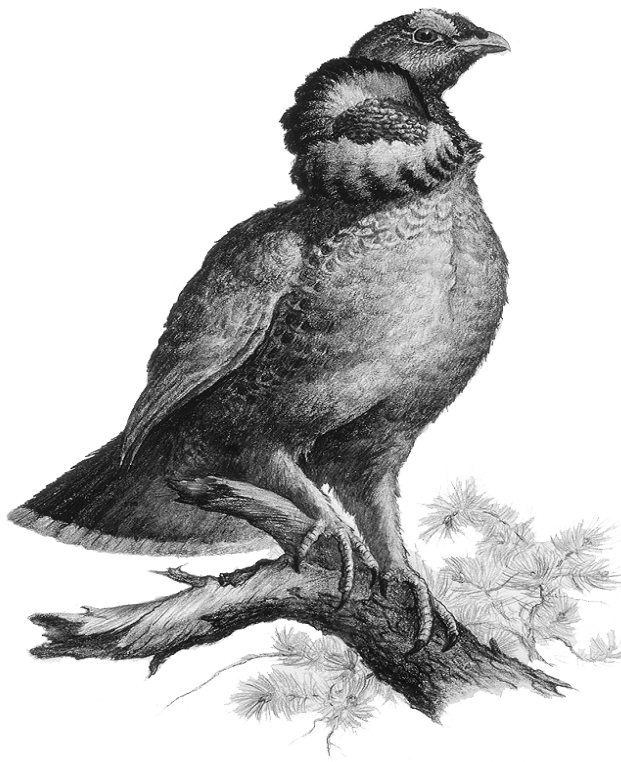


# UTAH UPLAND GAME ANNUAL REPORT 2019–20



CLARK BRONSON



Publication No. 20-22



# Utah Upland Game Annual Report 2019–20

Prepared by:

**Heather H. Bernales**  
Biometrician

**Avery Cook**  
Upland Game Project Leader

**Heather Talley**  
Upland Game Program Coordinator

and

**Blair Stringham**  
Migratory Game Bird Program Coordinator

Publication No. 20-22

Annual Performance Report for Federal Aid Project W-65-M-67 & 68

State of Utah  
Department of Natural Resources  
DIVISION OF WILDLIFE RESOURCES

**Michal D. Fowlks**  
Director

## TABLE OF CONTENTS

|   |     |
|---|-----|
| Definitions .....   | 1   |
| Introduction .....  | 2   |
| Methods .....   | 3   |
| Results .....   | 3   |
| American crow .....   | 8   |
| Band-tailed pigeon .....  | 13  |
| California quail .....  | 19  |
| Chukar partridge .....  | 25  |
| Cottontail rabbit .....   | 34  |
| Dove (mourning and white-winged) .....  | 43  |
| Forest grouse (dusky and ruffed) .....  | 50  |
| Gambel's quail.....   | 58  |
| Gray (Hungarian) partridge.....   | 66  |
| Ring-necked pheasant .....  | 72  |
| Sage-grouse (greater and Gunnison) .....  | 78  |
| Sandhill crane .....  | 100 |
| Sharp-tailed grouse .....   | 105 |
| Snowshoe hare .....   | 114 |
| White-tailed ptarmigan .....  | 120 |
| Wild turkey .....   | 126 |
| Appendix A: Weather conditions .....  | 142 |
| Appendix B: Hunter survey response summary .....  | 147 |
| Appendix C: License sales .....   | 150 |
| Appendix D: Permit numbers, season dates, bag and possession limits and areas open..... | 152 |

## 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, 2019 through June 30, 2020 (hereafter referred to as 2019–20). 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 2019–20 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., 2019 or 2020, respectively), while fall/winter seasons will have an overlapping year designation (e.g., 2019–20).

## 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 46<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 67 & 68. 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 2019–20 upland game hunting seasons, 2019 fall turkey season, 2020 spring turkey seasons, as well as inventory and trend surveys that took place from July 2019 through June 2020.

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.

## **RESULTS**

The percent of Utah residents who had any type of resident license valid for the 2019–20 upland game hunting season was 7% (U.S. Census Bureau’s 2019 Utah population estimate: 3,205,958). 270,257 resident and nonresident hunting and combination licenses were valid for the 2019–20 Utah upland game hunting seasons. 74,894 people were randomly selected for participation in the general upland game harvest survey, representing a 27.7% sample. These hunters were sent an email inviting them to participate in the Internet-based harvest survey. Of those hunters contacted, 8,606 (11%) submitted an online harvest survey. A random sample of 6,418 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 35,516 hunters went afield in 2019–20 in pursuit of various general upland game species. 13,045 hunters hunted wild turkey in spring 2020 and 5,113 hunters hunted wild turkey in fall 2019. Detailed information describing the upland game harvest can be found in the following tables. Regulations for the 2019–20 upland game and 2020 wild turkey hunting seasons were published in the 2019–20 Utah Upland Game and Turkey Guidebook.

Upland game survey methods and response rates, 2019–20.

| Species                                      | Survey method | Licenses / permits sold | Sample size |
|--|---------------|-------------------------|-------------|
| Band-tailed pigeon                           | Web/phone     | 165                     | 90          |
| General upland game                          | Web/phone     | 270257                  | 15024       |
| Greater sage-grouse                          | Web/phone     | 444                     | 265         |
| Sandhill crane                               | Web/phone     | 239                     | 177         |
| Sharp-tailed grouse                          | Web/phone     | 260                     | 147         |
| White-tailed ptarmigan                       | Web/phone     | 406                     | 129         |
| Wild turkey (fall 2019)                      | Web/phone     | 6167                    | 1602        |
| Wild turkey (spring 2020 limited entry/CWMU) | Web/phone     | 1368                    | 634         |
| Wild turkey (spring 2020 general season)     | Web/phone     | 12443                   | 3416        |

Summary of upland game harvest statistics, Utah 2019–20.

| Species                                      | Hunters<br>afield | Total<br>harvest | Hunter-days<br>afield | Bag per<br>hunter-day | Bag per hunter<br>per season |
|--|-------------------|------------------|-----------------------|-----------------------|------------------------------|
| American crow                                | 186               | 589              | 722                   | 0.8                   | 3.2                          |
| Band-tailed pigeon                           | 40                | 4                | 79                    | 0.1                   | 0.1                          |
| California quail                             | 1346              | 3459             | 4619                  | 0.7                   | 2.6                          |
| Chukar partridge                             | 6283              | 24732            | 32851                 | 0.8                   | 3.9                          |
| Cottontail rabbit                            | 6327              | 23111            | 31394                 | 0.7                   | 3.7                          |
| Dove   | 8233              | 82863            | 35039                 | 2.4                   | 10.1                         |
| Mourning                                     | —                 | 77741            | —                     | —                     | —                            |
| White-winged                                 | —                 | 2432             | —                     | —                     | —                            |
| Unknown                                      | —                 | 2688             | —                     | —                     | —                            |
| Forest grouse                                | 9100              | 42664            | 50022                 | 0.9                   | 4.7                          |
| Dusky  | —                 | 21123            | —                     | —                     | —                            |
| Ruffed                                       | —                 | 19685            | —                     | —                     | —                            |
| Unknown                                      | —                 | 1859             | —                     | —                     | —                            |
| Gambel's quail                               | 438               | 938              | 929                   | 1.0                   | 2.1                          |
| Gray (Hungarian) partridge                   | 577               | 1448             | 2268                  | 0.6                   | 2.5                          |
| Greater sage-grouse                          | 299               | 252              | 536                   | 0.5                   | 0.8                          |
| Ring-necked pheasant                         | 18635             | 48470            | 70345                 | 0.7                   | 2.6                          |
| Sandhill crane                               | 199               | 130              | 392                   | 0.3                   | 0.7                          |
| Sharp-tailed grouse                          | 113               | 51               | 215                   | 0.2                   | 0.5                          |
| Snowshoe hare                                | 1059              | 1481             | 4518                  | 0.3                   | 1.4                          |
| White-tailed ptarmigan                       | 145               | 69               | 535                   | 0.1                   | 0.5                          |
| Wild turkey (fall 2019)                      | 5113              | 2963             | 26574                 | 0.1                   | 0.6                          |
| Wild turkey (spring 2020 limited entry/CWMU) | 1235              | 724              | —                     | —                     | 0.6                          |
| Wild turkey (spring 2020 general season)     | 10589             | 2955             | —                     | —                     | 0.3                          |



Number of general upland game hunters afield by species or species group, Utah 2010–2020.

| Species                    | Year    |         |         |         |         |         |         |         |         |         |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                            | 2010–11 | 2011–12 | 2012–13 | 2013–14 | 2014–15 | 2015–16 | 2016–17 | 2017–18 | 2018–19 | 2019–20 |
| American crow              | —       | —       | —       | —       | 581     | 638     | 540     | 449     | 476     | 186     |
| California quail           | 1043    | 1082    | 1212    | 1006    | 1478    | 1201    | 1378    | 1223    | 1111    | 1346    |
| Chukar partridge           | 6272    | 5572    | 5448    | 5527    | 5678    | 7256    | 7940    | 6884    | 6539    | 6283    |
| Cottontail rabbit          | 7684    | 6189    | 6618    | 6519    | 6678    | 15448   | 12873   | 8478    | 8223    | 6327    |
| Dove                       | 11372   | 8891    | 9784    | 9367    | 8113    | 10451   | 11511   | 7617    | 9338    | 8233    |
| Forest grouse              | 10724   | 7941    | 9915    | 8888    | 8977    | 11052   | 12401   | 10336   | 10392   | 9100    |
| Gambel's quail             | 557     | 468     | 495     | 477     | **      | 724     | 539     | 847     | 869     | 438     |
| Gray (Hungarian) partridge | 1006    | 918     | 1119    | 574     | 765     | 751     | 1047    | 815     | 685     | 577     |
| Ring-necked pheasant       | 18103   | 14188   | 14315   | 15838   | 17074   | 19855   | 22299   | 22062   | 18582   | 18635   |
| Snowshoe hare              | 631     | 634     | 645     | 568     | 345     | 1192    | 1326    | 720     | 732     | 1059    |
| Total hunters*             | 35639   | 28617   | 29928   | 31330   | 32097   | 41340   | 43038   | 39371   | 36227   | 35516   |

\*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 2010–2020.

| Species                | Year    |         |         |         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                        | 2010–11 | 2011–12 | 2012–13 | 2013–14 | 2014–15 | 2015–16 | 2016–17 | 2017–18 | 2018–19 | 2019–20 |
| Band-tailed pigeon     | 51      | 90      | 70      | 54      | 44      | 44      | 16      | 31      | 80      | 40      |
| Greater sage-grouse    | 650     | 429     | 530     | 631     | 852     | 935     | 888     | 593     | 519     | 299     |
| Sandhill crane         | 253     | 202     | 167     | 117     | 88      | 122     | 105     | 295     | 268     | 199     |
| Sharp-tailed grouse    | 233     | 177     | 198     | 163     | 109     | 159     | 121     | 78      | 103     | 113     |
| White-tailed ptarmigan | 95      | 76      | 74      | 65      | 76      | 99      | 106     | 88      | 120     | 145     |
| Wild turkey (fall)     | —       | —       | —       | —       | 281     | 597     | 875     | 713     | 2756    | 1235    |
| Wild turkey (spring)   | 8291    | 7055    | 8354    | 9395    | 10232   | 11155   | 11060   | 11262   | 10783   | 10589   |

Percent of general upland game hunters afield who reported hunting each species or species group, Utah 2010–2020.

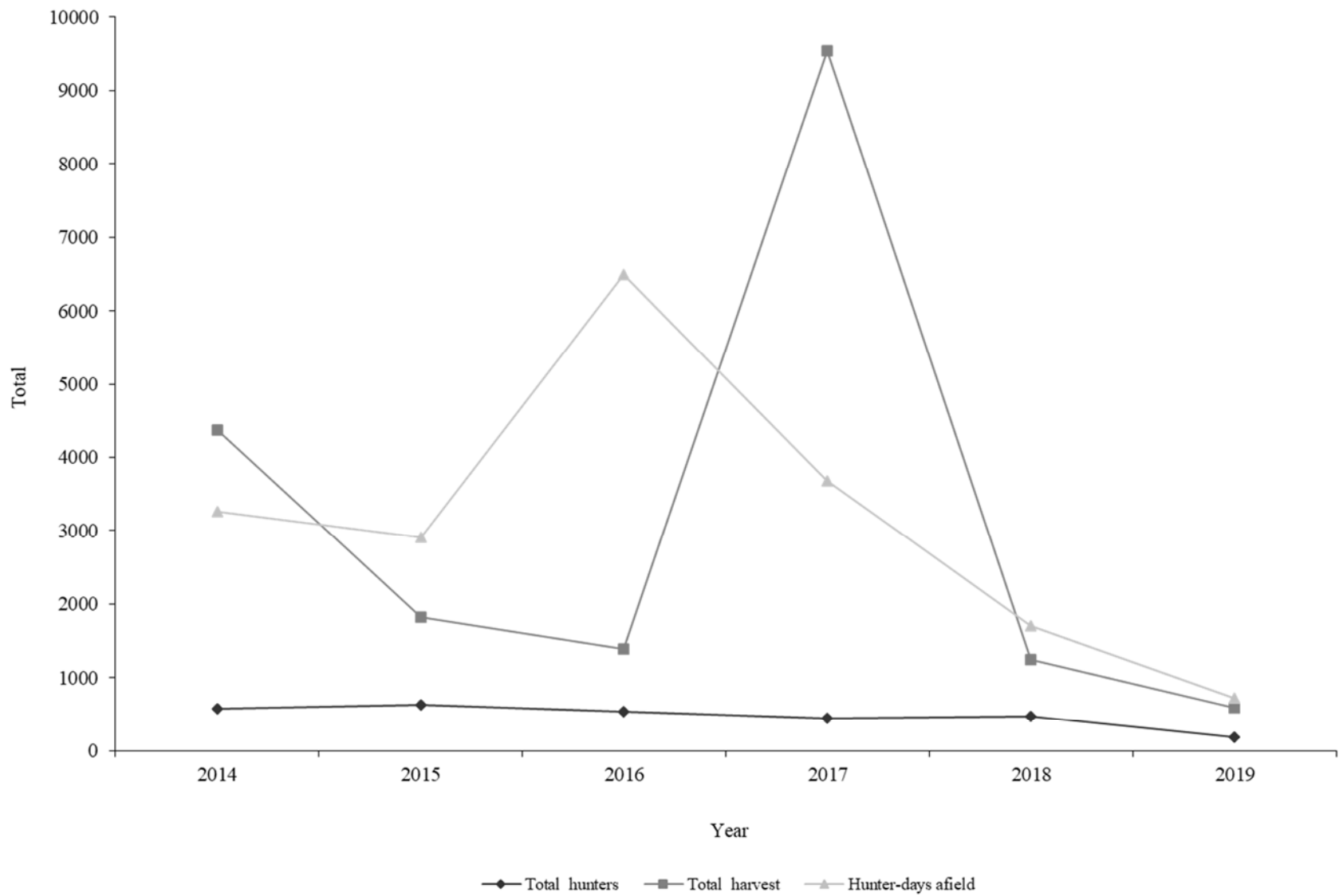
| Species                    | Year    |         |         |         |         |         |         |         |         |         |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                            | 2010–11 | 2011–12 | 2012–13 | 2013–14 | 2014–15 | 2015–16 | 2016–17 | 2017–18 | 2018–19 | 2019–20 |
| American crow              | —       | —       | —       | —       | 1.8     | 1.5     | 1.3     | 1.1     | 1.3     | 0.5     |
| California quail           | 4.5     | 5.4     | 5.7     | 4.7     | 4.6     | 3.3     | 3.2     | 3.1     | 3.1     | 3.8     |
| Chukar partridge           | 17.6    | 19.5    | 19.0    | 17.6    | 17.7    | 17.6    | 18.4    | 17.5    | 18.0    | 17.7    |
| Cottontail rabbit          | 21.6    | 21.6    | 23.1    | 20.8    | 20.8    | 37.4    | 29.9    | 21.5    | 22.7    | 17.8    |
| Dove                       | 31.9    | 31.1    | 34.2    | 29.9    | 25.3    | 25.3    | 26.7    | 19.3    | 25.8    | 23.2    |
| Forest grouse              | 30.1    | 27.7    | 34.6    | 28.4    | 28.0    | 26.7    | 28.8    | 26.3    | 28.7    | 25.6    |
| Gambel's quail             | 0.7     | 2.1     | 1.7     | 1.5     | *       | 1.5     | 1.3     | 2.2     | 1.9     | 1.2     |
| Gray (Hungarian) partridge | 2.8     | 3.2     | 3.9     | 1.8     | 2.4     | 1.8     | 2.4     | 2.1     | 1.9     | 1.6     |
| Ring-necked pheasant       | 50.8    | 49.6    | 50.0    | 50.6    | 53.2    | 48.0    | 51.8    | 56.0    | 51.3    | 52.5    |
| Snowshoe hare              | 1.8     | 2.2     | 2.3     | 1.8     | 1.1     | 2.9     | 3.1     | 1.8     | 2.0     | 3.0     |

\*Included with California quail.

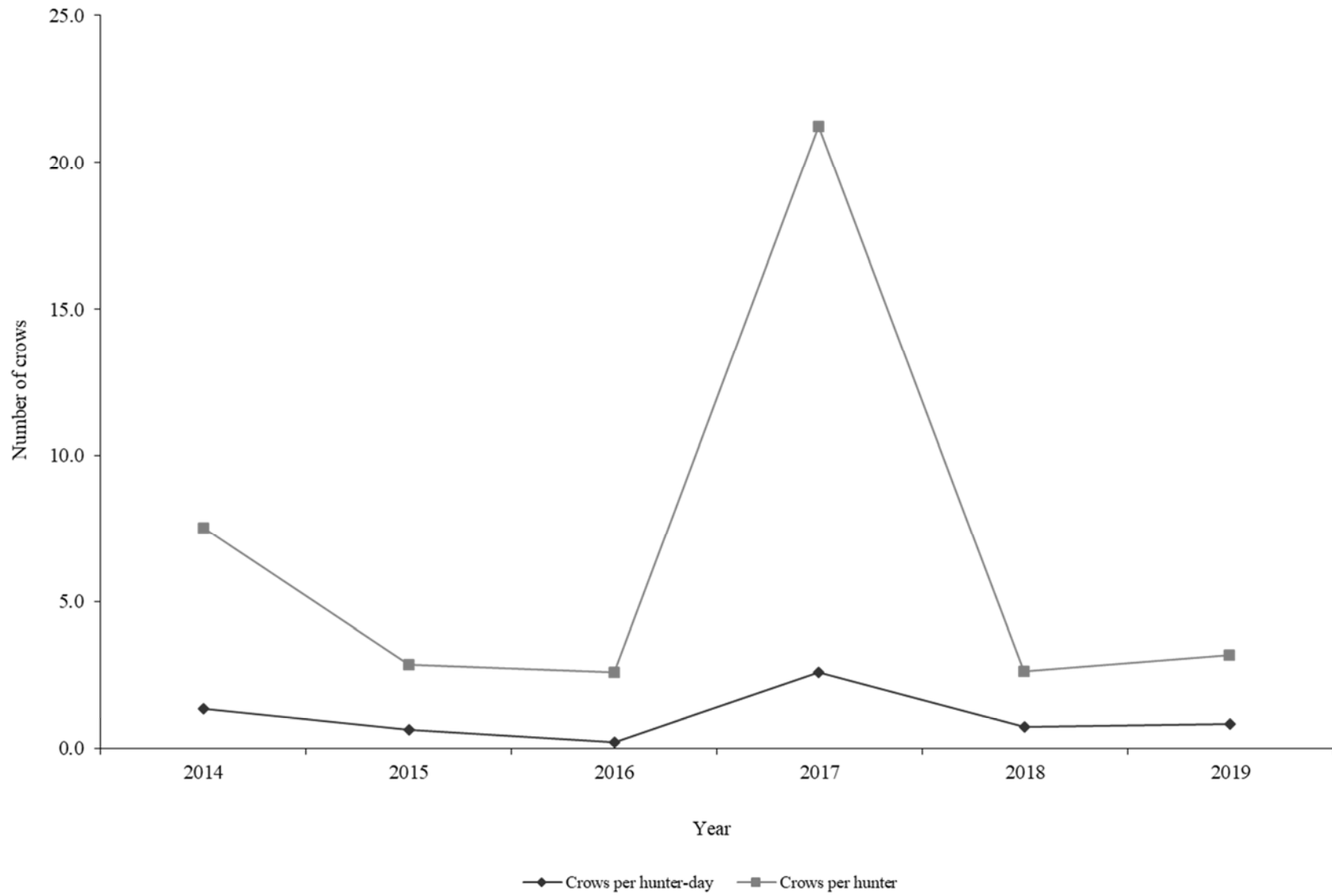
# AMERICAN CROW



Statewide trends in American crow harvest statistics, Utah 2014–2019.



Statewide trends in American crow hunter success, Utah 2014–2019.



American crow harvest statistics by region and county, Utah 2019.

| Region and county   | n  | Hunters<br>afield | Hunter-days<br>afield | Crow<br>bagged | Crow /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|----|-------------------|-----------------------|----------------|----------------------|---------------|--------------|
| Northern Region     |    |                   |                       |                |                      |               |              |
| Box Elder           | 2  | 7                 | 280                   | 0              | 0.0                  | 38.8          | 0.0          |
| Cache               | 3  | 11                | 12                    | 0              | 0.0                  | 1.7           | 0.0          |
| Davis               | 8  | 30                | 182                   | 418            | 2.3                  | 25.3          | 70.9         |
| Morgan              | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Rich                | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Summit              | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Weber               | 4  | 15                | 20                    | 20             | 1.0                  | 2.8           | 3.4          |
| Regional total      | 17 | 63                | 494                   | 438            | 0.9                  | 68.5          | 74.3         |
| Central Region      |    |                   |                       |                |                      |               |              |
| Juab                | 3  | 11                | 32                    | 16             | 0.5                  | 4.5           | 2.8          |
| Salt Lake           | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Sanpete             | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Tooele              | 1  | 4                 | 2                     | 0              | 0.0                  | 0.3           | 0.0          |
| Utah                | 6  | 22                | 75                    | 46             | 0.6                  | 10.4          | 7.8          |
| Wasatch             | 3  | 11                | 17                    | 23             | 1.4                  | 2.4           | 3.9          |
| Regional total      | 13 | 48                | 126                   | 85             | 0.7                  | 17.6          | 14.5         |
| Southern Region     |    |                   |                       |                |                      |               |              |
| Beaver              | 6  | 22                | 17                    | 3              | 0.2                  | 2.4           | 0.6          |
| Garfield            | 1  | 4                 | 20                    | 7              | 0.4                  | 2.8           | 1.1          |
| Iron                | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Kane                | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Millard             | 3  | 11                | 15                    | 23             | 1.5                  | 2.1           | 3.9          |
| Piute               | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Sevier              | 1  | 4                 | 2                     | 0              | 0.0                  | 0.3           | 0.0          |
| Washington          | 1  | 4                 | 5                     | 0              | 0.0                  | 0.7           | 0.0          |
| Wayne               | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Regional total      | 12 | 45                | 59                    | 33             | 0.6                  | 8.3           | 5.6          |
| Northeastern Region |    |                   |                       |                |                      |               |              |
| Daggett             | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Duchesne            | 5  | 19                | 15                    | 20             | 1.3                  | 2.1           | 3.4          |
| Uintah              | 1  | 4                 | 5                     | 7              | 1.4                  | 0.7           | 1.1          |
| Regional total      | 6  | 23                | 20                    | 27             | 1.4                  | 2.8           | 4.5          |
| Southeastern Region |    |                   |                       |                |                      |               |              |
| Carbon              | 1  | 4                 | 2                     | 3              | 1.5                  | 0.3           | 0.6          |
| Emery               | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| Grand               | 0  | 0                 | —                     | —              | —                    | 0.0           | 0.0          |
| San Juan            | 1  | 4                 | 2                     | 0              | 0.0                  | 0.3           | 0.0          |
| Regional total      | 2  | 8                 | 4                     | 3              | 0.8                  | 0.7           | 0.6          |
| Unknown             | 3  | 11                | 15                    | 3              | 0.2                  | 2.1           | 0.6          |
| Statewide total*    | 50 | 186               | 722                   | 589            | 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 American crow harvest statistics, Utah 2014–2019.

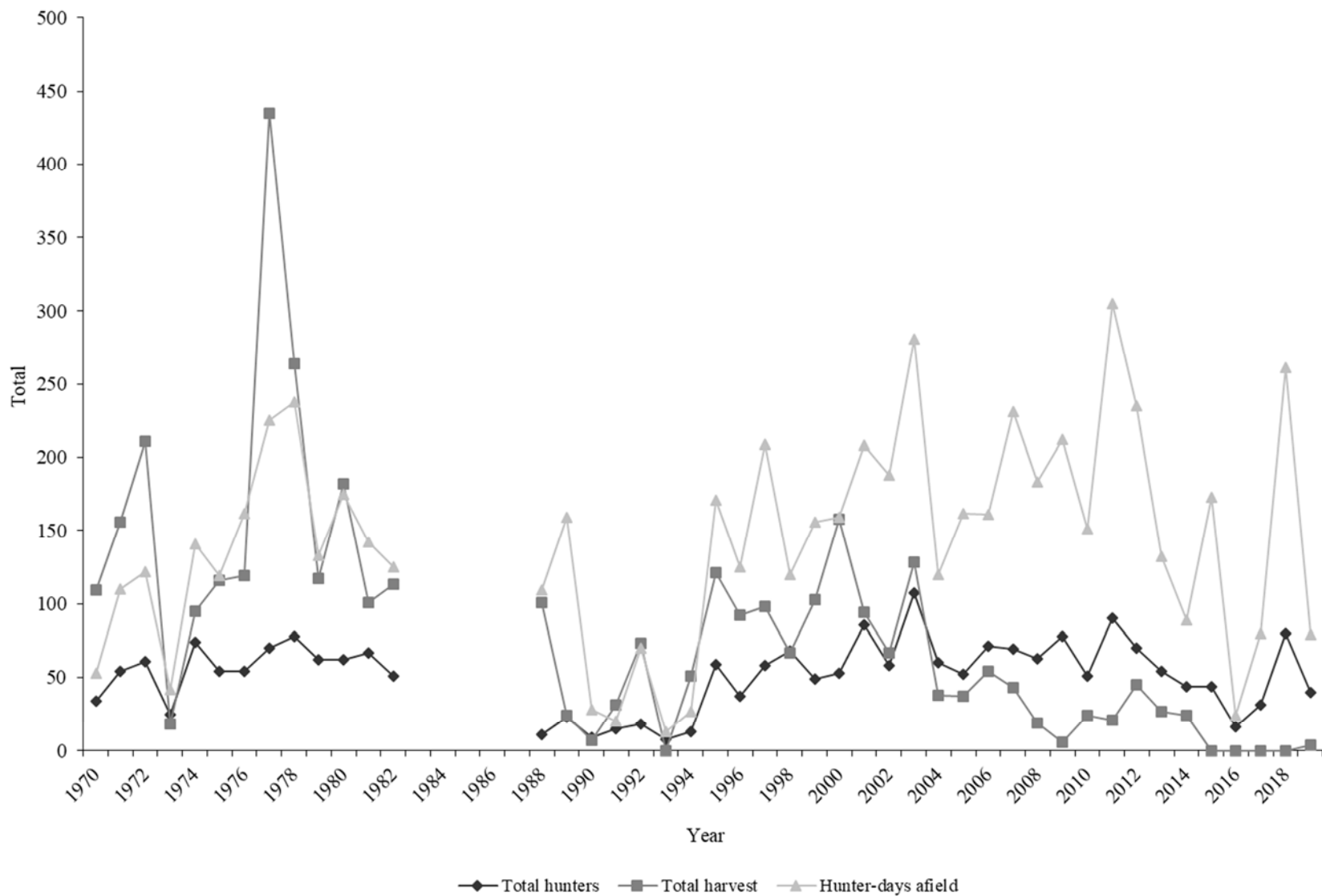
| Year                        | Total hunters | Total harvest | Hunter-days afield | Crow / hunter-day | Crows / hunter |
|-----------------------------|---------------|---------------|--------------------|-------------------|----------------|
| 2014                        | 581           | 4368          | 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            |
| 2019                        | 186           | 589           | 722                | 0.8               | 3.2            |
| Average (2014–2018)         | 478           | 3160          | 3129               | 1.1               | 7.4            |
| % change from previous year | -61           | -53           | -58                | 12                | 21             |
| % change from average       | -61           | -81           | -77                | -26               | -57            |

# BAND-TAILED PIGEON



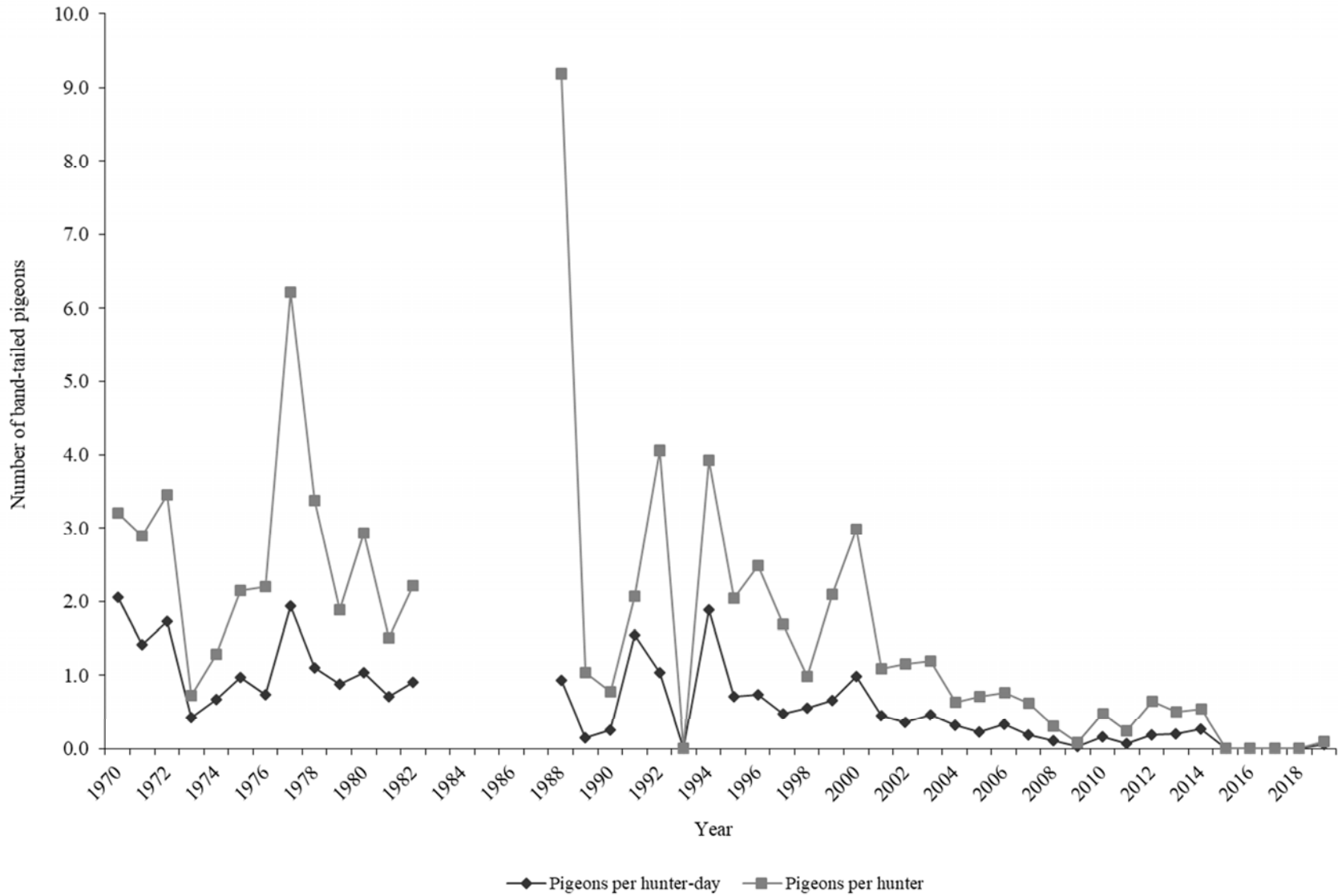


Statewide trends in band-tailed pigeon harvest statistics, Utah 1970–2019.



No data available 1983–1987.

Statewide trends in band-tailed pigeon hunter success, Utah 1970–2019.



No data available 1983–1987.

Band-tailed pigeon harvest statistics by region and county, Utah 2019.

| Region and county   | n  | Hunters<br>afield | Hunter-days<br>afield | Pigeons<br>bagged | Pigeons /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|----|-------------------|-----------------------|-------------------|-------------------------|---------------|--------------|
| Northern Region     |    |                   |                       |                   |                         |               |              |
| Box Elder           | 2  | 4                 | 7                     | 0                 | 0.0                     | 8.9           | 0.0          |
| Cache               | 2  | 4                 | 4                     | 0                 | 0.0                     | 5.1           | 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               | 1  | 2                 | 6                     | 0                 | 0.0                     | 7.6           | 0.0          |
| Regional total      | 5  | 10                | 17                    | 0                 | 0.0                     | 21.5          | 0.0          |
| Central Region      |    |                   |                       |                   |                         |               |              |
| Juab                | 0  | 0                 | —                     | —                 | —                       | 0.0           | 0.0          |
| Salt Lake           | 0  | 0                 | —                     | —                 | —                       | 0.0           | 0.0          |
| Sanpete             | 4  | 7                 | 13                    | 4                 | 0.3                     | 16.5          | 100.0        |
| Tooele              | 2  | 4                 | 7                     | 0                 | 0.0                     | 8.9           | 0.0          |
| Utah                | 4  | 7                 | 13                    | 0                 | 0.0                     | 16.5          | 0.0          |
| Wasatch             | 0  | 0                 | —                     | —                 | —                       | 0.0           | 0.0          |
| Regional total      | 10 | 18                | 33                    | 4                 | 0.1                     | 41.8          | 100.0        |
| 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             | 2  | 4                 | 6                     | 0                 | 0.0                     | 7.6           | 0.0          |
| Piute               | 1  | 2                 | 2                     | 0                 | 0.0                     | 2.5           | 0.0          |
| Sevier              | 0  | 0                 | —                     | —                 | —                       | 0.0           | 0.0          |
| Washington          | 1  | 2                 | 7                     | 0                 | 0.0                     | 8.9           | 0.0          |
| Wayne               | 0  | 0                 | —                     | —                 | —                       | 0.0           | 0.0          |
| Regional total      | 4  | 8                 | 15                    | 0                 | 0.0                     | 19.0          | 0.0          |
| Northeastern Region |    |                   |                       |                   |                         |               |              |
| Daggett             | 0  | 0                 | —                     | —                 | —                       | 0.0           | 0.0          |
| Duchesne            | 1  | 2                 | 2                     | 0                 | 0.0                     | 2.5           | 0.0          |
| Uintah              | 2  | 4                 | 11                    | 0                 | 0.0                     | 13.9          | 0.0          |
| Regional total      | 3  | 6                 | 13                    | 0                 | 0.0                     | 16.5          | 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             | 1  | 2                 | 2                     | 0                 | 0.0                     | 2.5           | 0.0          |
| Statewide total*    | 22 | 40                | 79                    | 4                 | 0.1                     | 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 band-tailed pigeon harvest statistics, Utah 1970–2019.

| 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              |

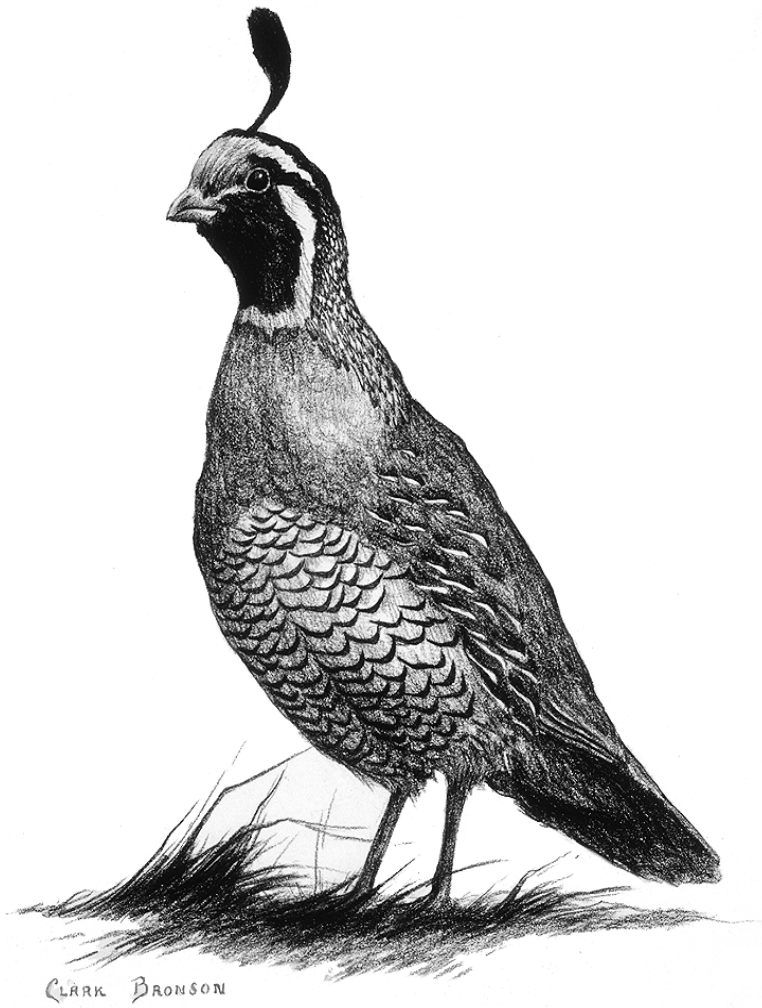
\*No data from 1983 to 1987.

Statewide band-tailed pigeon harvest statistics, Utah 1970–2019 (continued).

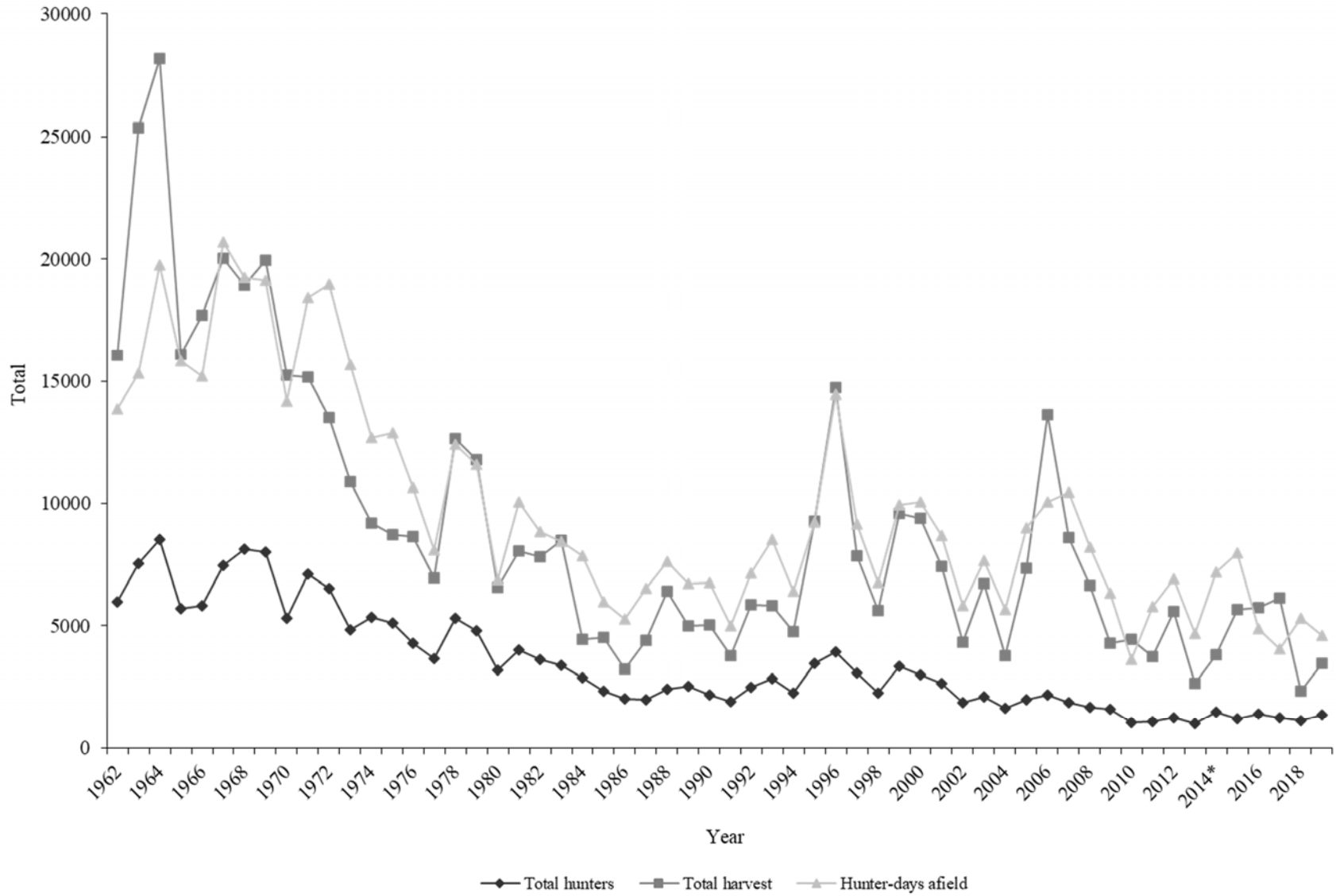
| Year                        | Total hunters | Total harvest* | Hunter-days afield | Pigeons / hunter-day | Pigeons / hunter |
|-----------------------------|---------------|----------------|--------------------|----------------------|------------------|
| 2014                        | 44            | 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              |
| 2019                        | 40            | 4              | 79                 | 0.1                  | 0.1              |
| Average (1970–2018)         | 52            | 80             | 143                | 0.6                  | 1.7              |
| % change from previous year | -50           | —              | -70                | —                    | —                |
| % change from average       | -23           | -95            | -45                | -92                  | -94              |

\*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

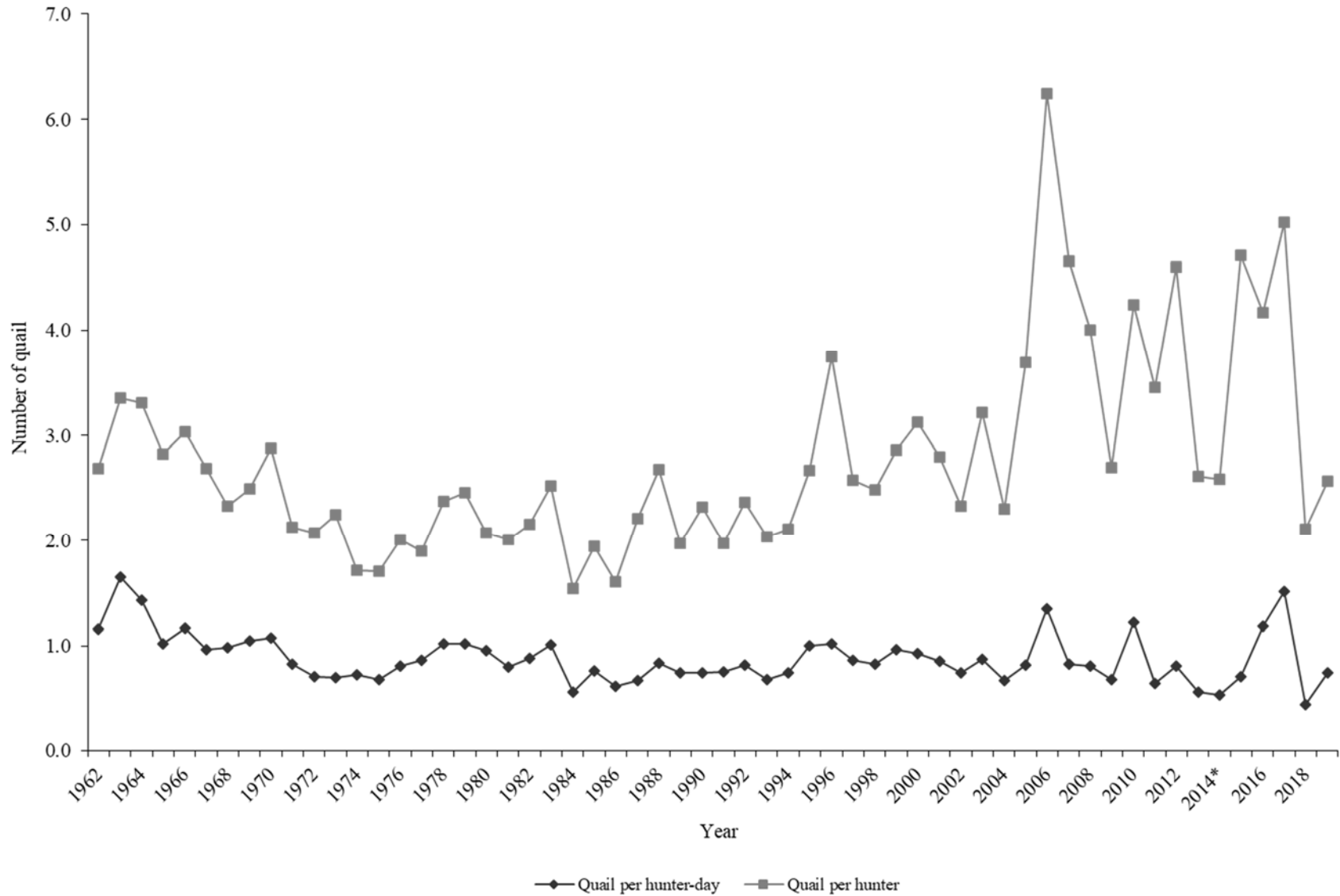


Statewide trends of California quail harvest statistics, Utah 1962–2019.



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

Statewide trends of California quail hunter success, Utah 1962–2019.



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



California quail harvest statistics by region and county, Utah 2019.

| Region and county   | n   | Hunters<br>afield | Hunter-days<br>afield | Quail<br>bagged | Quail /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|-----|-------------------|-----------------------|-----------------|-----------------------|---------------|--------------|
| Northern Region     |     |                   |                       |                 |                       |               |              |
| Box Elder           | 3   | 39                | 69                    | 58              | 0.8                   | 1.5           | 1.7          |
| Cache               | 1   | 13                | 11                    | 0               | 0.0                   | 0.2           | 0.0          |
| Davis               | 3   | 39                | 46                    | 29              | 0.6                   | 1.0           | 0.8          |
| Morgan              | 2   | 26                | 23                    | 14              | 0.6                   | 0.5           | 0.4          |
| Rich                | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Summit              | 2   | 26                | 57                    | 0               | 0.0                   | 1.2           | 0.0          |
| Weber               | 16  | 209               | 446                   | 622             | 1.4                   | 9.7           | 18.0         |
| Regional total      | 27  | 352               | 652                   | 723             | 1.1                   | 14.1          | 20.9         |
| Central Region      |     |                   |                       |                 |                       |               |              |
| Juab                | 1   | 13                | 23                    | 0               | 0.0                   | 0.5           | 0.0          |
| Salt Lake           | 1   | 13                | 11                    | 0               | 0.0                   | 0.2           | 0.0          |
| Sanpete             | 2   | 26                | 57                    | 29              | 0.5                   | 1.2           | 0.8          |
| Tooele              | 4   | 52                | 412                   | 145             | 0.4                   | 8.9           | 4.2          |
| Utah                | 18  | 235               | 846                   | 666             | 0.8                   | 18.3          | 19.2         |
| Wasatch             | 1   | 13                | 46                    | 43              | 0.9                   | 1.0           | 1.3          |
| Regional total      | 27  | 352               | 1395                  | 883             | 0.6                   | 30.2          | 25.5         |
| Southern Region     |     |                   |                       |                 |                       |               |              |
| Beaver              | 2   | 26                | 57                    | 87              | 1.5                   | 1.2           | 2.5          |
| Garfield            | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Iron                | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Kane                | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Millard             | 3   | 39                | 57                    | 14              | 0.3                   | 1.2           | 0.4          |
| Piute               | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Sevier              | 5   | 65                | 332                   | 159             | 0.5                   | 7.2           | 4.6          |
| Washington          | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Wayne               | 1   | 13                | 34                    | 29              | 0.9                   | 0.7           | 0.8          |
| Regional total      | 11  | 143               | 480                   | 289             | 0.6                   | 10.4          | 8.4          |
| Northeastern Region |     |                   |                       |                 |                       |               |              |
| Daggett             | 1   | 13                | 34                    | 29              | 0.9                   | 0.7           | 0.8          |
| Duchesne            | 18  | 235               | 743                   | 868             | 1.2                   | 16.1          | 25.1         |
| Uintah              | 13  | 170               | 434                   | 434             | 1.0                   | 9.4           | 12.6         |
| Regional total      | 32  | 418               | 1211                  | 1331            | 1.1                   | 26.2          | 38.5         |
| Southeastern Region |     |                   |                       |                 |                       |               |              |
| Carbon              | 1   | 13                | 57                    | 29              | 0.5                   | 1.2           | 0.8          |
| Emery               | 6   | 78                | 766                   | 188             | 0.3                   | 16.6          | 5.4          |
| Grand               | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| San Juan            | 0   | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Regional total      | 7   | 91                | 823                   | 217             | 0.3                   | 17.8          | 6.3          |
| Unknown             | 5   | 65                | 57                    | 14              | 0.3                   | 1.2           | 0.4          |
| Statewide total*    | 103 | 1346              | 4619                  | 3459            | 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 California quail harvest statistics, Utah 1962–2019.

| 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 1962–2019 (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            |
| 2019                        | 1346          | 3459          | 4619               | 0.7                | 2.6            |
| Average (1951–2018)         | 3416          | 8997          | 9811               | 0.9                | 2.8            |
| % change from previous year | 21            | 48            | -13                | 70                 | 22             |
| % change from average       | -61           | -62           | -53                | -15                | -8             |

\*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                   |

\*Aerial flights for chukar partridge were discontinued in 2019.

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

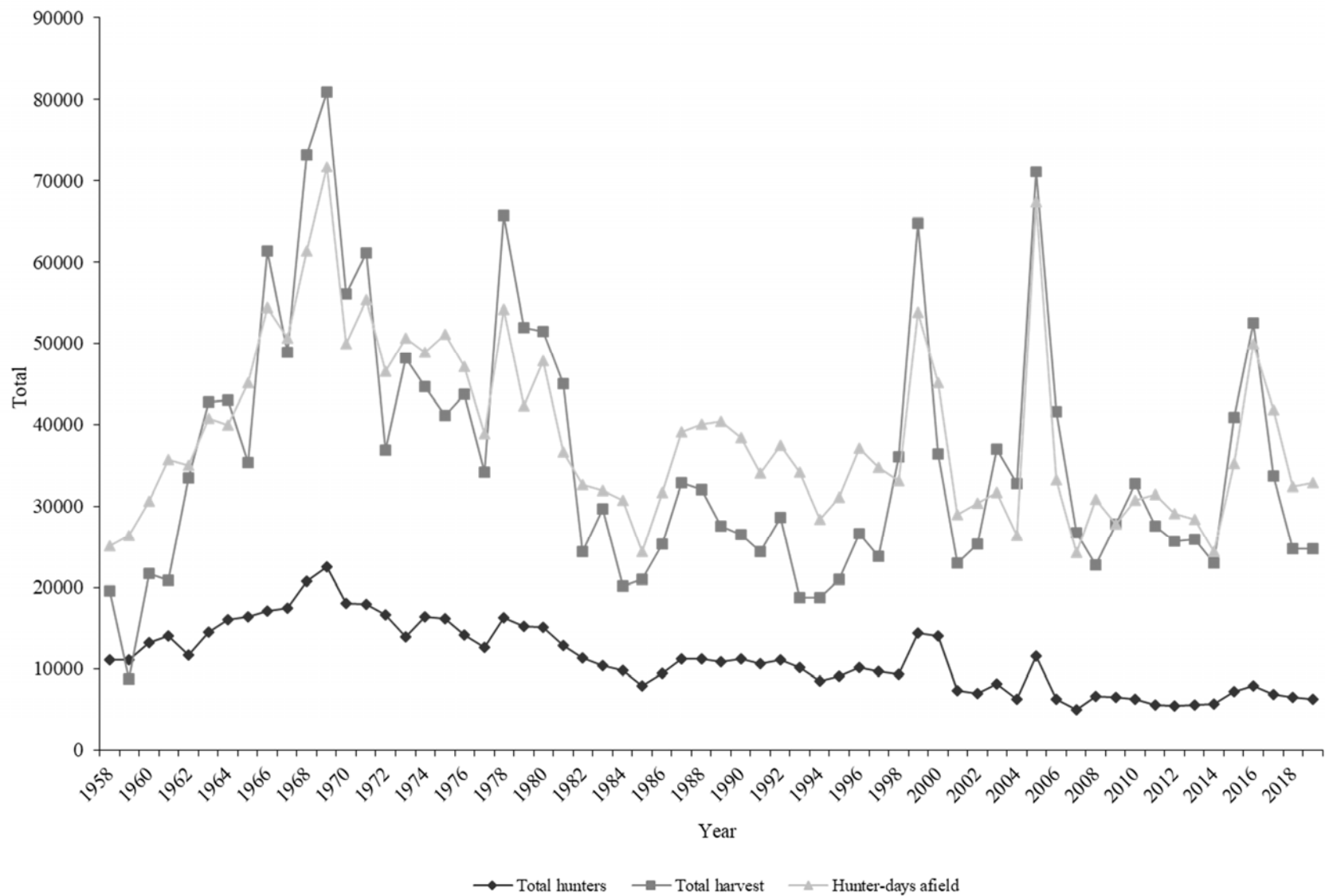
| Year                        | Coveys flushed | Total chukars observed | Square miles surveyed | Chukars / square mile |
|-----------------------------|----------------|------------------------|-----------------------|-----------------------|
| 2009                        | 5              | 41                     | 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                   |

\*Aerial flights for chukar partridge were discontinued in 2019.

Chukar partridge waterhole counts, Washington County, Utah 2015–2019.

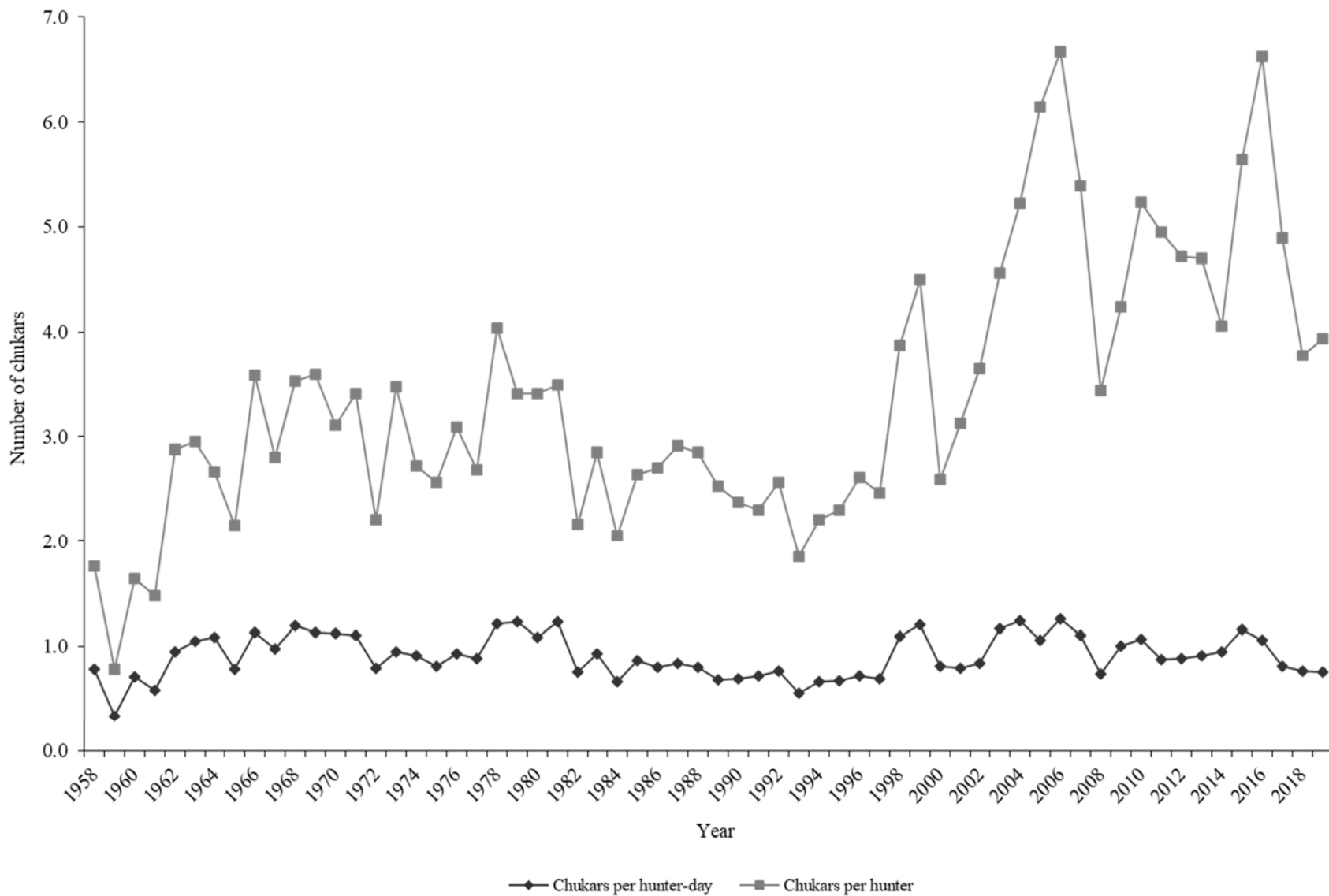
| Year                           | Total young | Total adults | Total chukars | Young/100 adults |
|--------------------------------|-------------|--------------|---------------|------------------|
| 2015                           | 239         | 92           | 331           | 260              |
| 2016                           | 111         | 84           | 195           | 132              |
| 2017                           | 371         | 102          | 473           | 364              |
| 2018                           | 14          | 49           | 63            | 29               |
| 2019                           | 130         | 38           | 168           | 342              |
| Average<br>(2009–2018)         | 184         | 82           | 266           | 196              |
| % change from<br>previous year | 829         | -22          | 167           | 1098             |
| % change from<br>average       | -29         | -54          | -37           | 75               |

Statewide trends of chukar partridge harvest statistics, Utah 1958–59 to 2019–2020.





Statewide trends of chukar partridge hunter success, Utah 1958–59 to 2019–2020.



Chukar partridge harvest statistics by region and county, Utah 2019–2020.

| Region and county   | n   | Hunters<br>afield | Hunter-days<br>afield | Chukars<br>bagged | Chukars /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|-----|-------------------|-----------------------|-------------------|-------------------------|---------------|--------------|
| Northern Region     |     |                   |                       |                   |                         |               |              |
| Box Elder           | 60  | 863               | 4507                  | 3452              | 0.8                     | 13.7          | 14.0         |
| Cache               | 20  | 288               | 756                   | 584               | 0.8                     | 2.3           | 2.4          |
| Davis               | 7   | 101               | 435                   | 177               | 0.4                     | 1.3           | 0.7          |
| Morgan              | 8   | 115               | 563                   | 513               | 0.9                     | 1.7           | 2.1          |
| Rich                | 5   | 72                | 193                   | 124               | 0.6                     | 0.6           | 0.5          |
| Summit              | 6   | 86                | 418                   | 230               | 0.6                     | 1.3           | 0.9          |
| Weber               | 9   | 129               | 258                   | 106               | 0.4                     | 0.8           | 0.4          |
| Regional total      | 115 | 1654              | 7130                  | 5186              | 0.7                     | 21.7          | 21.0         |
| Central Region      |     |                   |                       |                   |                         |               |              |
| Juab                | 50  | 719               | 2833                  | 2567              | 0.9                     | 8.6           | 10.4         |
| Salt Lake           | 2   | 29                | 80                    | 35                | 0.4                     | 0.2           | 0.1          |
| Sanpete             | 18  | 259               | 1465                  | 1257              | 0.9                     | 4.5           | 5.1          |
| Tooele              | 83  | 1193              | 5810                  | 3753              | 0.6                     | 17.7          | 15.2         |
| Utah                | 77  | 1107              | 4829                  | 3753              | 0.8                     | 14.7          | 15.2         |
| Wasatch             | 4   | 58                | 113                   | 106               | 0.9                     | 0.3           | 0.4          |
| Regional total      | 234 | 3365              | 15130                 | 11471             | 0.8                     | 46.1          | 46.4         |
| Southern Region     |     |                   |                       |                   |                         |               |              |
| Beaver              | 11  | 158               | 628                   | 850               | 1.4                     | 1.9           | 3.4          |
| Garfield            | 5   | 72                | 290                   | 71                | 0.2                     | 0.9           | 0.3          |
| Iron                | 5   | 72                | 193                   | 389               | 2.0                     | 0.6           | 1.6          |
| Kane                | 2   | 29                | 258                   | 0                 | 0.0                     | 0.8           | 0.0          |
| Millard             | 27  | 388               | 1416                  | 1186              | 0.8                     | 4.3           | 4.8          |
| Piute               | 8   | 115               | 515                   | 443               | 0.9                     | 1.6           | 1.8          |
| Sevier              | 35  | 503               | 2495                  | 1806              | 0.7                     | 7.6           | 7.3          |
| Washington          | 24  | 345               | 1320                  | 1045              | 0.8                     | 4.0           | 4.2          |
| Wayne               | 2   | 29                | 80                    | 71                | 0.9                     | 0.2           | 0.3          |
| Regional total      | 119 | 1711              | 7195                  | 5861              | 0.8                     | 21.9          | 23.7         |
| Northeastern Region |     |                   |                       |                   |                         |               |              |
| Daggett             | 3   | 43                | 64                    | 0                 | 0.0                     | 0.2           | 0.0          |
| Duchesne            | 11  | 158               | 531                   | 283               | 0.5                     | 1.6           | 1.1          |
| Uintah              | 6   | 86                | 113                   | 71                | 0.6                     | 0.3           | 0.3          |
| Regional total      | 20  | 287               | 708                   | 354               | 0.5                     | 2.2           | 1.4          |
| Southeastern Region |     |                   |                       |                   |                         |               |              |
| Carbon              | 16  | 230               | 1094                  | 673               | 0.6                     | 3.3           | 2.7          |
| Emery               | 8   | 115               | 483                   | 230               | 0.5                     | 1.5           | 0.9          |
| Grand               | 4   | 58                | 193                   | 283               | 1.5                     | 0.6           | 1.1          |
| San Juan            | 2   | 29                | 193                   | 18                | 0.1                     | 0.6           | 0.1          |
| Regional total      | 30  | 432               | 1963                  | 1204              | 0.6                     | 6.0           | 4.9          |
| Unknown             | 13  | 187               | 724                   | 655               | 0.9                     | 2.2           | 2.6          |
| Statewide total*    | 437 | 6283              | 32851                 | 24732             | 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 2019–2020.

| 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 2019–2020 (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              |
| 2019–20                     | 6283          | 24732         | 32851              | 0.8                  | 3.9              |
| Average (1958–2018)         | 11293         | 35941         | 38742              | 0.9                  | 3.4              |
| % change from previous year | -4            | 0             | 1                  | -1                   | 4                |
| % change from average       | -44           | -31           | -15                | -17                  | 17               |

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



CLARK BRONSON

Statewide trends of cottontail rabbit summer roadside counts, Utah 1967–2019.

| 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 1967–2019 (continued).

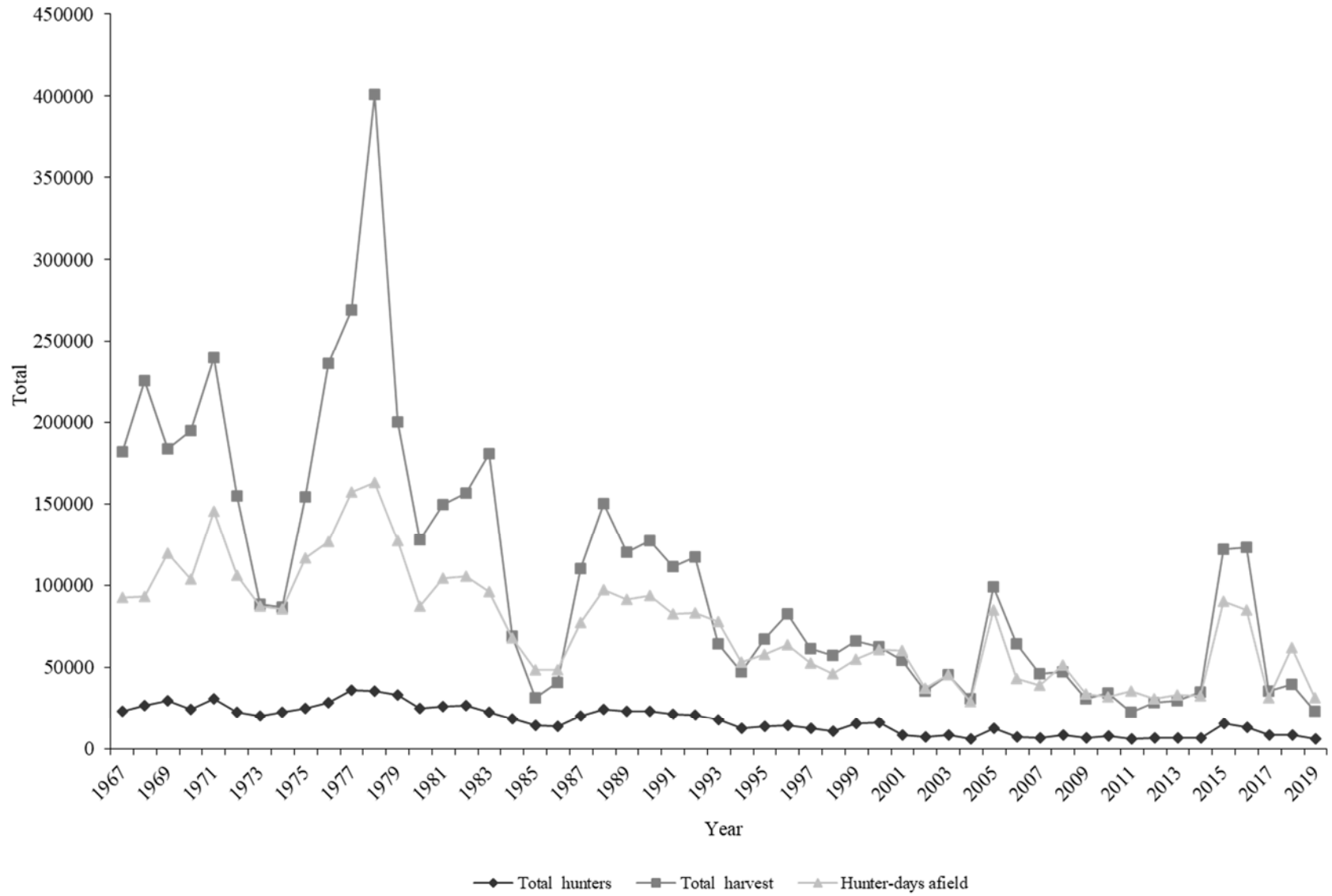
| Year                           | Miles driven | Total rabbits observed | Young / 100 adults | Rabbits / mile |
|--------------------------------|--------------|------------------------|--------------------|----------------|
| 2013                           | 1416         | 453                    | 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           |
| 2019                           | 1444         | 162                    | 50                 | 0.11           |
| Average<br>(1967–2018)         | 1173         | 423                    | 70                 | 0.35           |
| % change from<br>previous year | 6            | -31                    | 100                | -67            |
| % change from<br>average       | 23           | -62                    | -28                | -69            |

Cottontail rabbit summer roadside count summary, Utah 2019.

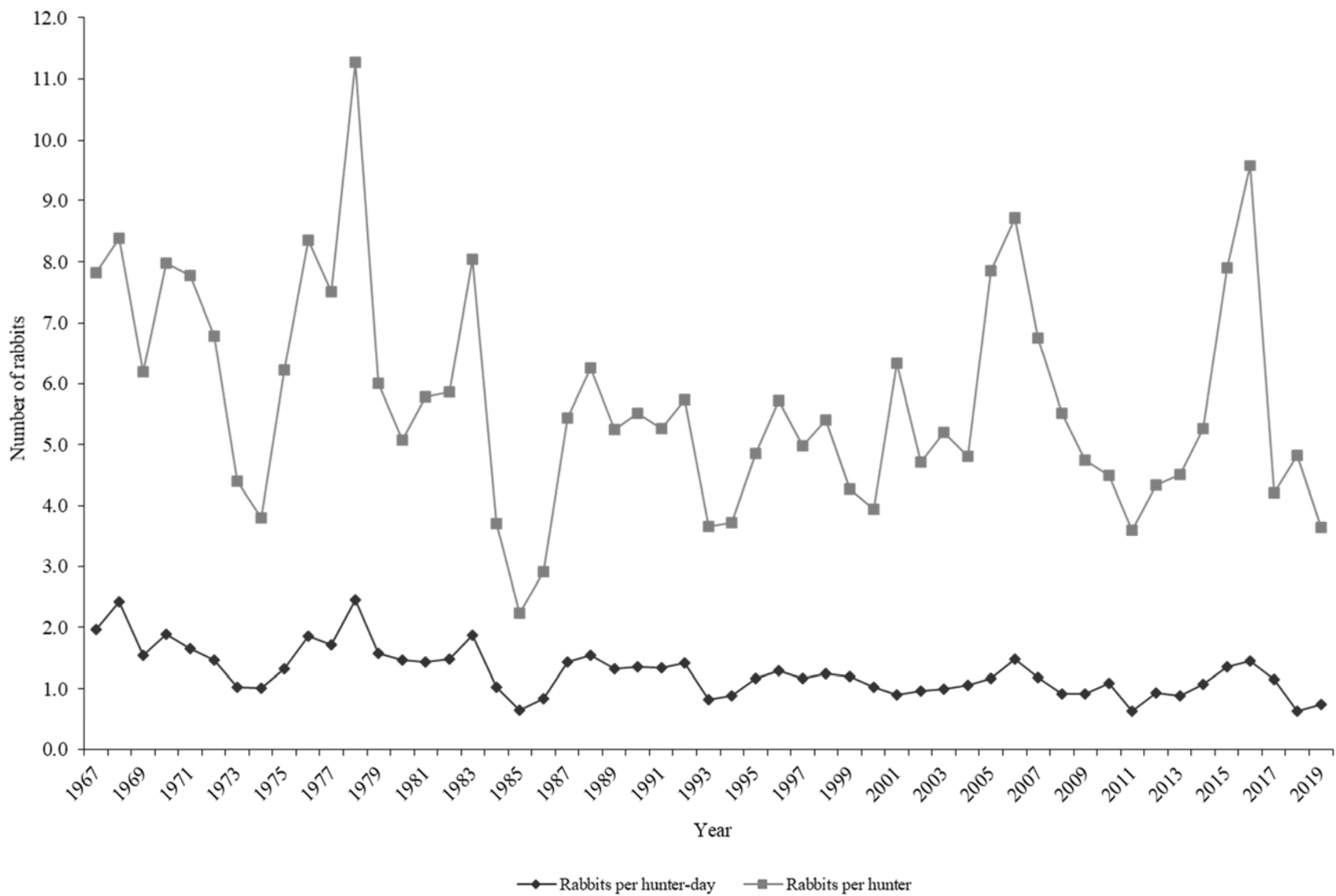
| Region and county   | Miles driven | Rabbits observed |       |              |       | Young / 100 adults | Rabbits / mile |
|---------------------|--------------|------------------|-------|--------------|-------|--------------------|----------------|
|                     |              | Adults           | Young | Unclassified | Total |                    |                |
| Northern Region     |              |                  |       |              |       |                    |                |
| Box Elder           | 122          | 0                | 0     | 0            | 0     | —                  | 0.00           |
| Cache               | 0            | —                | —     | —            | —     | —                  | —              |
| Davis               | 0            | —                | —     | —            | —     | —                  | —              |
| Morgan              | 0            | —                | —     | —            | —     | —                  | —              |
| Rich                | 90           | 0                | 0     | 0            | 0     | —                  | 0.00           |
| Summit              | 0            | —                | —     | —            | —     | —                  | —              |
| Weber               | 0            | —                | —     | —            | —     | —                  | —              |
| Regional total      | 212          | 0                | 0     | 0            | 0     | —                  | 0.00           |
| Central Region      |              |                  |       |              |       |                    |                |
| Juab                | 0            | —                | —     | —            | —     | —                  | —              |
| Salt Lake           | 0            | —                | —     | —            | —     | —                  | —              |
| Sanpete             | 142          | 3                | 0     | 1            | 4     | 0.0                | 0.03           |
| Tooele              | 90           | 2                | 1     | 0            | 3     | 50.0               | 0.03           |
| Utah                | 0            | —                | —     | —            | —     | —                  | —              |
| Wasatch             | 0            | —                | —     | —            | —     | —                  | —              |
| Regional total      | 232          | 5                | 1     | 1            | 7     | 20.0               | 0.03           |
| Southern Region     |              |                  |       |              |       |                    |                |
| Beaver              | 0            | —                | —     | —            | —     | —                  | —              |
| Garfield            | 85           | 0                | 1     | 0            | 1     | —                  | 0.01           |
| Iron                | 90           | 36               | 14    | 0            | 50    | 38.9               | 0.56           |
| Kane                | 0            | —                | —     | —            | —     | —                  | —              |
| Millard             | 90           | 4                | 1     | 0            | 5     | 25.0               | 0.06           |
| Piute               | 0            | —                | —     | —            | —     | —                  | —              |
| Sevier              | 90           | 1                | 0     | 1            | 2     | 0.0                | 0.02           |
| Washington          | 0            | —                | —     | —            | —     | —                  | —              |
| Wayne               | 90           | 4                | 9     | 0            | 13    | 225.0              | 0.14           |
| Regional total      | 445          | 45               | 25    | 1            | 71    | 55.6               | 0.16           |
| Northeastern Region |              |                  |       |              |       |                    |                |
| Daggett             | 105          | 16               | 0     | 0            | 16    | 0.0                | 0.15           |
| Duchesne            | 90           | 2                | 1     | 0            | 3     | 50.0               | 0.03           |
| Uintah              | 90           | 5                | 0     | 0            | 5     | 0.0                | 0.06           |
| Regional total      | 285          | 23               | 1     | 0            | 24    | 4.3                | 0.08           |
| Southeastern Region |              |                  |       |              |       |                    |                |
| Carbon              | 90           | 8                | 2     | 0            | 10    | 25.0               | 0.11           |
| Emery               | 90           | 14               | 15    | 10           | 39    | 107.1              | 0.43           |
| Grand               | 0            | —                | —     | —            | —     | —                  | —              |
| San Juan            | 90           | 5                | 6     | 0            | 11    | 120.0              | 0.12           |
| Regional total      | 270          | 27               | 23    | 10           | 60    | 85.2               | 0.22           |
| Statewide total     | 1444         | 100              | 50    | 12           | 162   | 50.0               | 0.11           |



Statewide trends of cottontail rabbit harvest statistics, Utah 1967–68 to 2019–2020.



Statewide trends of cottontail rabbit hunter success, Utah 1967–68 to 2019–2020.



Cottontail rabbit harvest statistics by region and county, Utah 2019–2020.

| Region and county   | n   | Hunters<br>afield | Hunter-days<br>afield | Rabbits<br>bagged | Rabbits /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|-----|-------------------|-----------------------|-------------------|-------------------------|---------------|--------------|
| Northern Region     |     |                   |                       |                   |                         |               |              |
| Box Elder           | 55  | 829               | 3173                  | 1627              | 0.5                     | 10.1          | 7.0          |
| Cache               | 15  | 226               | 1259                  | 136               | 0.1                     | 4.0           | 0.6          |
| Davis               | 5   | 75                | 89                    | 77                | 0.9                     | 0.3           | 0.3          |
| Morgan              | 5   | 75                | 745                   | 368               | 0.5                     | 2.4           | 1.6          |
| Rich                | 7   | 105               | 425                   | 426               | 1.0                     | 1.4           | 1.8          |
| Summit              | 7   | 105               | 408                   | 77                | 0.2                     | 1.3           | 0.3          |
| Weber               | 2   | 30                | 53                    | 116               | 2.2                     | 0.2           | 0.5          |
| Regional total      | 96  | 1445              | 6152                  | 2827              | 0.5                     | 19.6          | 12.2         |
| Central Region      |     |                   |                       |                   |                         |               |              |
| Juab                | 25  | 377               | 1684                  | 1589              | 0.9                     | 5.4           | 6.9          |
| Salt Lake           | 3   | 45                | 106                   | 213               | 2.0                     | 0.3           | 0.9          |
| Sanpete             | 10  | 151               | 284                   | 329               | 1.2                     | 0.9           | 1.4          |
| Tooele              | 52  | 783               | 3634                  | 2363              | 0.7                     | 11.6          | 10.2         |
| Utah                | 43  | 648               | 2145                  | 2654              | 1.2                     | 6.8           | 11.5         |
| Wasatch             | 4   | 60                | 514                   | 542               | 1.1                     | 1.6           | 2.3          |
| Regional total      | 137 | 2064              | 8367                  | 7690              | 0.9                     | 26.7          | 33.3         |
| Southern Region     |     |                   |                       |                   |                         |               |              |
| Beaver              | 11  | 166               | 479                   | 349               | 0.7                     | 1.5           | 1.5          |
| Garfield            | 8   | 121               | 603                   | 368               | 0.6                     | 1.9           | 1.6          |
| Iron                | 17  | 256               | 1613                  | 1685              | 1.0                     | 5.1           | 7.3          |
| Kane                | 5   | 75                | 266                   | 136               | 0.5                     | 0.8           | 0.6          |
| Millard             | 15  | 226               | 798                   | 426               | 0.5                     | 2.5           | 1.8          |
| Piute               | 2   | 30                | 18                    | 136               | 7.6                     | 0.1           | 0.6          |
| Sevier              | 9   | 136               | 443                   | 116               | 0.3                     | 1.4           | 0.5          |
| Washington          | 21  | 316               | 1436                  | 1065              | 0.7                     | 4.6           | 4.6          |
| Wayne               | 7   | 105               | 337                   | 426               | 1.3                     | 1.1           | 1.8          |
| Regional total      | 95  | 1431              | 5993                  | 4707              | 0.8                     | 19.1          | 20.4         |
| Northeastern Region |     |                   |                       |                   |                         |               |              |
| Daggett             | 14  | 211               | 1117                  | 1685              | 1.5                     | 3.6           | 7.3          |
| Duchesne            | 33  | 497               | 1542                  | 1356              | 0.9                     | 4.9           | 5.9          |
| Uintah              | 28  | 422               | 2393                  | 814               | 0.3                     | 7.6           | 3.5          |
| Regional total      | 75  | 1130              | 5052                  | 3855              | 0.8                     | 16.1          | 16.7         |
| Southeastern Region |     |                   |                       |                   |                         |               |              |
| Carbon              | 21  | 316               | 1418                  | 1201              | 0.8                     | 4.5           | 5.2          |
| Emery               | 12  | 181               | 798                   | 601               | 0.8                     | 2.5           | 2.6          |
| Grand               | 8   | 121               | 904                   | 368               | 0.4                     | 2.9           | 1.6          |
| San Juan            | 14  | 211               | 2092                  | 678               | 0.3                     | 6.7           | 2.9          |
| Regional total      | 55  | 829               | 5212                  | 2848              | 0.5                     | 16.6          | 12.3         |
| Unknown             | 12  | 181               | 620                   | 1182              | 1.9                     | 2.0           | 5.1          |
| Statewide total*    | 420 | 6327              | 31394                 | 23111             | 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.

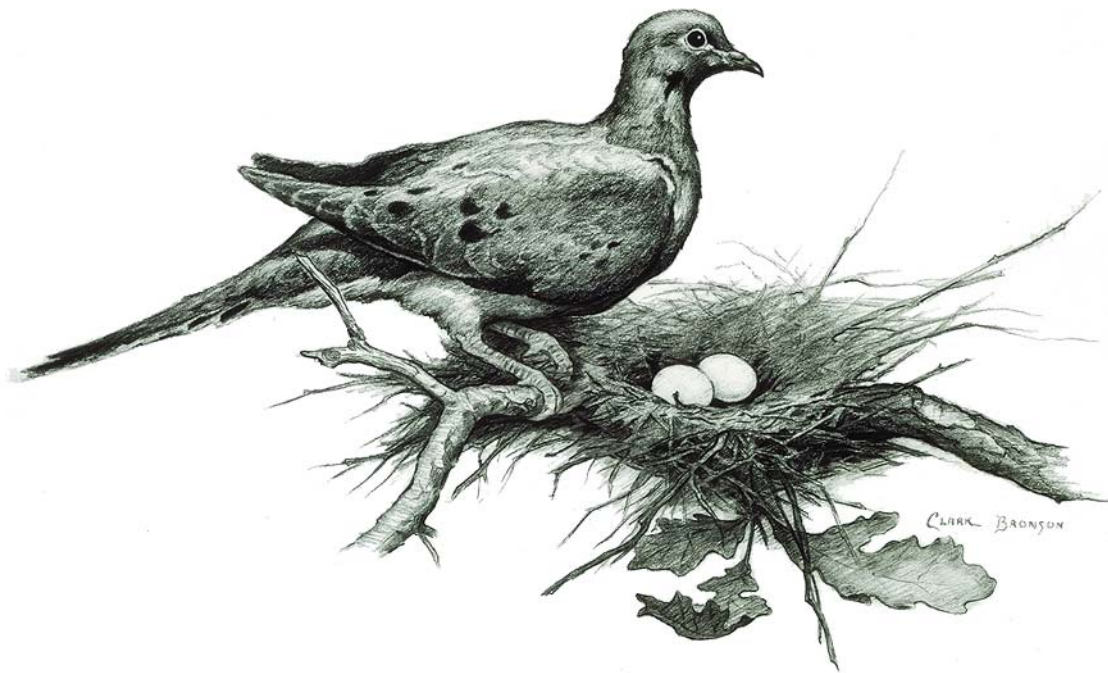
Statewide cottontail rabbit harvest statistics, Utah 1967–68 to 2019–2020.

| 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              |

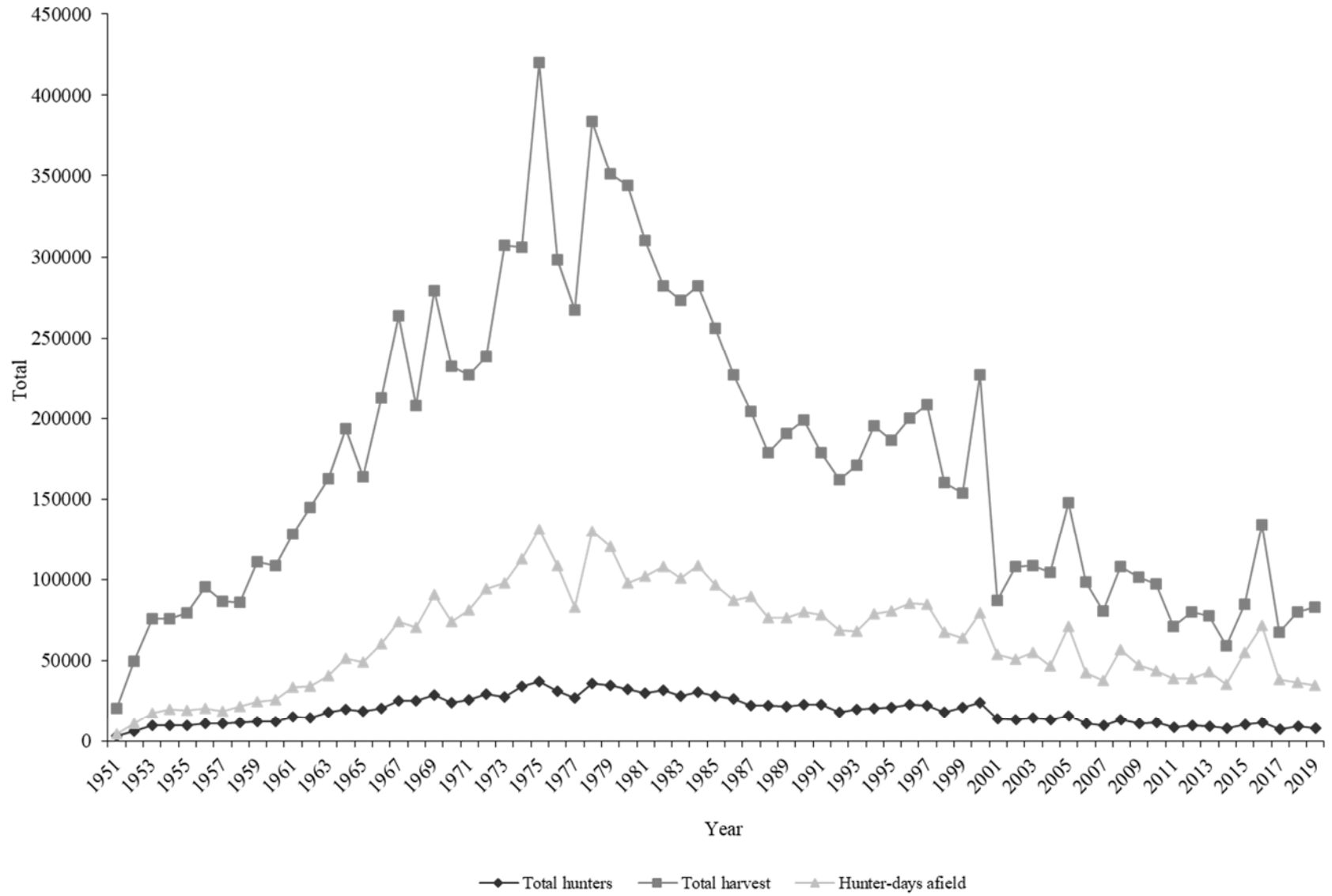
Statewide cottontail rabbit harvest statistics, Utah 1967–68 to 2019–2020 (continued).

| 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              |
| 2019–20                     | 6327          | 23111         | 31394              | 0.7                  | 3.7              |
| Average (1967–2018)         | 17347         | 106580        | 75604              | 1.3                  | 5.8              |
| % change from previous year | -23           | -42           | -49                | 15                   | -24              |
| % change from average       | -64           | -78           | -58                | -43                  | -37              |

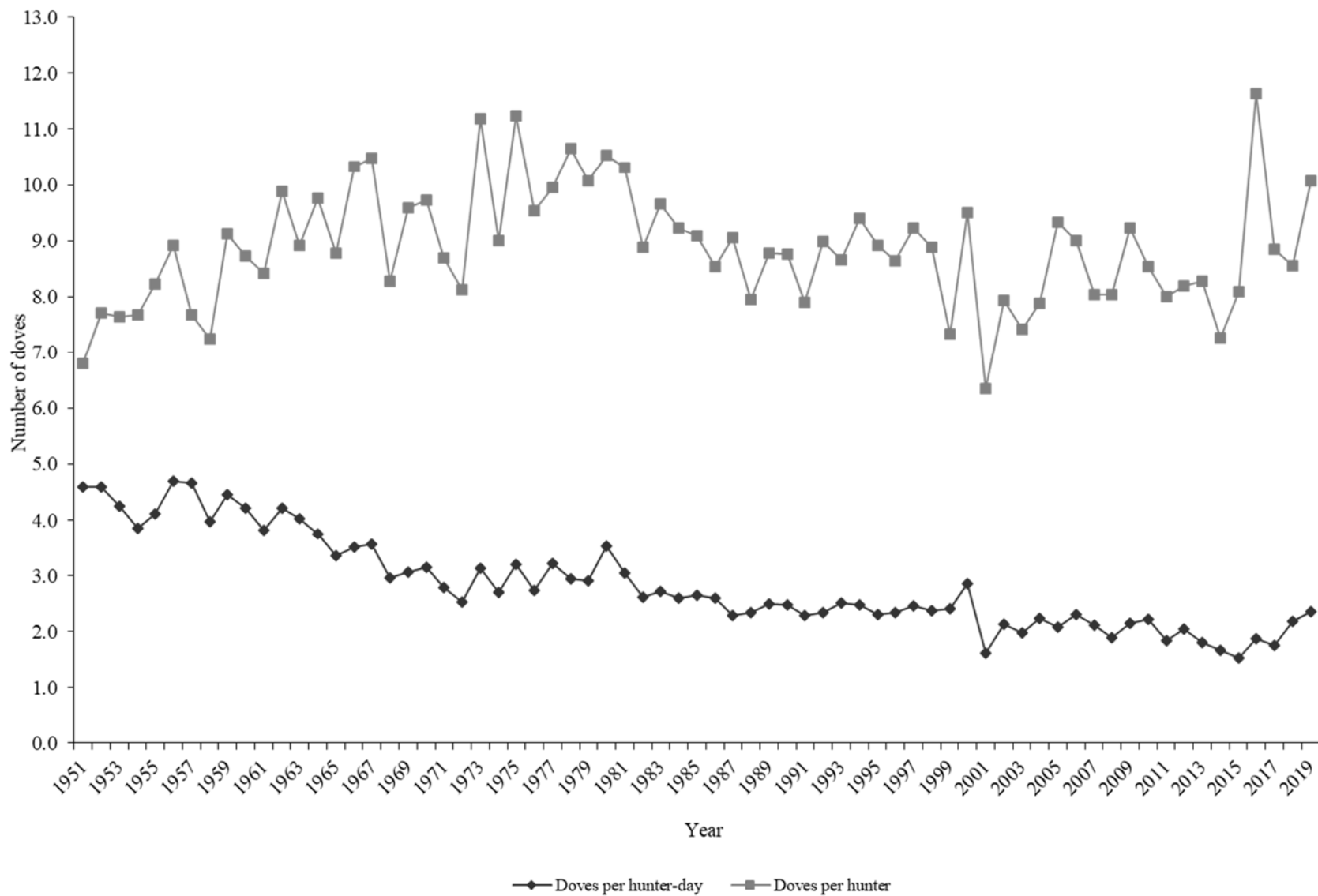
**DOVE**  
**(Mourning and White-winged)**



Statewide trends of dove (mourning and white-winged) harvest statistics, Utah 1951–2019.



Statewide trends of dove (mourning and white-winged) hunter success, Utah 1951–2019.





Dove (mourning and white-winged) harvest statistics by region and county, Utah 2019.

| Region and county   | n   | Hunters<br>afield | Hunter-days<br>afield | Doves<br>bagged | Doves /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|-----|-------------------|-----------------------|-----------------|-----------------------|---------------|--------------|
| Northern Region     |     |                   |                       |                 |                       |               |              |
| Box Elder           | 61  | 907               | 4196                  | 8816            | 2.1                   | 12.0          | 10.6         |
| Cache               | 47  | 698               | 2582                  | 5955            | 2.3                   | 7.4           | 7.2          |
| Davis               | 17  | 253               | 1790                  | 2156            | 1.2                   | 5.1           | 2.6          |
| Morgan              | 6   | 89                | 528                   | 320             | 0.6                   | 1.5           | 0.4          |
| Rich                | 1   | 15                | 88                    | 427             | 4.9                   | 0.3           | 0.5          |
| Summit              | 7   | 104               | 161                   | 171             | 1.1                   | 0.5           | 0.2          |
| Weber               | 54  | 802               | 3624                  | 6425            | 1.8                   | 10.3          | 7.8          |
| Regional total      | 193 | 2868              | 12969                 | 24270           | 1.9                   | 37.0          | 29.3         |
| Central Region      |     |                   |                       |                 |                       |               |              |
| Juab                | 42  | 624               | 1878                  | 5528            | 2.9                   | 5.4           | 6.7          |
| Salt Lake           | 12  | 178               | 426                   | 1601            | 3.8                   | 1.2           | 1.9          |
| Sanpete             | 20  | 297               | 983                   | 2946            | 3.0                   | 2.8           | 3.6          |
| Tooele              | 72  | 1070              | 3081                  | 9904            | 3.2                   | 8.8           | 12.0         |
| Utah                | 101 | 1501              | 5796                  | 13042           | 2.3                   | 16.5          | 15.7         |
| Wasatch             | 3   | 45                | 352                   | 85              | 0.2                   | 1.0           | 0.1          |
| Regional total      | 250 | 3715              | 12516                 | 33106           | 2.6                   | 35.7          | 40.0         |
| Southern Region     |     |                   |                       |                 |                       |               |              |
| Beaver              | 15  | 223               | 602                   | 2263            | 3.8                   | 1.7           | 2.7          |
| Garfield            | 7   | 104               | 1277                  | 1259            | 1.0                   | 3.6           | 1.5          |
| Iron                | 18  | 267               | 807                   | 2412            | 3.0                   | 2.3           | 2.9          |
| Kane                | 0   | 0                 | 0                     | 0               | 0.0                   | 0.0           | 0.0          |
| Millard             | 48  | 713               | 2040                  | 6318            | 3.1                   | 5.8           | 7.6          |
| Piute               | 1   | 15                | 147                   | 534             | 3.6                   | 0.4           | 0.6          |
| Sevier              | 17  | 253               | 880                   | 2412            | 2.7                   | 2.5           | 2.9          |
| Washington          | 20  | 297               | 998                   | 2668            | 2.7                   | 2.8           | 3.2          |
| Wayne               | 3   | 45                | 88                    | 85              | 1.0                   | 0.3           | 0.1          |
| Regional total      | 129 | 1917              | 6839                  | 17951           | 2.6                   | 19.5          | 21.7         |
| Northeastern Region |     |                   |                       |                 |                       |               |              |
| Daggett             | 5   | 74                | 293                   | 384             | 1.3                   | 0.8           | 0.5          |
| Duchesne            | 4   | 59                | 88                    | 320             | 3.6                   | 0.3           | 0.4          |
| Uintah              | 12  | 178               | 484                   | 1921            | 4.0                   | 1.4           | 2.3          |
| Regional total      | 21  | 311               | 865                   | 2625            | 3.0                   | 2.5           | 3.2          |
| Southeastern Region |     |                   |                       |                 |                       |               |              |
| Carbon              | 5   | 74                | 161                   | 406             | 2.5                   | 0.5           | 0.5          |
| Emery               | 6   | 89                | 426                   | 1516            | 3.6                   | 1.2           | 1.8          |
| Grand               | 4   | 59                | 323                   | 342             | 1.1                   | 0.9           | 0.4          |
| San Juan            | 8   | 119               | 690                   | 2220            | 3.2                   | 2.0           | 2.7          |
| Regional total      | 23  | 341               | 1600                  | 4484            | 2.8                   | 4.6           | 5.4          |
| Unknown             | 9   | 134               | 249                   | 427             | 1.7                   | 0.7           | 0.5          |
| Statewide total*    | 554 | 8233              | 35039                 | 82863           | 2.4                   | 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 dove (mourning and white-winged) harvest statistics, Utah 1951–2019.

| 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            |
| 1988 | 22457         | 178469        | 76219              | 2.3                | 7.9            |
| 1989 | 21696         | 190328        | 76372              | 2.5                | 8.8            |

Statewide dove (mourning and white-winged) harvest statistics, Utah 1951–2019 (continued).

| Year                        | Total hunters | Total harvest | Hunter-days afield | Doves / hunter-day | Doves / hunter |
|-----------------------------|---------------|---------------|--------------------|--------------------|----------------|
| 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            |
| 2019                        | 8233          | 82863         | 35039              | 2.4                | 10.1           |
| Average (1951–2018)         | 19150         | 174423        | 64161              | 2.9                | 8.8            |
| % change from previous year | -12           | 4             | -4                 | 8                  | 18             |
| % change from average       | -57           | -52           | -45                | -17                | 14             |

\*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 2006–2019.

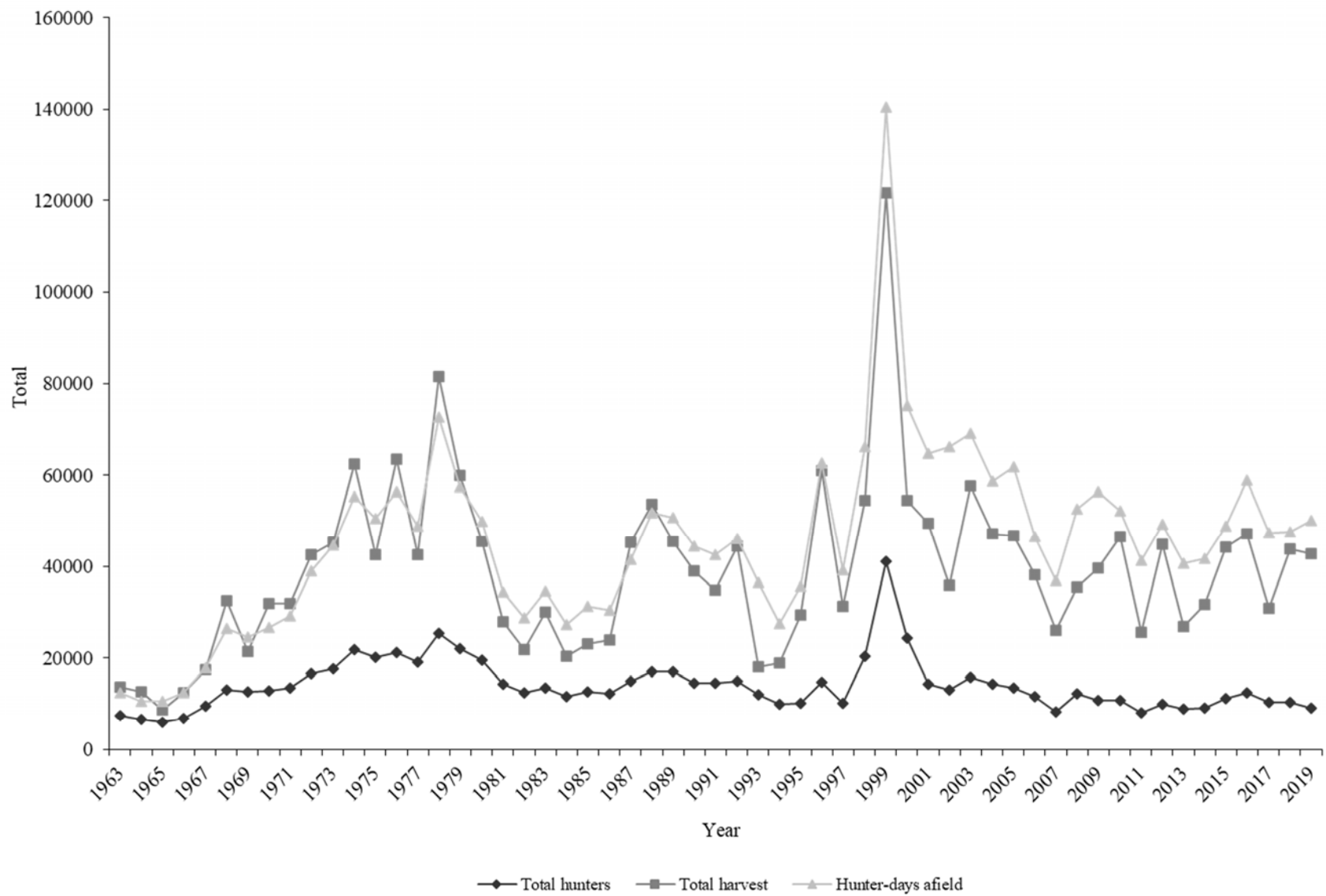
| Year                        | Mourning dove |      | White-winged dove |     | Collared-dove |      | Unknown |     | Total harvest |
|-----------------------------|---------------|------|-------------------|-----|---------------|------|---------|-----|---------------|
|                             | 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        |
| 2019                        | 77741         | 68.9 | 2432              | 2.2 | 29964         | 26.6 | 2688    | 2.4 | 112825        |
| Average (2006–2018)         | 81218         | 69.8 | 2920              | 2.6 | 32119         | 24.7 | 3492    | 2.9 | 119749        |
| % change from previous year | 6             | 4    | 11                | 10  | -5            | -6   | -37     | -38 | 1             |
| % change from average       | -4            | -1   | -20               | -20 | -7            | 7    | -30     | -21 | -6            |

\*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.

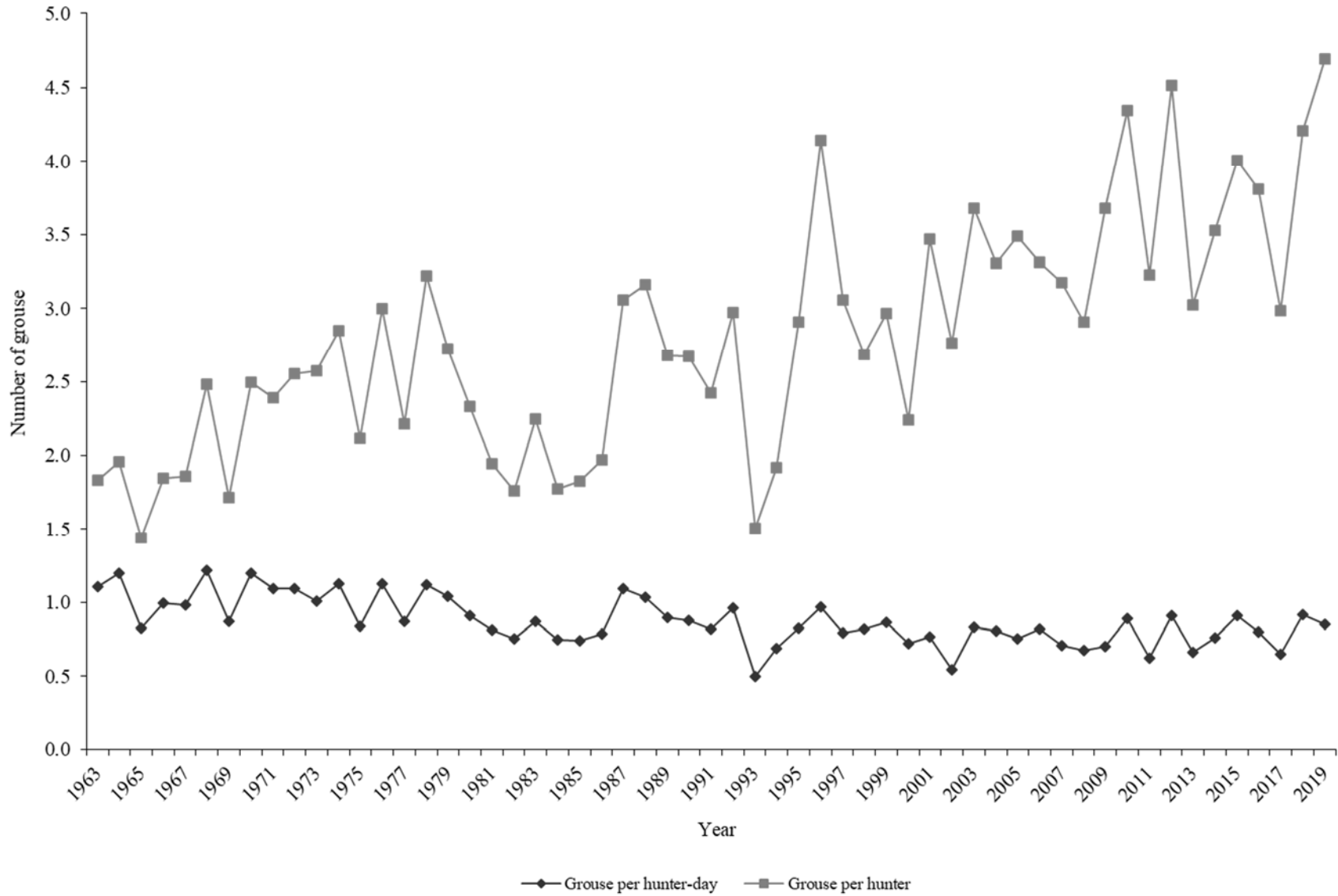
# FOREST GROUSE (Dusky and Ruffed)



Statewide trends of forest grouse harvest statistics, Utah 1963–2019.



Statewide trends of forest grouse hunter success, Utah 1963–2019.



Forest grouse (dusky and ruffed) harvest statistics by region and county, Utah 2019.

| Region and county   | n   | Hunters<br>afield | Hunter-days<br>afield | Grouse<br>bagged | Grouse /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|-----|-------------------|-----------------------|------------------|------------------------|---------------|--------------|
| Northern Region     |     |                   |                       |                  |                        |               |              |
| Box Elder           | 33  | 410               | 1133                  | 720              | 0.6                    | 2.3           | 1.7          |
| Cache               | 164 | 2036              | 10257                 | 9529             | 0.9                    | 20.5          | 22.3         |
| Davis               | 29  | 360               | 1317                  | 1099             | 0.8                    | 2.6           | 2.6          |
| Morgan              | 19  | 236               | 1077                  | 985              | 0.9                    | 2.2           | 2.3          |
| Rich                | 24  | 298               | 1402                  | 758              | 0.5                    | 2.8           | 1.8          |
| Summit              | 67  | 832               | 3315                  | 2823             | 0.9                    | 6.6           | 6.6          |
| Weber               | 49  | 608               | 2522                  | 1724             | 0.7                    | 5.0           | 4.0          |
| Regional total      | 385 | 4780              | 21023                 | 17638            | 0.8                    | 42.0          | 41.3         |
| Central Region      |     |                   |                       |                  |                        |               |              |
| Juab                | 16  | 199               | 765                   | 322              | 0.4                    | 1.5           | 0.8          |
| Salt Lake           | 13  | 161               | 1006                  | 417              | 0.4                    | 2.0           | 1.0          |
| Sanpete             | 50  | 621               | 2465                  | 2065             | 0.8                    | 4.9           | 4.8          |
| Tooele              | 21  | 261               | 1062                  | 512              | 0.5                    | 2.1           | 1.2          |
| Utah                | 81  | 1006              | 4562                  | 4092             | 0.9                    | 9.1           | 9.6          |
| Wasatch             | 71  | 881               | 4335                  | 4604             | 1.1                    | 8.7           | 10.8         |
| Regional total      | 252 | 3129              | 14195                 | 12012            | 0.8                    | 28.4          | 28.2         |
| Southern Region     |     |                   |                       |                  |                        |               |              |
| Beaver              | 16  | 199               | 737                   | 1497             | 2.0                    | 1.5           | 3.5          |
| Garfield            | 9   | 112               | 368                   | 208              | 0.6                    | 0.7           | 0.5          |
| Iron                | 16  | 199               | 609                   | 341              | 0.6                    | 1.2           | 0.8          |
| Kane                | 6   | 74                | 156                   | 114              | 0.7                    | 0.3           | 0.3          |
| Millard             | 17  | 211               | 666                   | 625              | 0.9                    | 1.3           | 1.5          |
| Piute               | 8   | 99                | 524                   | 512              | 1.0                    | 1.0           | 1.2          |
| Sevier              | 40  | 497               | 2805                  | 2198             | 0.8                    | 5.6           | 5.2          |
| Washington          | 4   | 50                | 113                   | 38               | 0.3                    | 0.2           | 0.1          |
| Wayne               | 9   | 112               | 354                   | 246              | 0.7                    | 0.7           | 0.6          |
| Regional total      | 125 | 1553              | 6332                  | 5779             | 0.9                    | 12.7          | 13.5         |
| Northeastern Region |     |                   |                       |                  |                        |               |              |
| Daggett             | 16  | 199               | 1147                  | 1080             | 0.9                    | 2.3           | 2.5          |
| Duchesne            | 40  | 497               | 1615                  | 1686             | 1.0                    | 3.2           | 4.0          |
| Uintah              | 32  | 397               | 1728                  | 1326             | 0.8                    | 3.5           | 3.1          |
| Regional total      | 88  | 1093              | 4490                  | 4092             | 0.9                    | 9.0           | 9.6          |
| Southeastern Region |     |                   |                       |                  |                        |               |              |
| Carbon              | 18  | 223               | 1176                  | 1023             | 0.9                    | 2.4           | 2.4          |
| Emery               | 10  | 124               | 411                   | 246              | 0.6                    | 0.8           | 0.6          |
| Grand               | 10  | 124               | 397                   | 246              | 0.6                    | 0.8           | 0.6          |
| San Juan            | 9   | 112               | 382                   | 76               | 0.2                    | 0.8           | 0.2          |
| Regional total      | 47  | 583               | 2366                  | 1591             | 0.7                    | 4.7           | 3.7          |
| Unknown             | 24  | 298               | 1615                  | 1553             | 1.0                    | 3.2           | 3.6          |
| Statewide total*    | 733 | 9100              | 50022                 | 42664            | 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 1963–2019.

| 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 1963–2019 (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             |
| 2019                        | 9100          | 42664         | 50022              | 0.9                 | 4.7             |
| Average (1963–2018)         | 14050         | 39010         | 45215              | 0.9                 | 2.8             |
| % change from previous year | -12           | -2            | 5                  | -7                  | 11              |
| % change from average       | -35           | 9             | 11                 | -2                  | 70              |

Forest grouse harvest by species, Utah 1963–2019.

| 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 1963–2019 (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         |
| 2019                        | 19685         | 45.0 | 21123        | 48.3 | 1859           | 4.3 | 43722         |
| Average (1963–2018)         | 15799         | 41.4 | 19836        | 51.9 | 3374           | 6.7 | 39010         |
| % change from previous year | -12           | -12  | 12           | 12   | -23            | -23 | 0             |
| % change from average       | 25            | 9    | 6            | -7   | -45            | -37 | 12            |

# GAMBEL'S QUAIL



CLARK BRONSON

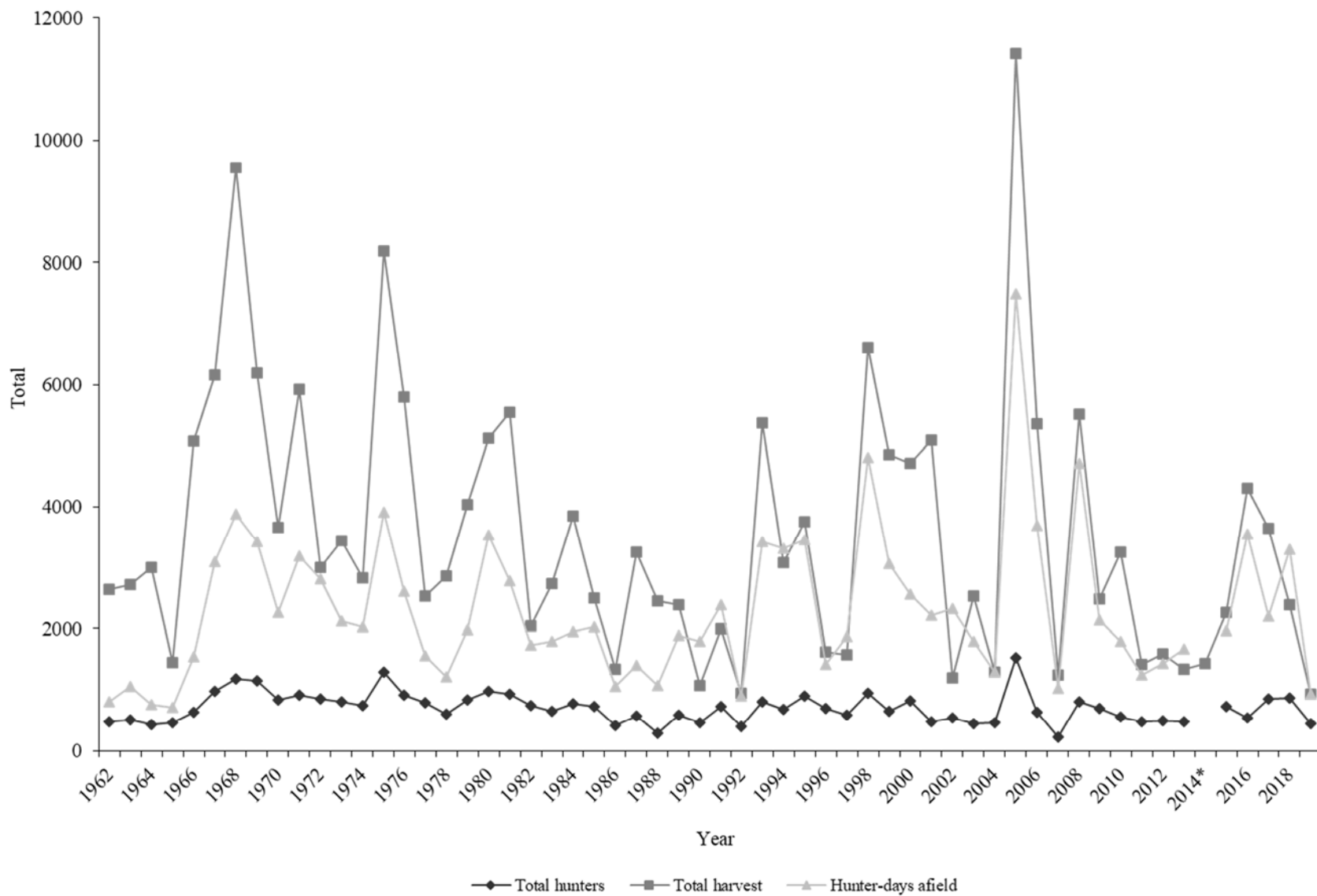
Gambel's quail waterhole trend counts, west slope of Beaver Dam Mountains, Washington County, Utah 1980–2019.

| 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 1980–2019 (continued).

| Year                           | Total young | Total adults | Total quail | Young / 100 adults |
|--------------------------------|-------------|--------------|-------------|--------------------|
| 2017                           | 402         | 109          | 511         | 369                |
| 2018                           | 63          | 42           | 105         | 150                |
| 2019                           | 111         | 25           | 136         | 444                |
| Average<br>(1980–2018)         | 168         | 58           | 227         | 301                |
| % change from<br>previous year | 76          | -40          | 30          | 196                |
| % change from<br>average       | -34         | -57          | -40         | 48                 |

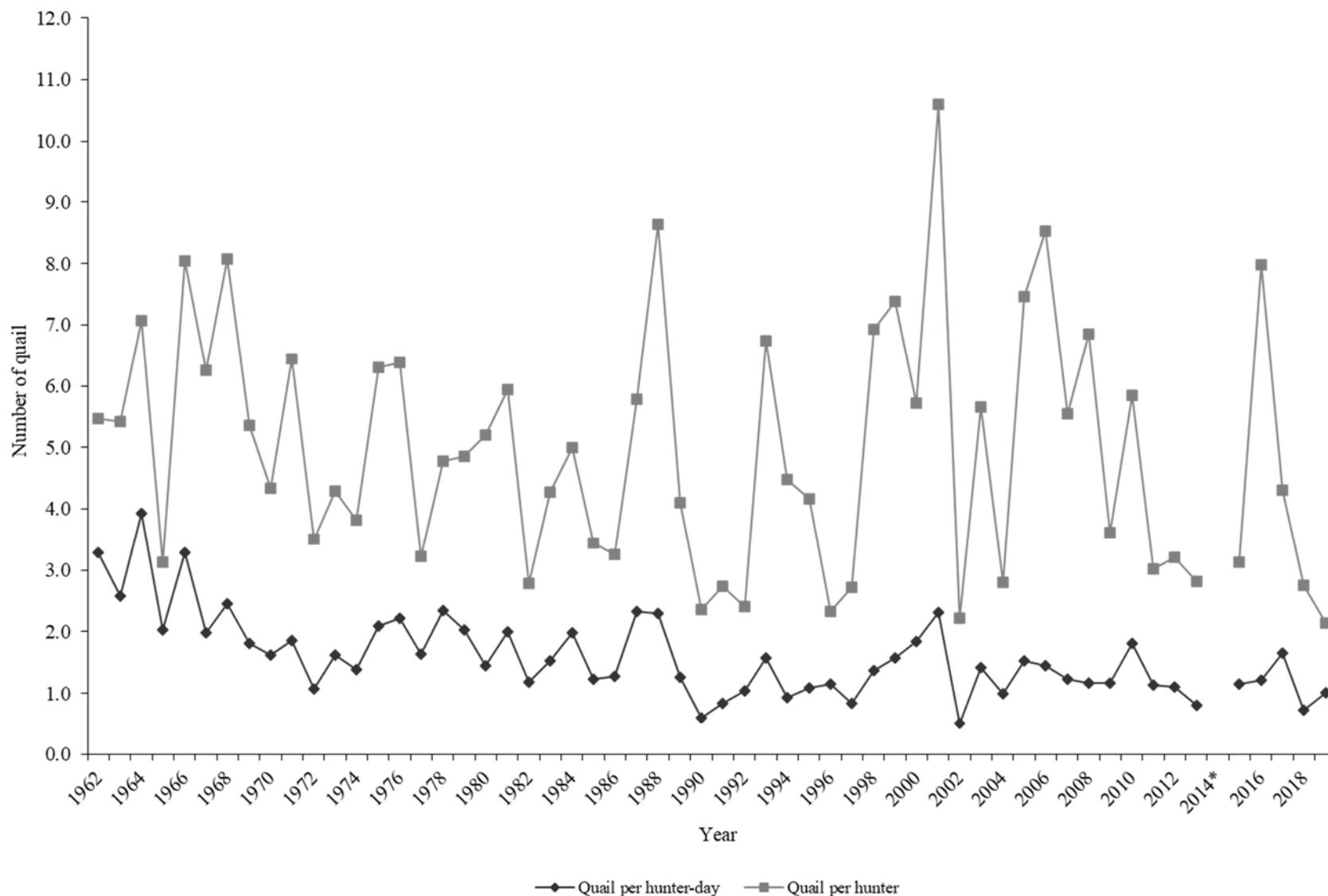
Statewide trends of Gambel’s quail harvest statistics, Utah 1962–2019.



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



Statewide trends of Gambel’s quail hunter success, Utah 1962–2019.



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

Gambel's quail harvest statistics by region and county, Utah 2019.

| Region and county   | n  | Hunters<br>afield | Hunter-days<br>afield | Quail<br>bagged | Quail /<br>hunter-day | %<br>pressure | %<br>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  | 21                | 21                    | 0               | 0.0                   | 2.2           | 0.0          |
| Kane                | 1  | 7                 | 5                     | 0               | 0.0                   | 0.6           | 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 | 356               | 831                   | 864             | 1.0                   | 89.5          | 92.1         |
| Wayne               | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Regional total      | 56 | 384               | 857                   | 864             | 1.0                   | 92.3          | 92.1         |
| 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             | 8  | 55                | 72                    | 74              | 1.0                   | 7.7           | 7.9          |
| Statewide total*    | 64 | 438               | 929                   | 938             | 1.0                   | 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 1962–2019.

| 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 1962–2019 (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            |
| 2019                        | 438           | 938           | 928                | 1.0                | 2.1            |
| Average (1951–2018)         | 705           | 3573          | 2341               | 1.6                | 5.0            |
| % change from previous year | -50           | -61           | -72                | 39                 | -22            |
| % change from average       | -38           | -74           | -60                | -37                | -57            |

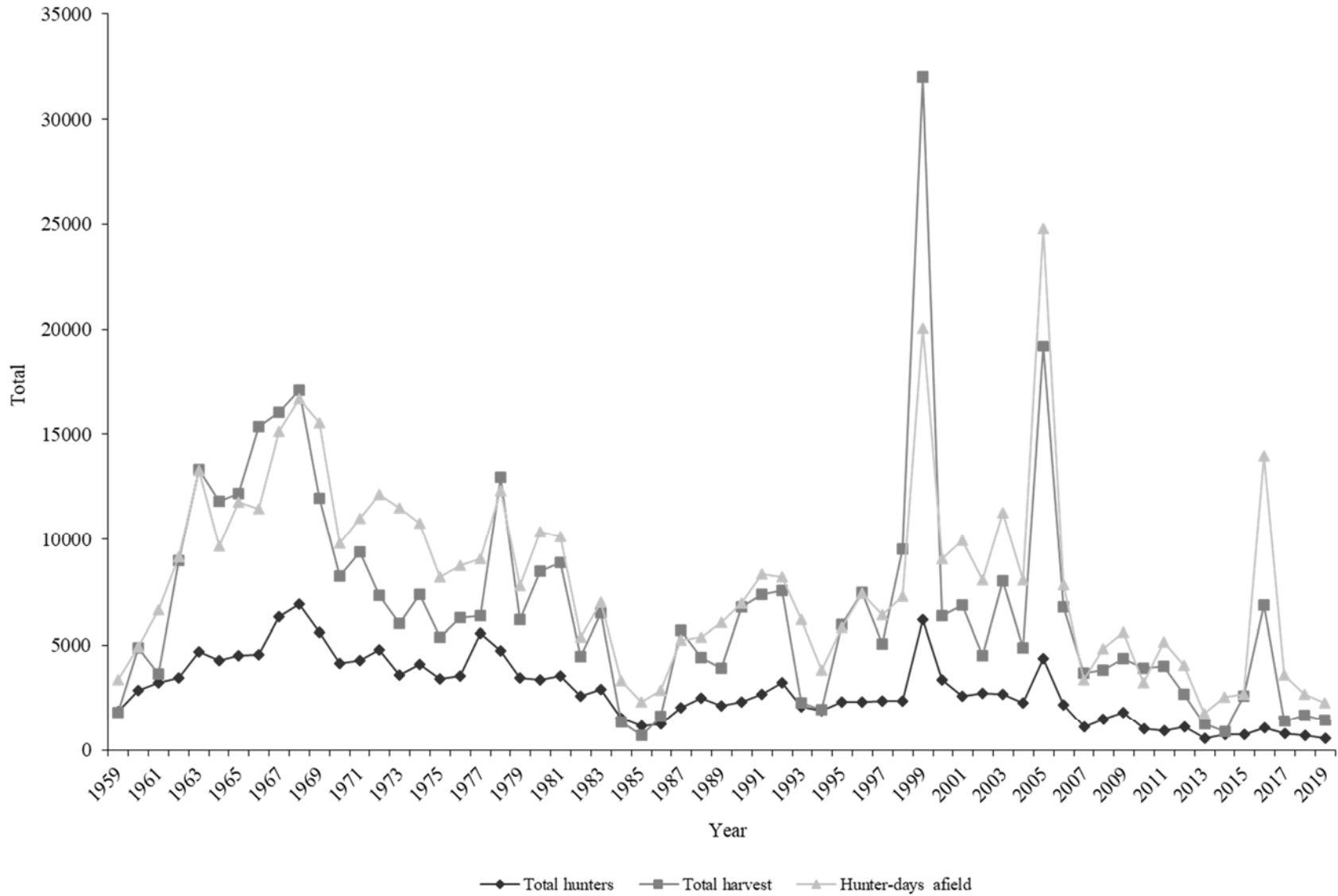
\*No data in 2014 due to a change in survey methodology.

## GRAY (HUNGARIAN) PARTRIDGE

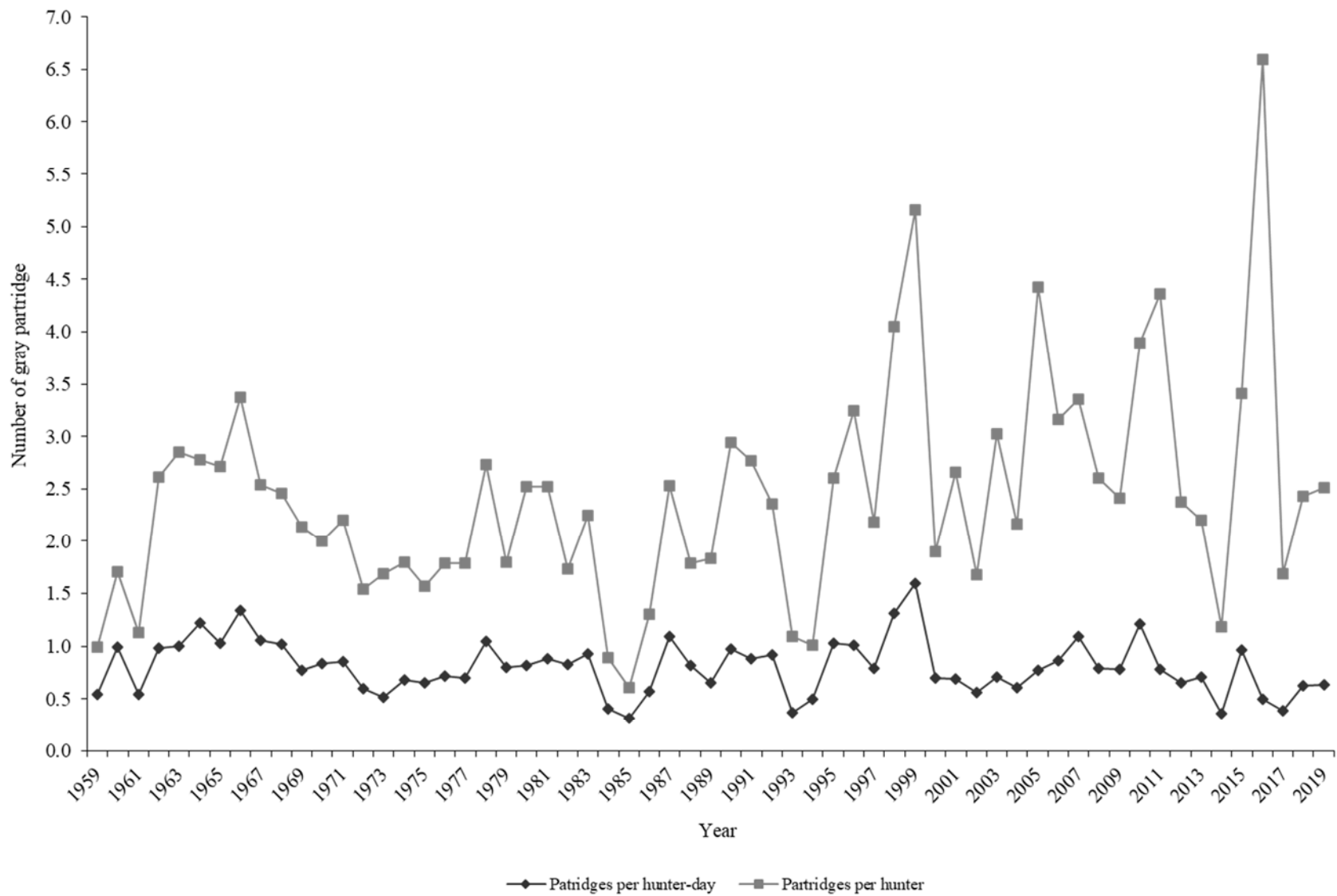


CLARK BRONSON

Statewide trends of gray (Hungarian) partridge harvest statistics, Utah 1959–60 to 2019–2020.



Statewide trends of gray (Hungarian) partridge hunter success, Utah 1959–60 to 2019–2020.



Gray (Hungarian) partridge harvest statistics by region and county, Utah 2019–2020.

| Region and county   | n  | Hunters<br>afield | Hunter-days<br>afield | Partridge<br>bagged | Partridge /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|----|-------------------|-----------------------|---------------------|---------------------------|---------------|--------------|
| Northern Region     |    |                   |                       |                     |                           |               |              |
| Box Elder           | 39 | 281               | 1198                  | 701                 | 0.6                       | 52.8          | 48.4         |
| Cache               | 18 | 130               | 572                   | 520                 | 0.9                       | 25.2          | 35.9         |
| Davis               | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Morgan              | 2  | 14                | 54                    | 91                  | 1.7                       | 2.4           | 6.3          |
| Rich                | 2  | 14                | 54                    | 91                  | 1.7                       | 2.4           | 6.3          |
| Summit              | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Weber               | 5  | 36                | 54                    | 45                  | 0.8                       | 2.4           | 3.1          |
| Regional total      | 66 | 475               | 1932                  | 1448                | 0.7                       | 85.2          | 100.0        |
| Central Region      |    |                   |                       |                     |                           |               |              |
| Juab                | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Salt Lake           | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Sanpete             | 1  | 7                 | 9                     | 0                   | 0.0                       | 0.4           | 0.0          |
| Tooele              | 2  | 14                | 54                    | 0                   | 0.0                       | 2.4           | 0.0          |
| Utah                | 2  | 14                | 36                    | 0                   | 0.0                       | 1.6           | 0.0          |
| Wasatch             | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Regional total      | 5  | 35                | 99                    | 0                   | 0.0                       | 4.4           | 0.0          |
| Southern Region     |    |                   |                       |                     |                           |               |              |
| Beaver              | 2  | 14                | 18                    | 0                   | 0.0                       | 0.8           | 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              | 1  | 7                 | 45                    | 0                   | 0.0                       | 2.0           | 0.0          |
| Washington          | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Wayne               | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Regional total      | 3  | 21                | 63                    | 0                   | 0.0                       | 2.8           | 0.0          |
| Northeastern Region |    |                   |                       |                     |                           |               |              |
| Daggett             | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Duchesne            | 3  | 22                | 127                   | 0                   | 0.0                       | 5.6           | 0.0          |
| Uintah              | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Regional total      | 3  | 22                | 127                   | 0                   | 0.0                       | 5.6           | 0.0          |
| Southeastern Region |    |                   |                       |                     |                           |               |              |
| Carbon              | 1  | 7                 | 9                     | 0                   | 0.0                       | 0.4           | 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      | 1  | 7                 | 9                     | 0                   | 0.0                       | 0.4           | 0.0          |
| Unknown             | 4  | 29                | 36                    | 0                   | 0.0                       | 1.6           | 0.0          |
| Statewide total*    | 80 | 577               | 2268                  | 1448                | 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.



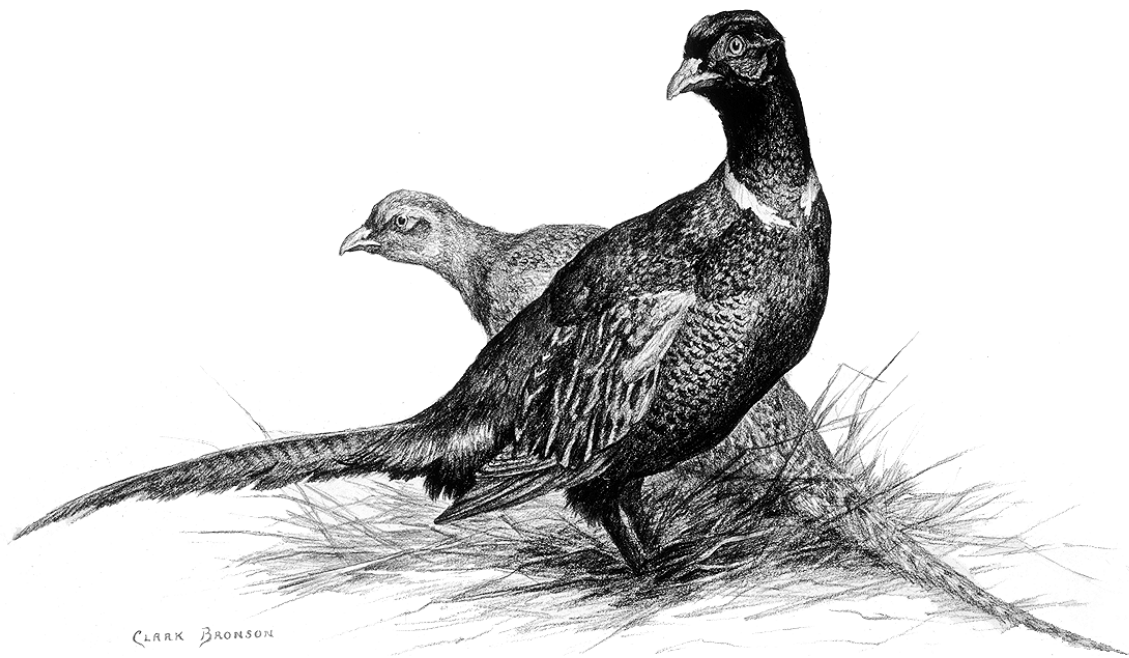
Statewide gray (Hungarian) partridge harvest statistics, Utah 1955–56 to 2019–2020.

| 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                |

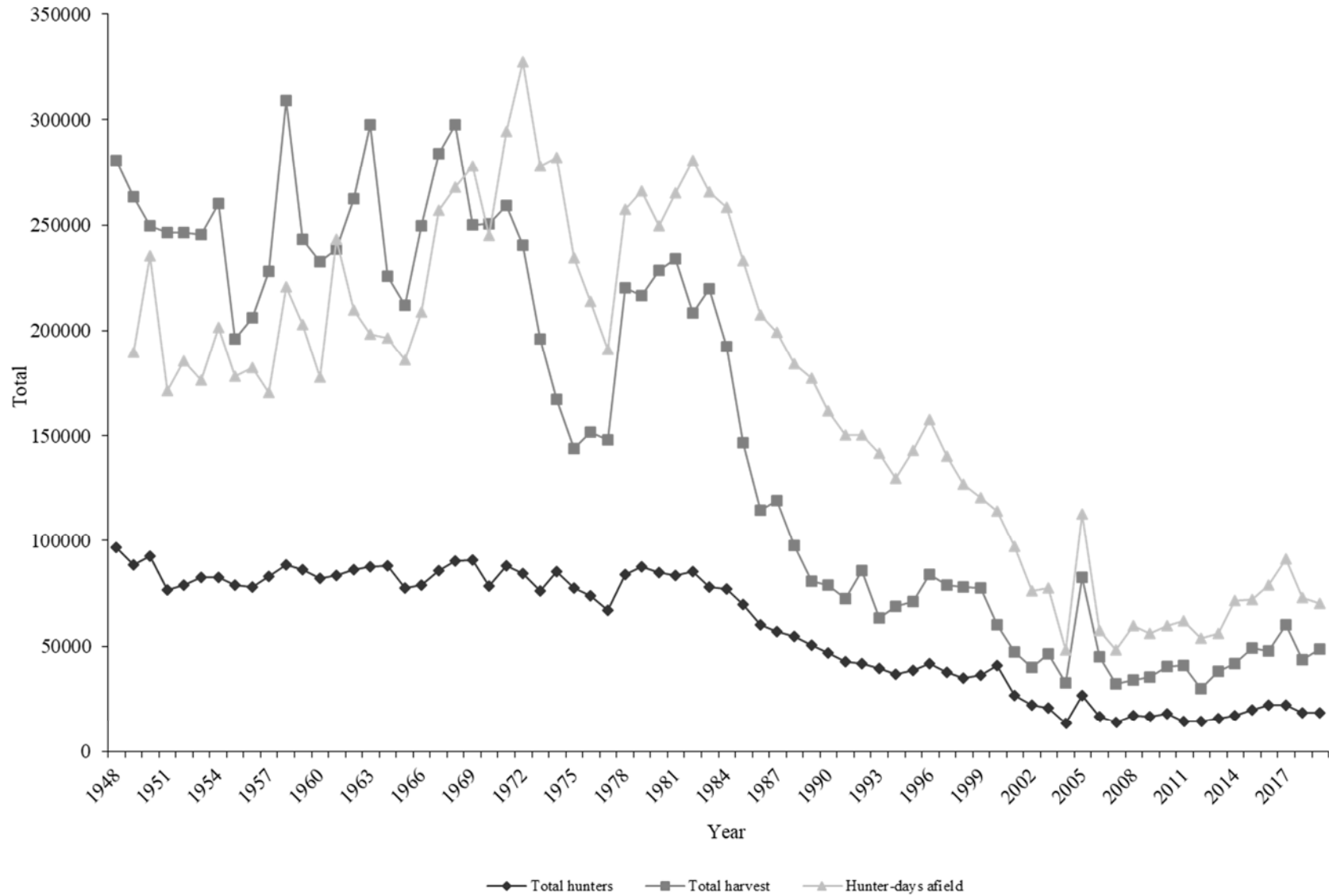
Statewide gray (Hungarian) partridge harvest statistics, Utah 1955–56 to 2019–2020 (continued).

| 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                |
| 2019–20                     | 577           | 1448          | 2268               | 0.6                    | 2.5                |
| Average (1955–2018)         | 2872          | 6976          | 8170               | 0.8                    | 2.4                |
| % change from previous year | -16           | -13           | -15                | 3                      | 3                  |
| % change from average       | -80           | -79           | -72                | -21                    | 4                  |

# RING-NECKED PHEASANT



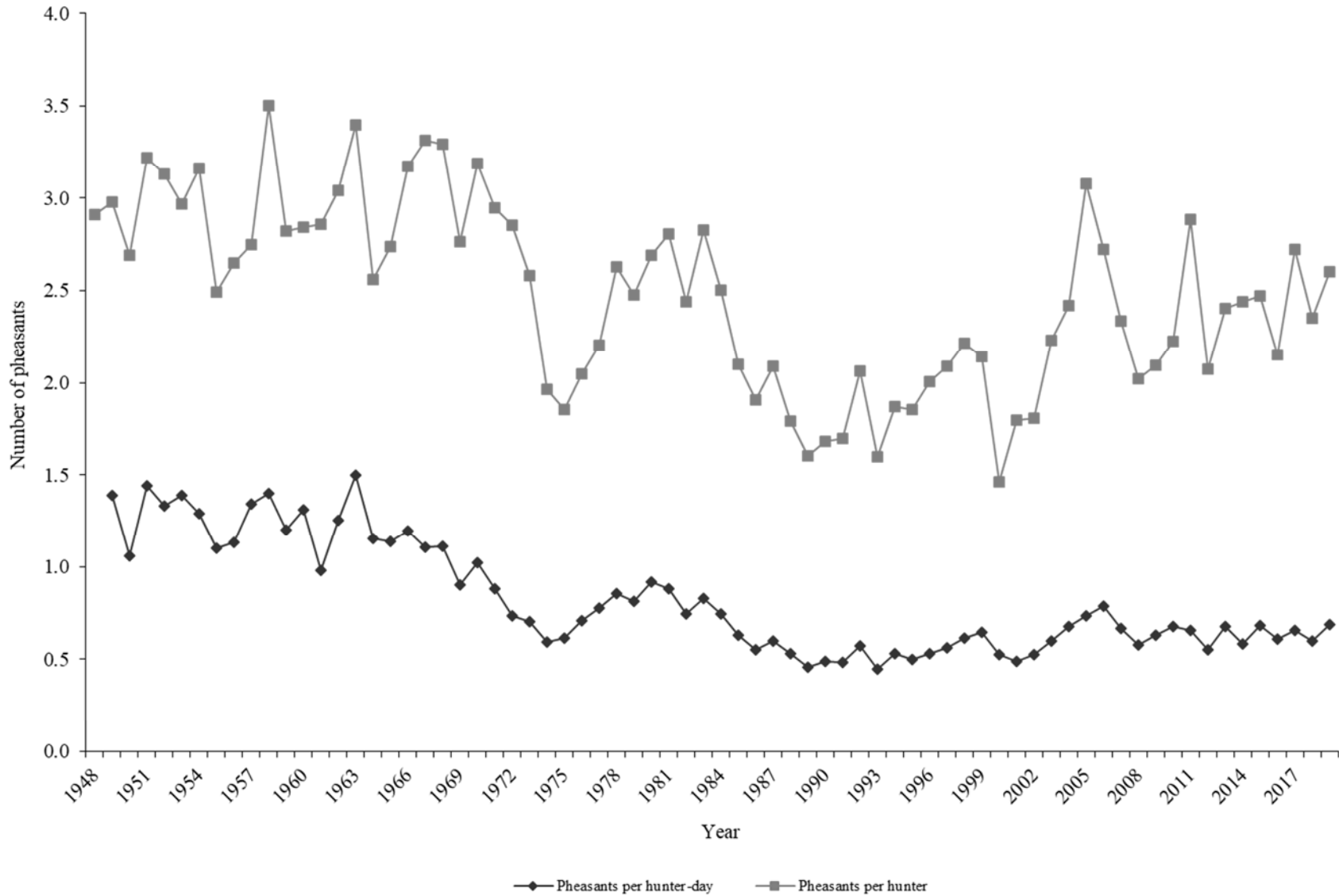
Statewide trends of ring-necked pheasant harvest statistics, Utah 1948–2019.



\*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 1948–2019.



\*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 2019.

| Region and county   | n    | Hunters<br>afield | Hunter-days<br>afield | Pheasants<br>bagged | Pheasants /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|------|-------------------|-----------------------|---------------------|---------------------------|---------------|--------------|
| Northern Region     |      |                   |                       |                     |                           |               |              |
| Box Elder           | 231  | 3390              | 11406                 | 8651                | 0.8                       | 16.2          | 17.8         |
| Cache               | 196  | 2876              | 10976                 | 6365                | 0.6                       | 15.6          | 13.1         |
| Davis               | 90   | 1321              | 4276                  | 2270                | 0.5                       | 6.1           | 4.7          |
| Morgan              | 2    | 29                | 57                    | 66                  | 1.2                       | 0.1           | 0.1          |
| Rich                | 1    | 15                | 57                    | 49                  | 0.9                       | 0.1           | 0.1          |
| Summit              | 4    | 59                | 129                   | 66                  | 0.5                       | 0.2           | 0.1          |
| Weber               | 185  | 2715              | 8781                  | 5115                | 0.6                       | 12.5          | 10.6         |
| Regional total      | 709  | 10405             | 35682                 | 22582               | 0.6                       | 50.7          | 46.6         |
| Central Region      |      |                   |                       |                     |                           |               |              |
| Juab                | 40   | 587               | 1449                  | 1464                | 1.0                       | 2.1           | 3.0          |
| Salt Lake           | 25   | 367               | 1019                  | 970                 | 1.0                       | 1.4           | 2.0          |
| Sanpete             | 32   | 470               | 2037                  | 1151                | 0.6                       | 2.9           | 2.4          |
| Tooele              | 79   | 1159              | 3616                  | 2105                | 0.6                       | 5.1           | 4.3          |
| Utah                | 217  | 3184              | 10703                 | 7796                | 0.7                       | 15.2          | 16.1         |
| Wasatch             | 11   | 161               | 402                   | 461                 | 1.1                       | 0.6           | 1.0          |
| Regional total      | 404  | 5928              | 19226                 | 13947               | 0.7                       | 27.3          | 28.8         |
| Southern Region     |      |                   |                       |                     |                           |               |              |
| Beaver              | 8    | 117               | 230                   | 197                 | 0.9                       | 0.3           | 0.4          |
| Garfield            | 1    | 15                | 72                    | 0                   | 0.0                       | 0.1           | 0.0          |
| Iron                | 24   | 352               | 1004                  | 543                 | 0.5                       | 1.4           | 1.1          |
| Kane                | 0    | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Millard             | 42   | 616               | 1550                  | 1036                | 0.7                       | 2.2           | 2.1          |
| Piute               | 1    | 15                | 29                    | 66                  | 2.3                       | 0.0           | 0.1          |
| Sevier              | 59   | 866               | 3185                  | 2187                | 0.7                       | 4.5           | 4.5          |
| Washington          | 6    | 88                | 215                   | 49                  | 0.2                       | 0.3           | 0.1          |
| Wayne               | 12   | 176               | 818                   | 329                 | 0.4                       | 1.2           | 0.7          |
| Regional total      | 153  | 2245              | 7103                  | 4407                | 0.6                       | 10.1          | 9.1          |
| Northeastern Region |      |                   |                       |                     |                           |               |              |
| Daggett             | 5    | 73                | 230                   | 230                 | 1.0                       | 0.3           | 0.5          |
| Duchesne            | 46   | 675               | 2009                  | 1365                | 0.7                       | 2.9           | 2.8          |
| Uintah              | 38   | 558               | 1650                  | 1414                | 0.9                       | 2.3           | 2.9          |
| Regional total      | 89   | 1306              | 3889                  | 3009                | 0.8                       | 5.5           | 6.2          |
| Southeastern Region |      |                   |                       |                     |                           |               |              |
| Carbon              | 23   | 337               | 1220                  | 1168                | 1.0                       | 1.7           | 2.4          |
| Emery               | 26   | 382               | 2238                  | 1809                | 0.8                       | 3.2           | 3.7          |
| Grand               | 1    | 15                | 43                    | 0                   | 0.0                       | 0.1           | 0.0          |
| San Juan            | 1    | 15                | 14                    | 0                   | 0.0                       | 0.0           | 0.0          |
| Regional total      | 51   | 749               | 3515                  | 2977                | 0.8                       | 5.0           | 6.1          |
| Unknown             | 37   | 543               | 933                   | 1546                | 1.7                       | 1.3           | 3.2          |
| Statewide total*    | 1270 | 18635             | 70345                 | 48470               | 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. Harvest data are likely biased high due to possibility of hunters reporting harvest from commercial hunting areas.

Statewide ring-necked pheasant harvest statistics, Utah 1948–2019.

| 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                |
| 1986 | 59987         | 114389        | 207346             | 0.6                    | 1.9                |
| 1987 | 57118         | 119236        | 199470             | 0.6                    | 2.1                |

Statewide ring-necked pheasant harvest statistics, Utah 1948–2019 (continued).

| Year                        | Total hunters | Total harvest | Hunter-days afield | Pheasants / hunter-day | Pheasants / hunter |
|-----------------------------|---------------|---------------|--------------------|------------------------|--------------------|
| 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                |
| 2019                        | 18635         | 48470         | 70345              | 0.7                    | 2.6                |
| Average (1948–2018)         | 57746         | 150239        | 170525             | 0.8                    | 2.5                |
| % change from previous year | -16           | -19           | -23                | 5                      | -5                 |
| % change from average       | -68           | -68           | -59                | -17                    | 5                  |

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

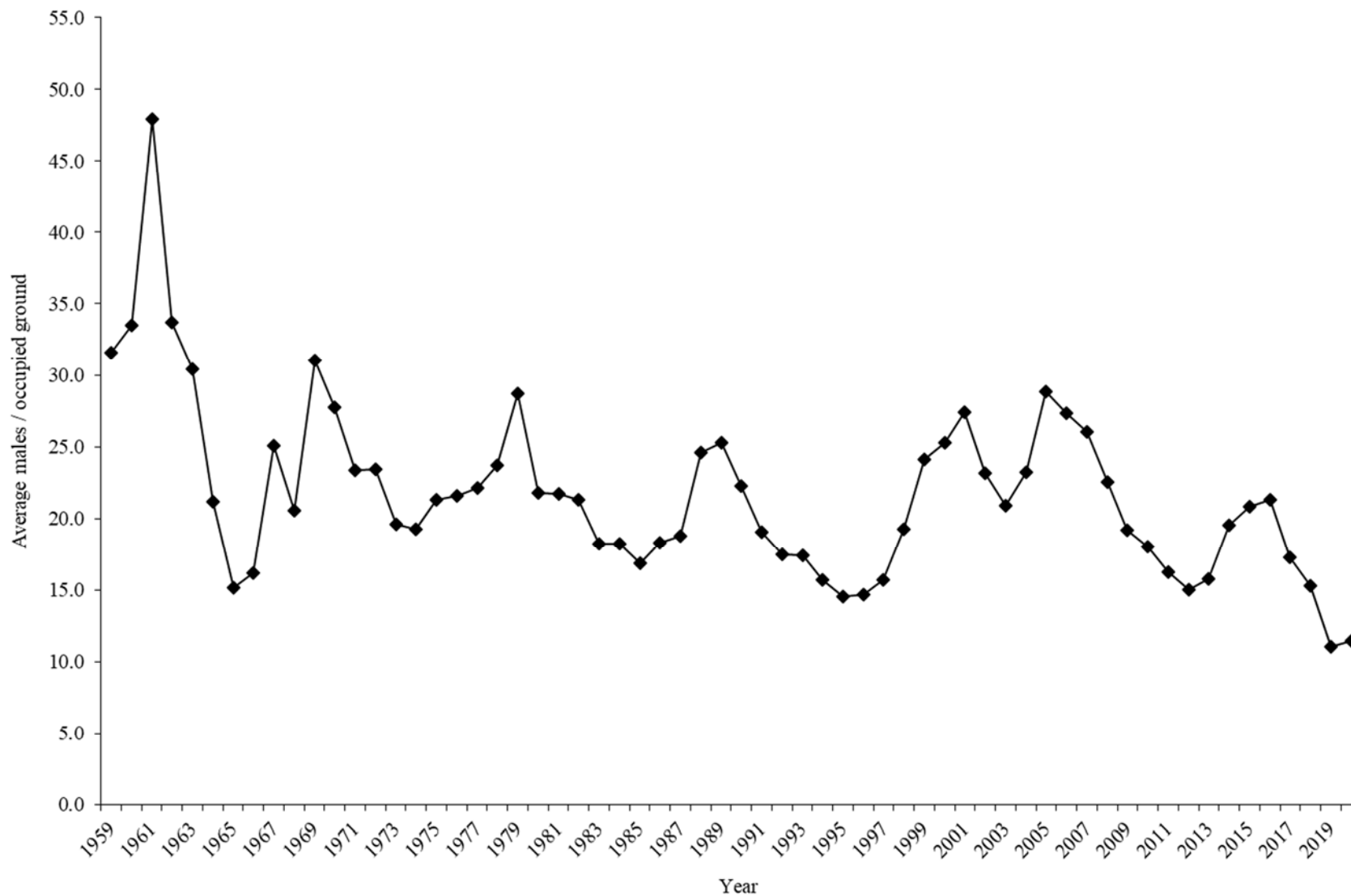


# SAGE-GROUSE (Greater and Gunnison)



CLARA BRANSON

Statewide trends of average greater sage-grouse males per occupied strutting ground, Utah 1959–2020.



Greater sage-grouse strutting ground counts by county for the Northern Region, Utah 2011–2020.

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>Box Elder</b>                     |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 57   | 86   | 73   | 62   | 74   | 77   | 67   | 70   | 56   | 68   | 69                     |
| Number of strutting grounds occupied | 35   | 44   | 42   | 44   | 52   | 44   | 43   | 49   | 29   | 31   | 42                     |
| Total male grouse counted            | 381  | 547  | 577  | 691  | 871  | 777  | 755  | 661  | 350  | 310  | 623                    |
| Average males / occupied ground      | 10.9 | 12.4 | 13.7 | 15.7 | 16.8 | 17.7 | 17.6 | 13.5 | 12.1 | 10.0 | 14.5                   |
| <b>Cache</b>                         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 3    | 4    | 0    | 1    | 4    | 4    | 3    | 3    | 1    | 4    | 3                      |
| Number of strutting grounds occupied | 3    | 4    | —    | 0    | 3    | 4    | 2    | 2    | 1    | 3    | 2                      |
| Total male grouse counted            | 33   | 45   | —    | —    | 77   | 75   | 61   | 58   | 10   | 35   | 51                     |
| Average males / occupied ground      | 11.0 | 11.3 | —    | —    | 25.7 | 18.8 | 30.5 | 29.0 | 10.0 | 11.7 | 19.5                   |
| <b>Morgan</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 5    | 7    | 5    | 7    | 7    | 7    | 3    | 4    | 1    | 4    | 5                      |
| Number of strutting grounds occupied | 2    | 5    | 4    | 5    | 5    | 4    | 1    | 3    | 1    | 1    | 3                      |
| Total male grouse counted            | 28   | 26   | 25   | 41   | 44   | 68   | 9    | 11   | 2    | 9    | 28                     |
| Average males / occupied ground      | 14.0 | 5.2  | 6.3  | 8.2  | 8.8  | 17.0 | 9.0  | 3.7  | 2.0  | 9.0  | 8.2                    |
| <b>Rich</b>                          |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 39   | 45   | 35   | 44   | 41   | 41   | 39   | 42   | 40   | 54   | 41                     |
| Number of strutting grounds occupied | 28   | 32   | 25   | 30   | 28   | 30   | 27   | 30   | 30   | 35   | 29                     |
| Total male grouse counted            | 676  | 553  | 401  | 745  | 913  | 697  | 529  | 562  | 380  | 643  | 606                    |
| Average males / occupied ground      | 24.1 | 17.3 | 16.0 | 24.8 | 32.6 | 23.2 | 19.6 | 18.7 | 12.7 | 18.4 | 21.0                   |
| <b>Summit</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 4    | 4    | 3    | 4    | 4    | 6    | 3    | 4    | 4    | 4    | 4                      |
| Number of strutting grounds occupied | 4    | 4    | 3    | 4    | 4    | 5    | 3    | 4    | 3    | 3    | 4                      |
| Total male grouse counted            | 102  | 85   | 63   | 84   | 107  | 138  | 62   | 59   | 33   | 23   | 81                     |
| Average males / occupied ground      | 25.5 | 21.3 | 21.0 | 21.0 | 26.8 | 27.6 | 20.7 | 14.8 | 11.0 | 7.7  | 21.1                   |
| <b>Northern Region total</b>         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 108  | 146  | 116  | 118  | 130  | 135  | 115  | 123  | 102  | 134  | 121                    |
| Number of strutting grounds occupied | 72   | 89   | 74   | 83   | 92   | 87   | 76   | 88   | 64   | 73   | 81                     |
| Total male grouse counted            | 1220 | 1256 | 1066 | 1561 | 2012 | 1755 | 1416 | 1351 | 775  | 1020 | 1379                   |
| Average males / occupied ground      | 16.9 | 14.1 | 14.4 | 18.8 | 21.9 | 20.2 | 18.6 | 15.4 | 12.1 | 14.0 | 16.9                   |

Greater sage-grouse strutting ground counts by county for the Central Region, Utah 2011–2020.

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>Juab</b>                          |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 3    | 4    | 4    | 4    | 4    | 4    | 3    | 4    | 4    | 4    | 4                      |
| Number of strutting grounds occupied | 1    | 3    | 4    | 4    | 4    | 4    | 2    | 2    | 3    | 1    | 3                      |
| Total male grouse counted            | 7    | 16   | 28   | 29   | 38   | 31   | 9    | 27   | 26   | 20   | 23                     |
| Average males / occupied ground      | 7.0  | 5.3  | 7.0  | 7.3  | 9.5  | 7.8  | 4.5  | 13.5 | 8.7  | 20.0 | 7.8                    |
| <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  | 8    | 9    | 10   | 9    | 9    | 8    | 10   | 10   | 10   | 13   | 9                      |
| Number of strutting grounds occupied | 6    | 6    | 5    | 5    | 5    | 5    | 6    | 7    | 6    | 9    | 6                      |
| Total male grouse counted            | 55   | 53   | 37   | 59   | 58   | 60   | 65   | 92   | 79   | 90   | 62                     |
| Average males / occupied ground      | 9.2  | 8.8  | 7.4  | 11.8 | 11.6 | 12.0 | 10.8 | 13.1 | 13.2 | 10.0 | 10.9                   |
| <b>Wasatch</b>                       |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4                      |
| Number of strutting grounds occupied | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4                      |
| Total male grouse counted            | 85   | 73   | 77   | 116  | 126  | 140  | 81   | 93   | 63   | 52   | 95                     |
| Average males / occupied ground      | 28.3 | 18.3 | 19.3 | 29.0 | 31.5 | 35.0 | 20.3 | 23.3 | 15.8 | 13.0 | 24.5                   |
| <b>Central Region total</b>          |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 14   | 17   | 18   | 17   | 17   | 16   | 17   | 18   | 18   | 21   | 17                     |
| Number of strutting grounds occupied | 10   | 13   | 13   | 13   | 13   | 13   | 12   | 13   | 13   | 14   | 13                     |
| Total male grouse counted            | 147  | 142  | 142  | 204  | 222  | 231  | 155  | 212  | 168  | 162  | 180                    |
| Average males / occupied ground      | 14.7 | 10.9 | 10.9 | 15.7 | 17.1 | 17.8 | 12.9 | 16.3 | 12.9 | 11.6 | 14.4                   |

Greater sage-grouse strutting ground counts by county for the Southern Region, Utah 2011–2020.

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>Beaver</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 7    | 7    | 8    | 6    | 6    | 6    | 8    | 8    | 8    | 8    | 7                      |
| Number of strutting grounds occupied | 4    | 5    | 5    | 5    | 4    | 3    | 3    | 3    | 3    | 3    | 4                      |
| Total male grouse counted            | 41   | 56   | 50   | 74   | 69   | 72   | 53   | 43   | 33   | 35   | 55                     |
| Average males / occupied ground      | 10.3 | 11.2 | 10.0 | 14.8 | 17.3 | 24.0 | 17.7 | 14.3 | 11.0 | 11.7 | 14.5                   |
| <b>Garfield</b>                      |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 22   | 22   | 27   | 28   | 28   | 29   | 30   | 29   | 29   | 33   | 27                     |
| Number of strutting grounds occupied | 9    | 8    | 15   | 16   | 19   | 18   | 21   | 22   | 19   | 15   | 16                     |
| Total male grouse counted            | 186  | 253  | 285  | 376  | 454  | 429  | 522  | 454  | 259  | 130  | 358                    |
| Average males / occupied ground      | 20.7 | 31.6 | 19.0 | 23.5 | 23.9 | 23.8 | 24.9 | 20.6 | 13.6 | 8.7  | 22.4                   |
| <b>Iron</b>                          |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 19   | 23   | 25   | 27   | 27   | 29   | 30   | 29   | 30   | 32   | 27                     |
| Number of strutting grounds occupied | 13   | 17   | 19   | 20   | 24   | 21   | 25   | 22   | 20   | 23   | 20                     |
| Total male grouse counted            | 173  | 203  | 210  | 281  | 246  | 277  | 276  | 235  | 155  | 143  | 228                    |
| Average males / occupied ground      | 13.3 | 11.9 | 11.1 | 14.1 | 10.3 | 13.2 | 11.0 | 10.7 | 7.8  | 6.2  | 11.5                   |
| <b>Kane</b>                          |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3                      |
| Number of strutting grounds occupied | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1                      |
| Total male grouse counted            | —    | 4    | 12   | 11   | 12   | 15   | 22   | 16   | 13   | 9    | 13                     |
| Average males / occupied ground      | —    | 4.0  | 12.0 | 11.0 | 12.0 | 15.0 | 22.0 | 16.0 | 13.0 | 9.0  | 13.1                   |
| <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 2011–2020 (continued).

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>Piute</b>                         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 7    | 7    | 7    | 7    | 8    | 8    | 8    | 8    | 8    | 8    | 8                      |
| Number of strutting grounds occupied | 5    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 6    | 6                      |
| Total male grouse counted            | 57   | 74   | 82   | 119  | 157  | 148  | 139  | 129  | 96   | 57   | 111                    |
| Average males / occupied ground      | 11.4 | 12.3 | 13.7 | 19.8 | 22.4 | 21.1 | 19.9 | 18.4 | 13.7 | 9.5  | 17.0                   |
| <b>Sevier</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 1    | 2    | 1    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 2                      |
| Number of strutting grounds occupied | 0    | 2    | 1    | 2    | 1    | 2    | 1    | 1    | 1    | 1    | 1                      |
| Total male grouse counted            | —    | 16   | 30   | 21   | 23   | 18   | 16   | 22   | 16   | 26   | 20                     |
| Average males / occupied ground      | —    | 8.0  | 30.0 | 10.5 | 23.0 | 9.0  | 16.0 | 22.0 | 16.0 | 26.0 | 16.8                   |
| <b>Wayne</b>                         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 27   | 27   | 29   | 30   | 28   | 27   | 31   | 31   | 30   | 32   | 29                     |
| Number of strutting grounds occupied | 19   | 17   | 20   | 21   | 19   | 19   | 23   | 17   | 14   | 14   | 19                     |
| Total male grouse counted            | 516  | 481  | 614  | 742  | 703  | 681  | 568  | 460  | 234  | 203  | 555                    |
| Average males / occupied ground      | 27.2 | 28.3 | 30.7 | 35.3 | 37.0 | 35.8 | 24.7 | 27.1 | 16.7 | 14.5 | 29.2                   |
| <b>Southern Region total</b>         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 86   | 91   | 100  | 103  | 102  | 104  | 112  | 110  | 111  | 119  | 102                    |
| Number of strutting grounds occupied | 50   | 56   | 67   | 71   | 75   | 71   | 81   | 73   | 65   | 63   | 68                     |
| Total male grouse counted            | 973  | 1087 | 1283 | 1624 | 1664 | 1640 | 1596 | 1359 | 806  | 603  | 1337                   |
| Average males / occupied ground      | 19.5 | 19.4 | 19.1 | 22.9 | 22.2 | 23.1 | 19.7 | 18.6 | 12.4 | 9.6  | 19.7                   |

Greater sage-grouse strutting ground counts by county for the Northeastern Region, Utah 2011–2020.

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>Daggett</b>                       |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 12   | 12   | 12   | 13   | 12   | 13   | 13   | 14   | 12   | 14   | 13                     |
| Number of strutting grounds occupied | 6    | 7    | 5    | 7    | 10   | 9    | 10   | 7    | 7    | 6    | 8                      |
| Total male grouse counted            | 44   | 52   | 48   | 93   | 148  | 201  | 145  | 70   | 28   | 34   | 92                     |
| Average males / occupied ground      | 7.3  | 7.4  | 9.6  | 13.3 | 14.8 | 22.3 | 14.5 | 10.0 | 4.0  | 5.7  | 11.5                   |
| <b>Duchesne</b>                      |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 20   | 20   | 15   | 17   | 15   | 14   | 12   | 11   | 11   | 11   | 15                     |
| Number of strutting grounds occupied | 7    | 8    | 9    | 12   | 12   | 12   | 9    | 11   | 10   | 6    | 10                     |
| Total male grouse counted            | 106  | 140  | 140  | 206  | 219  | 237  | 166  | 144  | 96   | 137  | 162                    |
| Average males / occupied ground      | 15.1 | 17.5 | 15.6 | 17.2 | 18.3 | 19.8 | 18.4 | 13.1 | 9.6  | 22.8 | 16.1                   |
| <b>Uintah</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 43   | 50   | 57   | 60   | 65   | 61   | 61   | 61   | 58   | 60   | 57                     |
| Number of strutting grounds occupied | 18   | 29   | 38   | 43   | 50   | 48   | 46   | 40   | 25   | 36   | 37                     |
| Total male grouse counted            | 218  | 389  | 557  | 849  | 1085 | 1123 | 577  | 446  | 214  | 313  | 606                    |
| Average males / occupied ground      | 12.1 | 13.4 | 14.7 | 19.7 | 21.7 | 23.4 | 12.5 | 11.2 | 8.6  | 8.7  | 15.3                   |
| <b>Wasatch</b>                       |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 2    | 3    | 2    | 3    | 5    | 5    | 2    | 3    | 1    | 6    | 3                      |
| Number of strutting grounds occupied | 1    | 3    | 2    | 3    | 5    | 3    | 1    | 2    | 1    | 3    | 2                      |
| Total male grouse counted            | 10   | 15   | 18   | 39   | 45   | 42   | 19   | 23   | 23   | 31   | 26                     |
| Average males / occupied ground      | 10.0 | 5.0  | 9.0  | 13.0 | 9.0  | 14.0 | 19.0 | 11.5 | 23.0 | 10.3 | 12.6                   |
| <b>Northeastern Region total</b>     |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 77   | 85   | 86   | 93   | 97   | 93   | 88   | 89   | 82   | 91   | 88                     |
| Number of strutting grounds occupied | 32   | 47   | 54   | 65   | 77   | 72   | 66   | 60   | 43   | 51   | 57                     |
| Total male grouse counted            | 378  | 596  | 763  | 1187 | 1497 | 1603 | 907  | 683  | 361  | 515  | 886                    |
| Average males / occupied ground      | 11.8 | 12.7 | 14.1 | 18.3 | 19.4 | 22.3 | 13.7 | 11.4 | 8.4  | 10.1 | 14.7                   |

Greater sage-grouse strutting ground counts by county for the Southeastern Region, Utah 2011–2020.

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>Carbon</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 21   | 19   | 18   | 18   | 21   | 19   | 20   | 19   | 17   | 18   | 19                     |
| Number of strutting grounds occupied | 11   | 9    | 10   | 10   | 15   | 15   | 14   | 13   | 12   | 11   | 12                     |
| Total male grouse counted            | 115  | 118  | 139  | 156  | 260  | 299  | 248  | 198  | 106  | 126  | 182                    |
| Average males / occupied ground      | 10.5 | 13.1 | 13.9 | 15.6 | 17.3 | 19.9 | 17.7 | 15.2 | 8.8  | 11.5 | 14.7                   |
| <b>Emery</b>                         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 3    | 2    | 3    | 2    | 3    | 3    | 3    | 3    | 3    | 3    | 3                      |
| Number of strutting grounds occupied | 0    | 2    | 1    | 1    | 2    | 2    | 3    | 3    | 3    | 2    | 2                      |
| Total male grouse counted            | —    | 12   | 15   | 22   | 44   | 22   | 24   | 31   | 10   | 5    | 23                     |
| Average males / occupied ground      | —    | 6.0  | 15.0 | 22.0 | 22.0 | 11.0 | 8.0  | 10.3 | 3.3  | 2.5  | 12.2                   |
| <b>Sevier</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2                      |
| Number of strutting grounds occupied | 2    | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 2    | 1    | 2                      |
| Total male grouse counted            | 29   | 27   | 33   | 26   | 27   | 72   | 49   | 22   | 13   | 7    | 33                     |
| Average males / occupied ground      | 14.5 | 27.0 | 33.0 | 13.0 | 13.5 | 36.0 | 24.5 | 11.0 | 6.5  | 7.0  | 19.9                   |
| <b>Utah</b>                          |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 3    | 3    | 3    | 3                      |
| Number of strutting grounds occupied | 3    | 2    | 2    | 3    | 2    | 2    | 2    | 2    | 3    | 3    | 2                      |
| Total male grouse counted            | 60   | 53   | 47   | 71   | 57   | 43   | 28   | 27   | 29   | 34   | 46                     |
| Average males / occupied ground      | 20.0 | 26.5 | 23.5 | 23.7 | 28.5 | 21.5 | 14.0 | 13.5 | 9.7  | 11.3 | 20.1                   |
| <b>Southeastern Region total</b>     |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 29   | 26   | 26   | 25   | 30   | 28   | 29   | 27   | 25   | 26   | 27                     |
| Number of strutting grounds occupied | 16   | 14   | 14   | 16   | 21   | 21   | 21   | 20   | 20   | 17   | 18                     |
| Total male grouse counted            | 204  | 210  | 234  | 275  | 388  | 436  | 349  | 278  | 158  | 172  | 281                    |
| Average males / occupied ground      | 12.8 | 15.0 | 16.7 | 17.2 | 18.5 | 20.8 | 16.6 | 13.9 | 7.9  | 10.1 | 15.5                   |



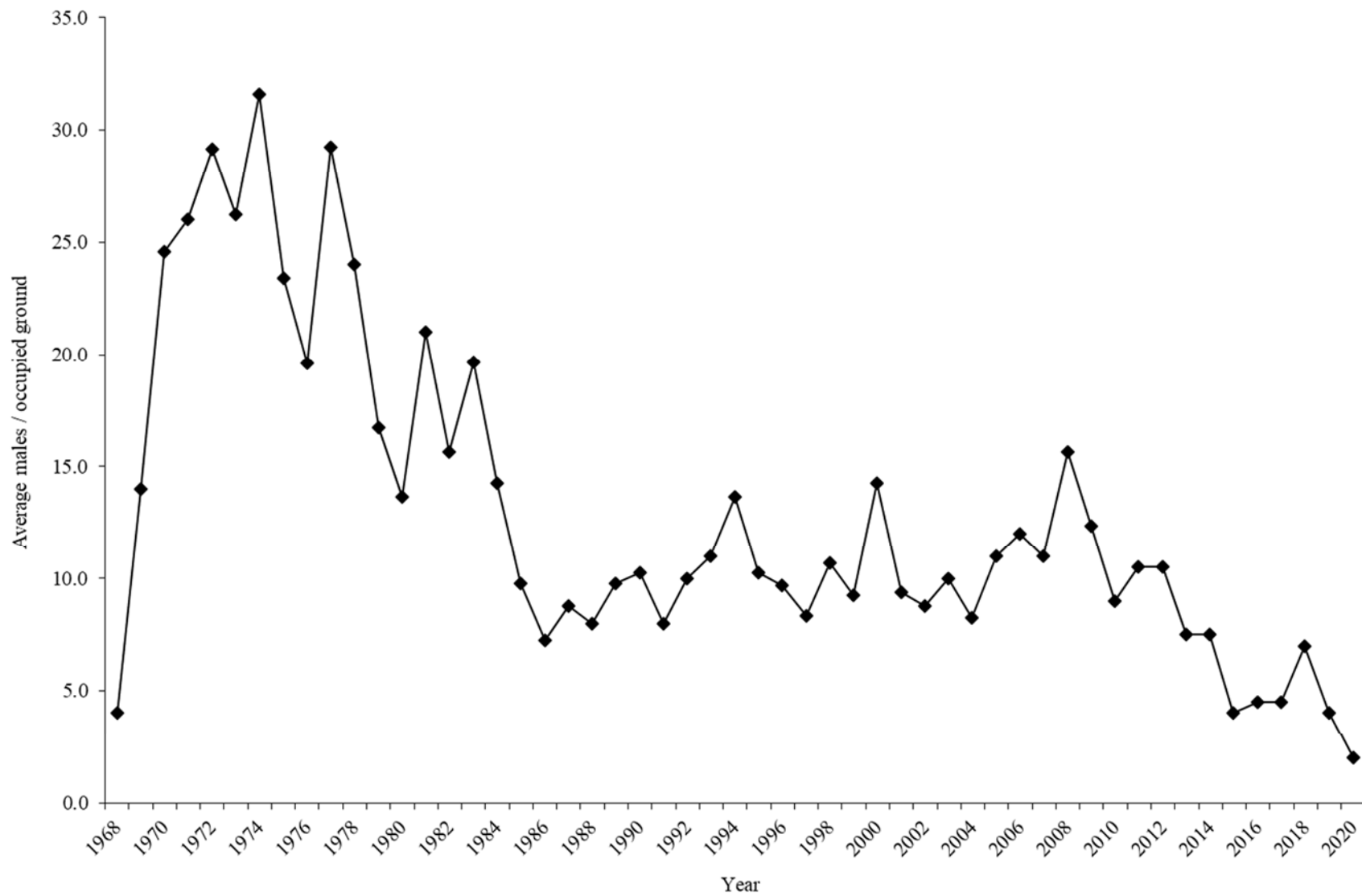
Statewide trends of greater sage-grouse strutting ground counts, Utah 1959–2020.

| 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 1959–2020 (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                                  |
| 2020                | 391                       | 218                        | 2504                      | 11.5                                  |
| Average (1959–2019) | 167                       | 121                        | 2519                      | 21.9                                  |

Statewide trends of average Gunnison sage-grouse males per occupied strutting ground, Utah 1959–2020.



Statewide trends of Gunnison sage-grouse strutting ground counts, Utah 1968–2020.

| 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 1968–2020 (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                                   |
| 2020                | 3                         | 1                          | 2                         | 2.0                                   |
| Average (1959–2019) | 4.4                       | 3.4                        | 49.7                      | 13.1                                  |

Greater sage-grouse wing barrel production counts, Blue/Diamond Mtn, Utah 1999–2019.

| 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          |
| 2019                        | 6            | 1             | 0           | 100                   | 6.0          |
| Average (1980–2018)         | 25           | 18            | 10          | 58                    | 1.6          |
| % change from previous year | 200          | -91           | -100        | 120                   | 2900         |
| % change from average       | -76          | -94           | -100        | 72                    | 286          |

Greater sage-grouse wing barrel production counts, Parker Mtn, Utah 1999–2019.

| 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          |
| 2019                        | 33           | 46            | 8           | —                     | 0.7          |
| Average (1980–2018)         | 56           | 54            | 26          | 54                    | 1.1          |
| % change from previous year | 74           | 10            | 0           | -100                  | 59           |
| % change from average       | -41          | -15           | -70         | -100                  | -37          |

Greater sage-grouse wing barrel production counts, Rich County, Utah 2010–2019.

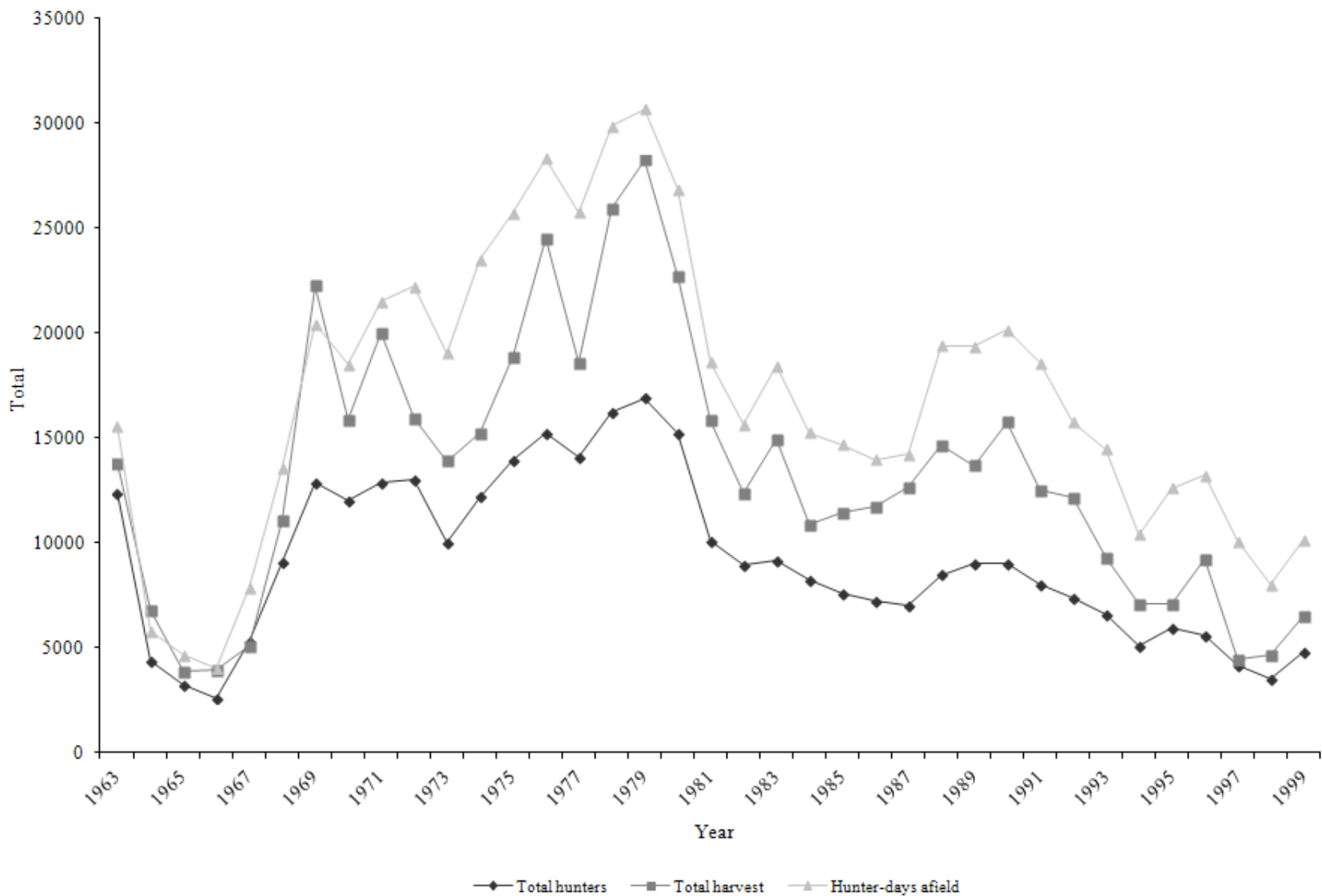
| Year                        | Total chicks | Total females | Total males | Chicks / hen |
|-----------------------------|--------------|---------------|-------------|--------------|
| 2010                        | 8            | 32            | 45          | 0.3          |
| 2011                        | 3            | 7             | 8           | 0.4          |
| 2012                        | 1            | 2             | 3           | 0.5          |
| 2013                        | 0            | 6             | 3           | 0.0          |
| 2014                        | 2            | 1             | 1           | 2.0          |
| 2015                        | 15           | 11            | 3           | 1.4          |
| 2016                        | 0            | 0             | 1           | —            |
| 2017                        | 0            | 2             | 5           | 0.0          |
| 2018                        | 0            | 1             | 0           | 0.0          |
| 2019                        | 1            | 2             | 0           | 0.5          |
| Average (1980–2018)         | 3            | 7             | 8           | 0.6          |
| % change from previous year | —            | 100           | 0           | —            |
| % change from average       | -69          | -71           | -100        | -12          |

Greater sage-grouse wing barrel production counts, West Box Elder, Utah 2010–2019.

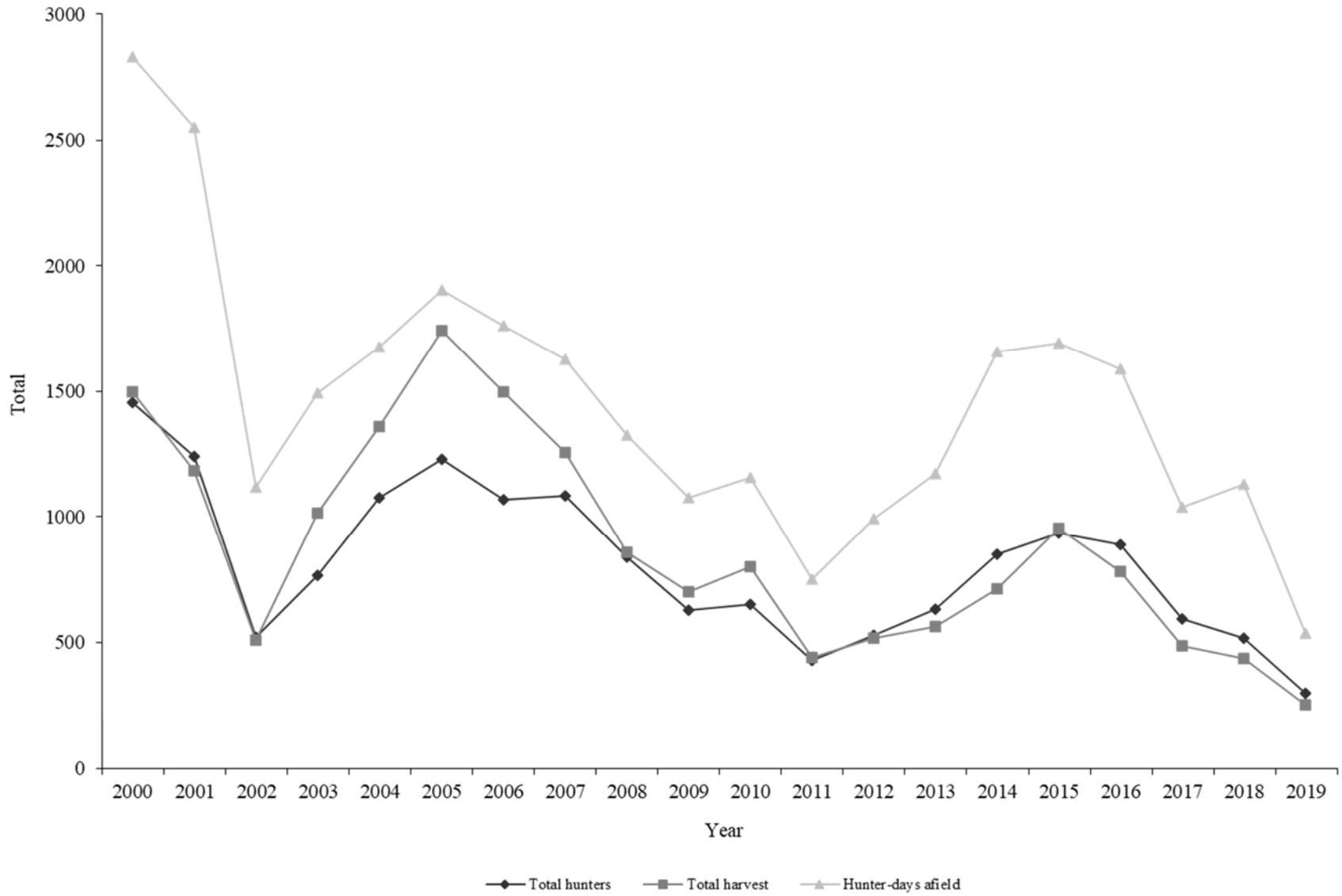
| Year                        | Total chicks | Total females | Total males | Nest success rate (%) | Chicks / hen |
|-----------------------------|--------------|---------------|-------------|-----------------------|--------------|
| 2010                        | 4            | 11            | 9           | —                     | 0.4          |
| 2011                        | 0            | 9             | 2           | —                     | 0.0          |
| 2012                        | 1            | 1             | 1           | —                     | 1.0          |
| 2013                        | 10           | 10            | 3           | 40.0                  | 1.0          |
| 2014                        | 9            | 6             | 2           | 66.7                  | 1.5          |
| 2015                        | 7            | 26            | 12          | 38.5                  | 0.3          |
| 2016                        | 7            | 38            | 6           | 50.0                  | 0.2          |
| 2017                        | 2            | 20            | 5           | —                     | 0.1          |
| 2018                        | 2            | 16            | 15          | —                     | 0.1          |
| 2019                        | 0            | 2             | 5           | —                     | 0.0          |
| Average (1980–2018)         | 5            | 15            | 6           | 49                    | 0.5          |
| % change from previous year | -100         | -88           | -67         | —                     | -100         |
| % change from average       | -100         | -87           | -18         | -100                  | -100         |



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

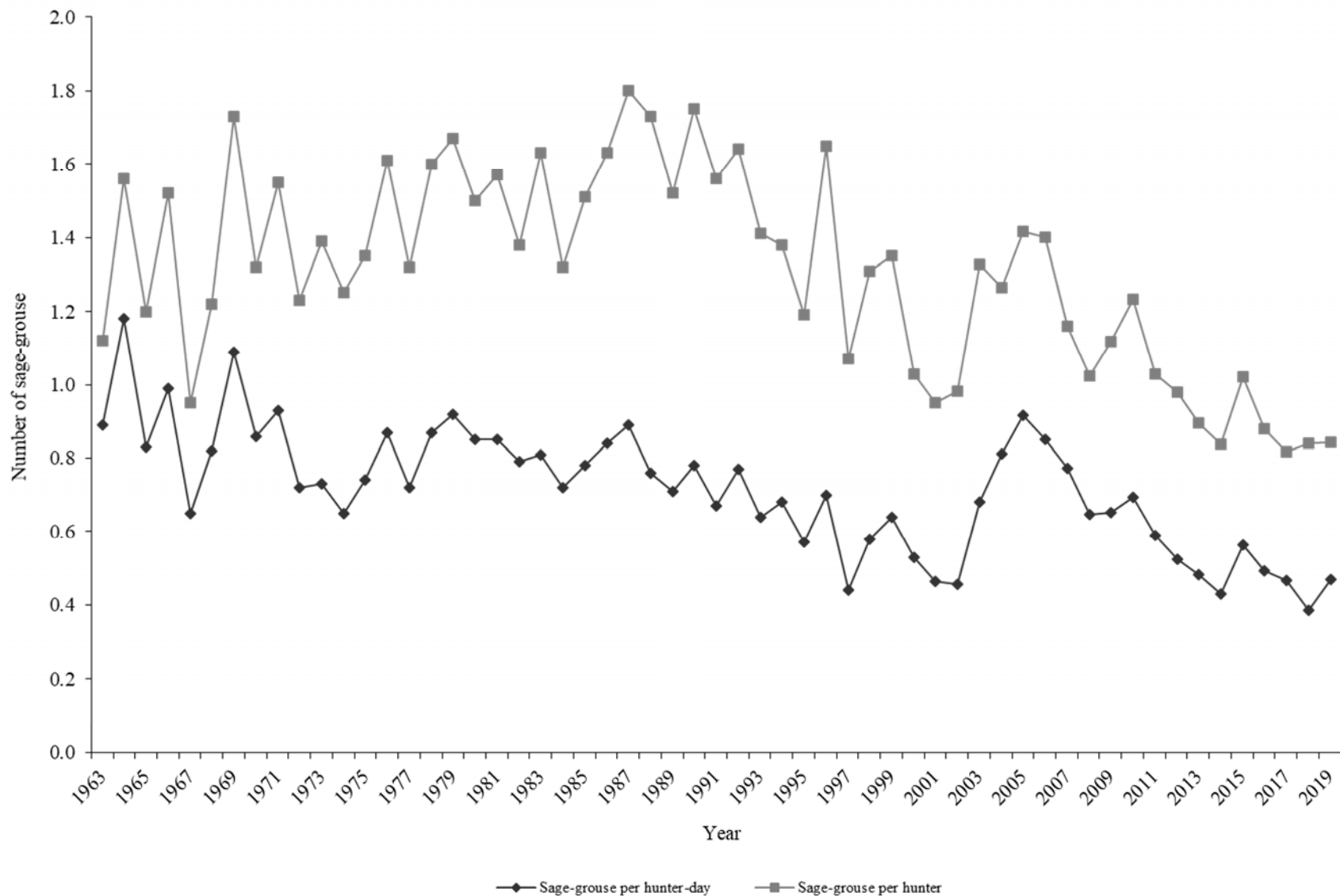


Statewide trends of greater sage-grouse harvest statistics, Utah 2000–2019.



\*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 1963–2019.



\*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 2019.

| 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 | 22            | 17  | 17             | 22            | 29                 | 0.8                 | 1.3             | 76.9             |
| SG1001      | Parker Mtn       | 147           | 88  | 110            | 142           | 223                | 0.6                 | 1.3             | 69.7             |
| SG1002      | Rich County      | 101           | 62  | 78             | 42            | 140                | 0.3                 | 0.5             | 35.4             |
| SG1003      | West Box Elder   | 174           | 98  | 94             | 46            | 144                | 0.3                 | 0.5             | 30.2             |
|             | Statewide total  | 444           | 265 | 299            | 252           | 536                | 0.5                 | 0.9             | 49.4             |

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

Statewide greater sage-grouse harvest statistics, Utah 1951–2019.

| 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             |
| 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             |

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 1951–2019 (continued).

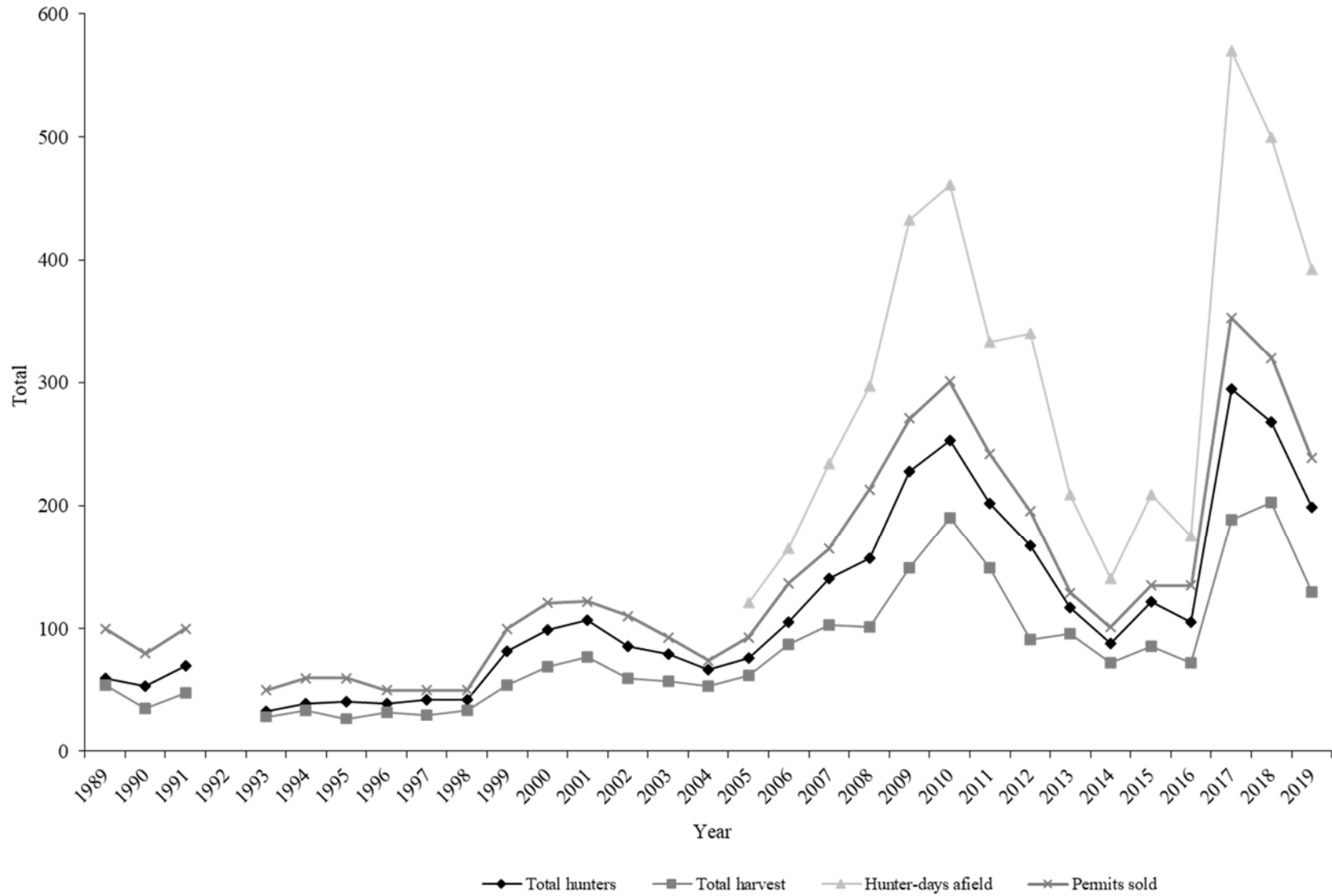
| Year                        | Total hunters | Total harvest | Hunter-days afield | Grouse / hunter-day | Grouse / hunter |
|-----------------------------|---------------|---------------|--------------------|---------------------|-----------------|
| 1990                        | 9014          | 15784         | 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             |
| 2019                        | 299           | 252           | 536                | 0.5                 | 0.8             |
| Average (1951–2018)         | 5358          | 7927          | 11595              | 0.7                 | 1.6             |
| % change from previous year | -42           | -42           | -53                | 22                  | 0               |
| % change from average       | -94           | -97           | -95                | -35                 | -46             |

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

# SANDHILL CRANE



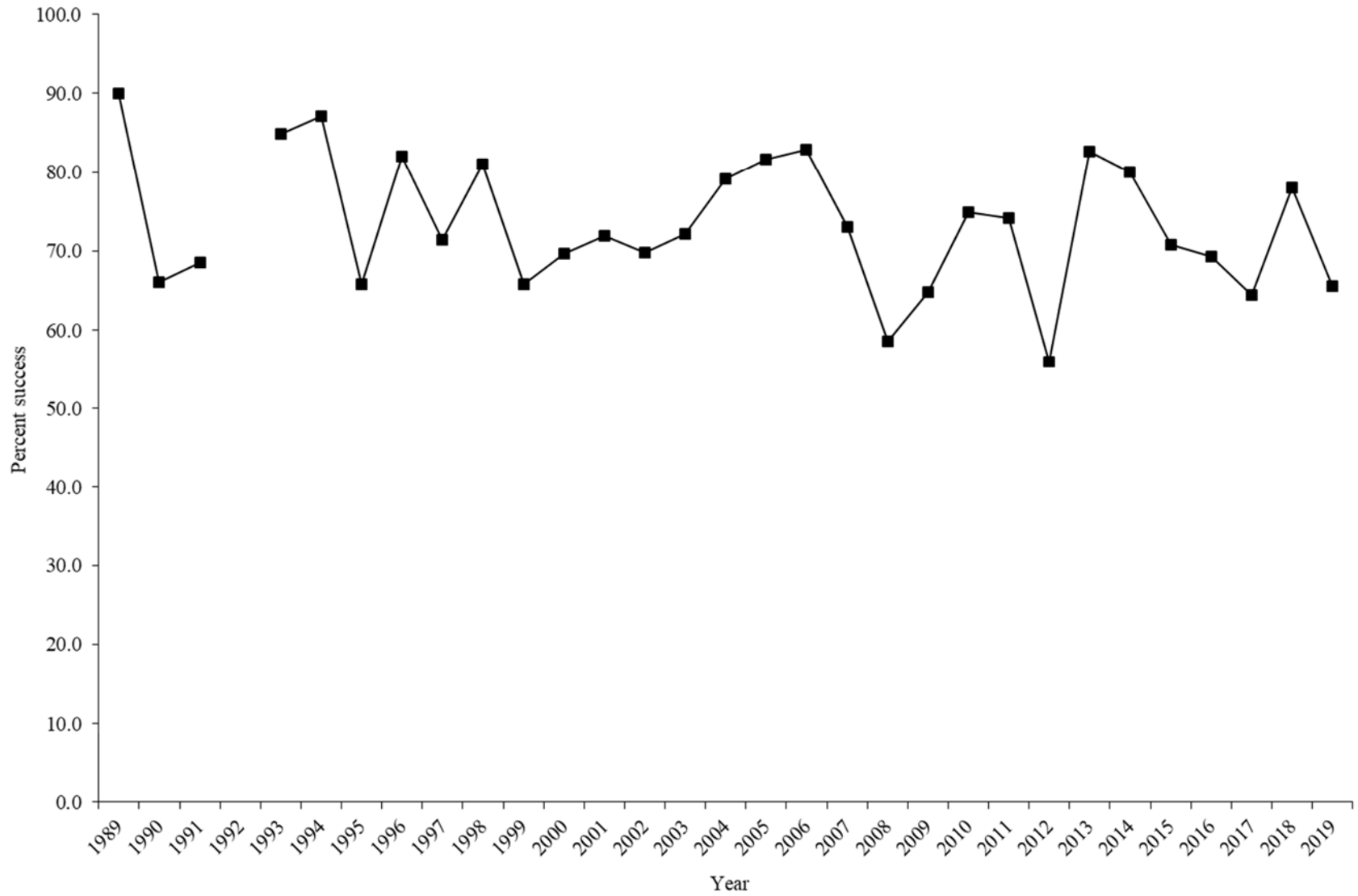
Statewide trends of sandhill crane harvest statistics, Utah 1989–2019.



\* No permits were issued in 1992.



Statewide trends of sandhill crane hunter success, Utah 1989–2019.



\*No permits were issued in 1992.

Sandhill crane harvest statistics by hunt area, Utah 2019.

| 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       | 73            | 54  | 59             | 31            | 3             | 0               | 34            | 109                | 0.3                | 56.8            |
| SC1001      | Cache County         | 77            | 53  | 65             | 35            | 1             | 0               | 36            | 152                | 0.2                | 55.6            |
| SC1002      | Rich County          | 15            | 11  | 12             | 8             | 0             | 0               | 8             | 17                 | 0.5                | 66.7            |
| SC1003      | Uintah County early  | 24            | 18  | 20             | 16            | 1             | 0               | 17            | 37                 | 0.5                | 86.7            |
| SC1004      | Uintah County middle | 25            | 22  | 19             | 13            | 2             | 0               | 15            | 37                 | 0.4                | 76.5            |
| SC1005      | Uintah County late   | 25            | 19  | 24             | 17            | 3             | 0               | 20            | 40                 | 0.5                | 83.3            |
|             | Total                | 239           | 177 | 199            | 120           | 10            | 0               | 130           | 392                | 0.3                | 65.5            |

Statewide sandhill crane harvest statistics, Utah 1989–2019.

| 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            |
| 2019                        | 239          | 199           | 120           | 10            | 130           | 392                | 0.3                | 65.5            |
| Average (1989–2018)         | 138          | 113           | 71            | 9             | 81            | 299                | 0.4                | 73.7            |
| % change from previous year | -25          | -26           | -34           | -44           | -36           | -22                | -18                | -16             |
| % change from average       | 73           | 77            | 70            | 7             | 61            | 31                 | -20                | -11             |

\* One crane of unknown age

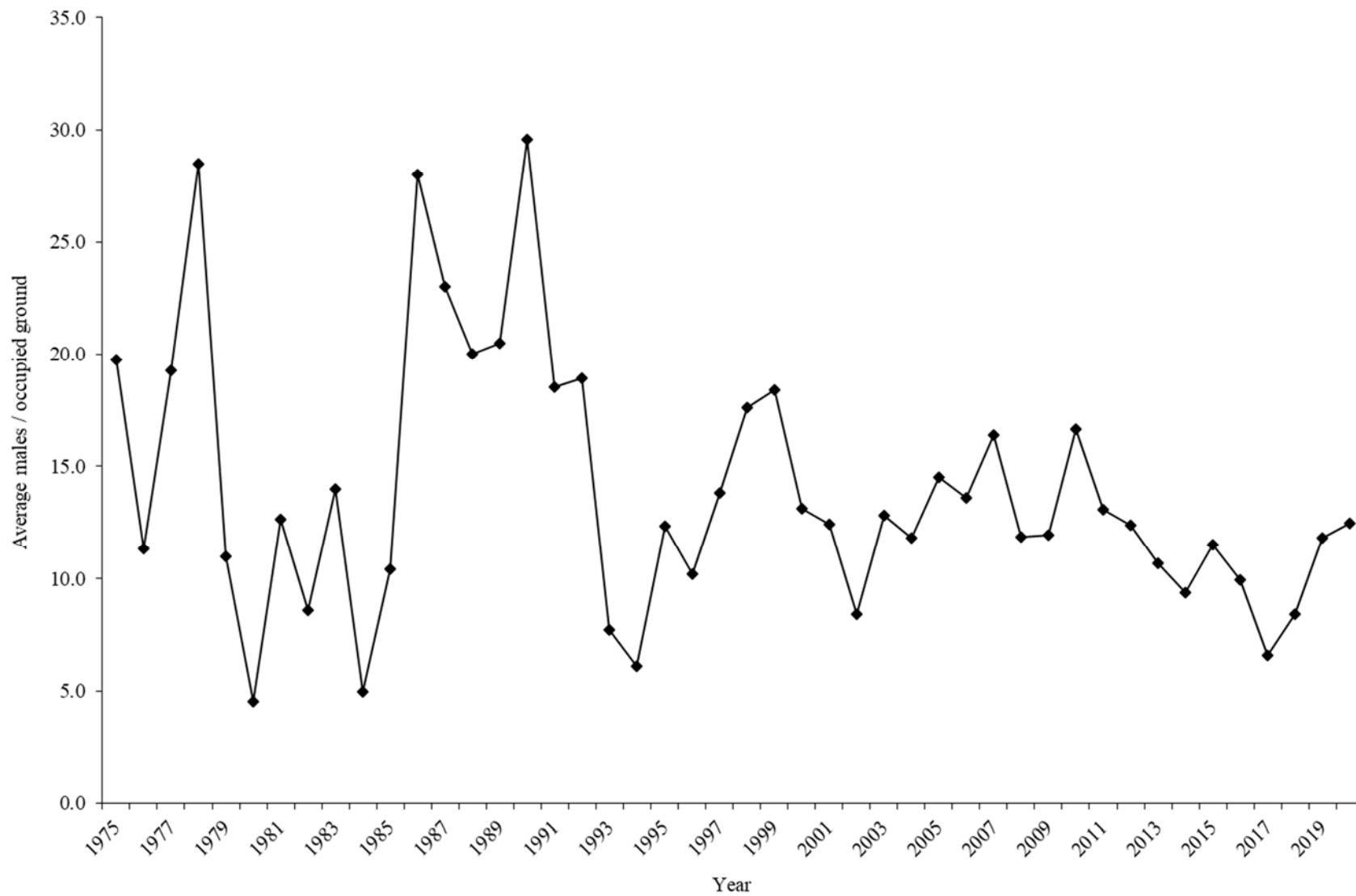
\*\* Two cranes of unknown age

\*\*\* Three cranes of unknown age

# SHARP-TAILED GROUSE



Statewide trends of average sharp-tailed grouse males per occupied strutting ground, Utah 1975–2020.



Strutting ground counts of sharp-tailed grouse by county, Utah 2011–2020.

|                                      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Average<br>(2011–2019) |
|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <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  | 58   | 61   | 62   | 56   | 57   | 62   | 53   | 42   | 54   | 37   | 54                     |
| Number of strutting grounds occupied | 40   | 41   | 34   | 24   | 27   | 27   | 19   | 14   | 19   | 17   | 26                     |
| Total male grouse counted            | 500  | 503  | 348  | 216  | 283  | 233  | 90   | 101  | 225  | 218  | 272                    |
| Average males / occupied grounds     | 12.5 | 12.3 | 10.2 | 9.0  | 10.5 | 8.6  | 4.7  | 7.2  | 11.8 | 12.8 | 10.0                   |
| <b>Cache</b>                         |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 9    | 12   | 11   | 9    | 10   | 19   | 13   | 12   | 7    | 11   | 11                     |
| Number of strutting grounds occupied | 6    | 5    | 6    | 9    | 9    | 14   | 13   | 12   | 7    | 10   | 9                      |
| Total male grouse counted            | 83   | 79   | 88   | 104  | 124  | 163  | 117  | 114  | 83   | 119  | 107                    |
| Average males / occupied grounds     | 13.8 | 15.8 | 14.7 | 11.6 | 13.8 | 11.6 | 9.0  | 9.5  | 11.9 | 11.9 | 12.4                   |
| <b>Morgan</b>                        |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 1    | —    | 2    | 1    | —    | —    | —    | 1    | —    | —    | 1                      |
| Number of strutting grounds occupied | 1    | —    | 2    | 1    | —    | —    | —    | 0    | —    | —    | 1                      |
| Total male grouse counted            | 45   | —    | 17   | 4    | —    | —    | —    | 0    | —    | —    | 17                     |
| Average males / occupied grounds     | 45.0 | —    | 8.5  | 4.0  | —    | —    | —    | —    | —    | —    | 19.2                   |
| <b>Weber</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    | 1    | 1    | 1    | —    | —    | 1                      |
| Total male grouse counted            | 8    | 9    | 11   | 7    | 22   | 22   | 12   | 13   | —    | —    | 13                     |
| Average males / occupied grounds     | 8.0  | 9.0  | 11.0 | 7.0  | 22.0 | 22.0 | 12.0 | 13.0 | —    | —    | 13.0                   |
| <b>Statewide total</b>               |      |      |      |      |      |      |      |      |      |      |                        |
| Number of strutting grounds visited  | 70   | 75   | 77   | 68   | 69   | 82   | 68   | 57   | 62   | 48   | 68                     |
| Number of strutting grounds occupied | 49   | 48   | 44   | 36   | 38   | 42   | 33   | 27   | 26   | 27   | 37                     |
| Total male grouse counted            | 643  | 596  | 469  | 338  | 437  | 418  | 219  | 228  | 308  | 337  | 399                    |
| Average males / occupied grounds     | 13.1 | 12.4 | 10.7 | 9.4  | 11.5 | 10.0 | 6.6  | 8.4  | 11.8 | 12.5 | 10.6                   |

Statewide trends of sharp-tailed grouse strutting ground counts, Utah 1975–2020.

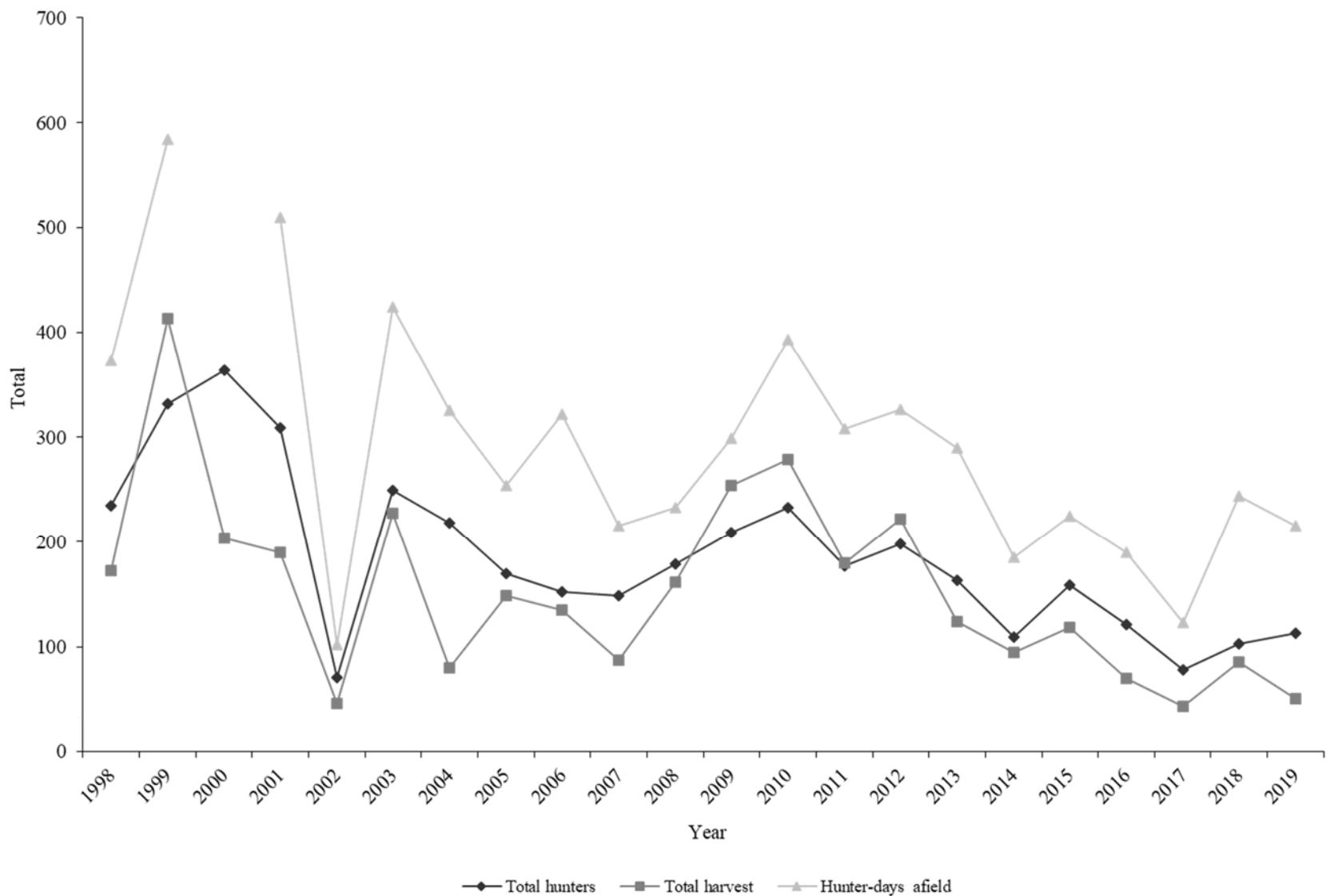
| Year | Number of grounds visited | Number of occupied grounds | Total male grouse counted | Average male grouse / occupied ground |
|------|---------------------------|----------------------------|---------------------------|---------------------------------------|
| 1975 | 4                         | 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 1975–2020 (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                                  |
| 2020                | 48                        | 27                         | 337                       | 12.5                                  |
| Average (1975–2019) | 38.9                      | 25.6                       | 335.7                     | 13.9                                  |

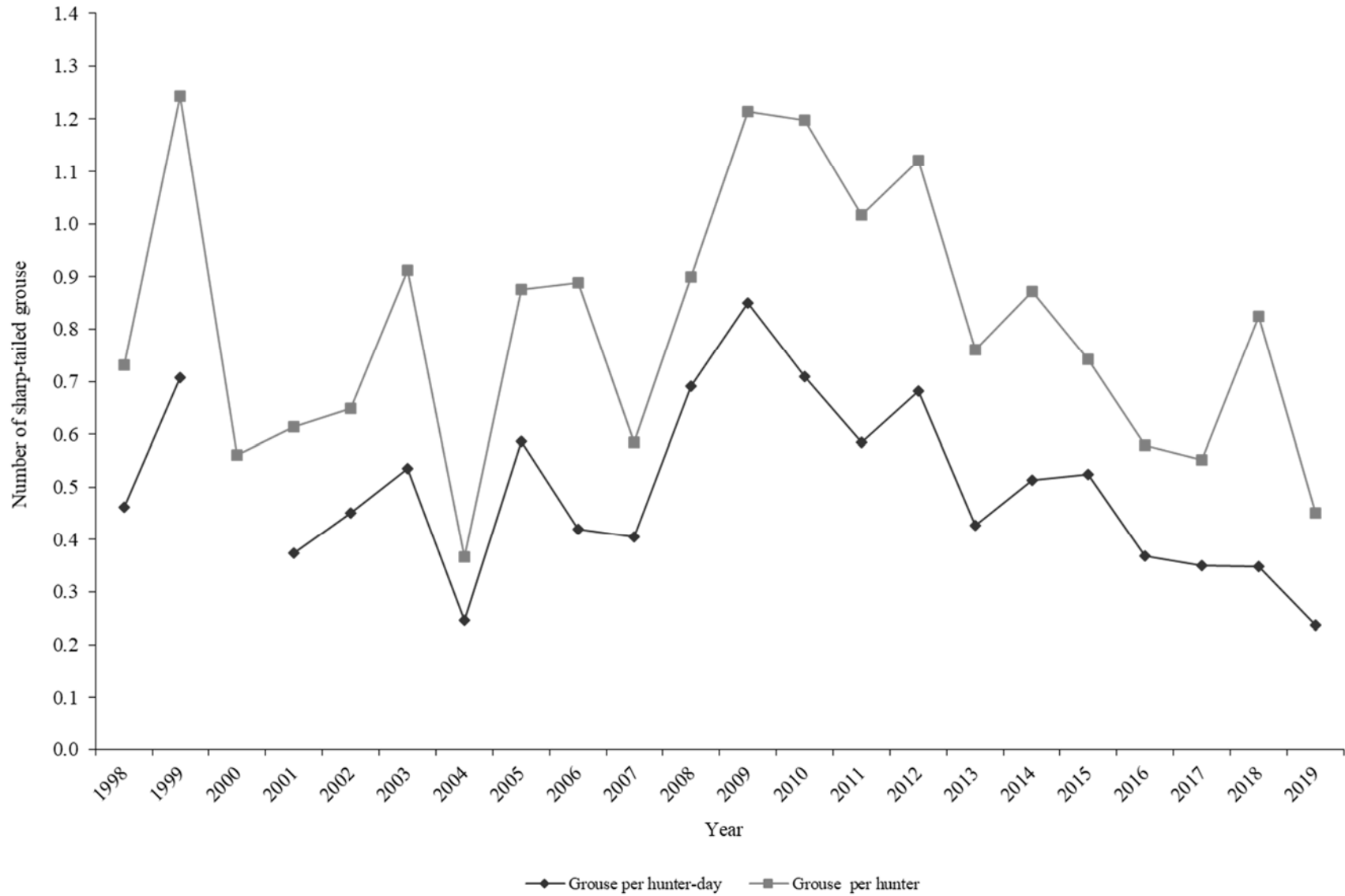


Statewide trends of sharp-tailed grouse harvest statistics, Utah 1998–2019.



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

Statewide trends of sharp-tailed grouse hunter success, Utah 1998–2019.



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

Sharp-tailed grouse harvest statistics by hunt area, Utah 2019.

| 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 | 200           | 111 | 86             | 29            | 156                | 0.2                 | 0.3             | 20.8             |
| ST1001      | Cache               | 60            | 36  | 27             | 22            | 59                 | 0.4                 | 0.8             | 43.8             |
|             | Total*              | 260           | 147 | 113            | 51            | 215                | 0.2                 | 0.5             | 26.6             |

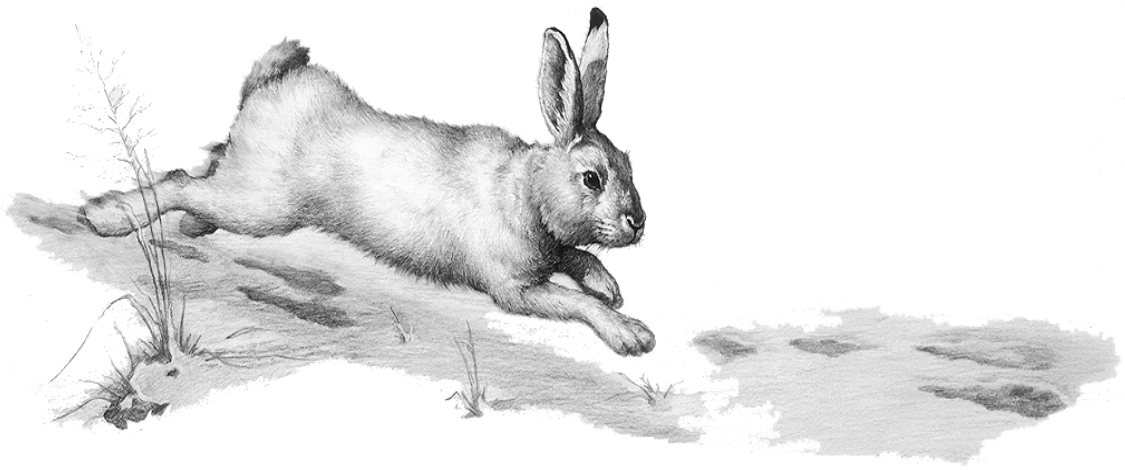
\*Hunters could harvest 2 birds. Hunters were considered successful if they harvested at least 1 bird.

Statewide sharp-tailed grouse harvest statistics, Utah 1998–2019.

| 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             |
| 2019                        | 260          | 113           | 51            | 215                | 0.2                 | 0.5             |
| Average (1998–2018)         | 326          | 186           | 154           | 292                | 0.5                 | 0.8             |
| % change from previous year | 38           | 10            | -40           | -12                | -32                 | -45             |
| % change from average       | -20          | -39           | -67           | -26                | -54                 | -45             |

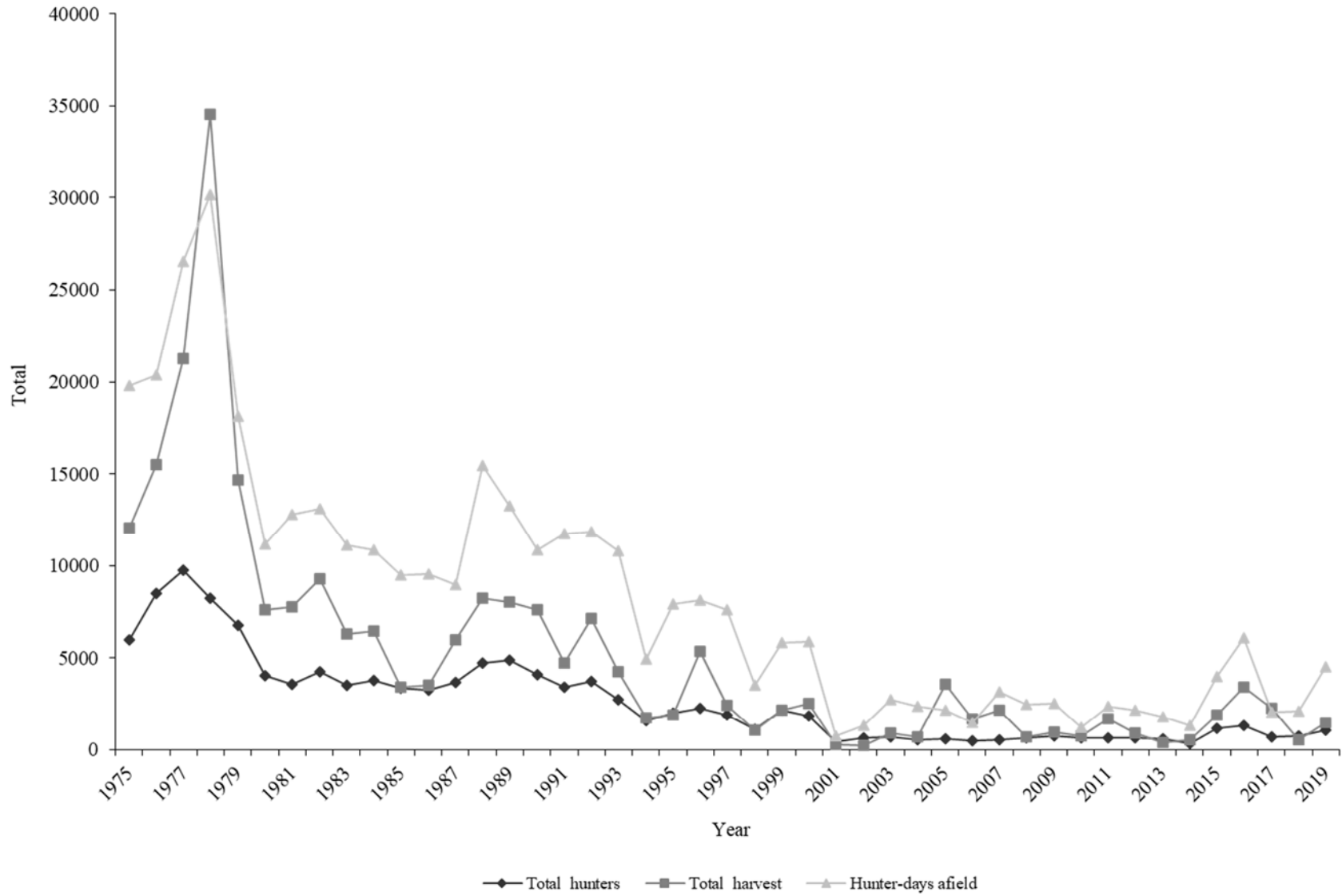
\*Hunter-days afield data was not collected in 2000.

# SNOWSHOE HARE

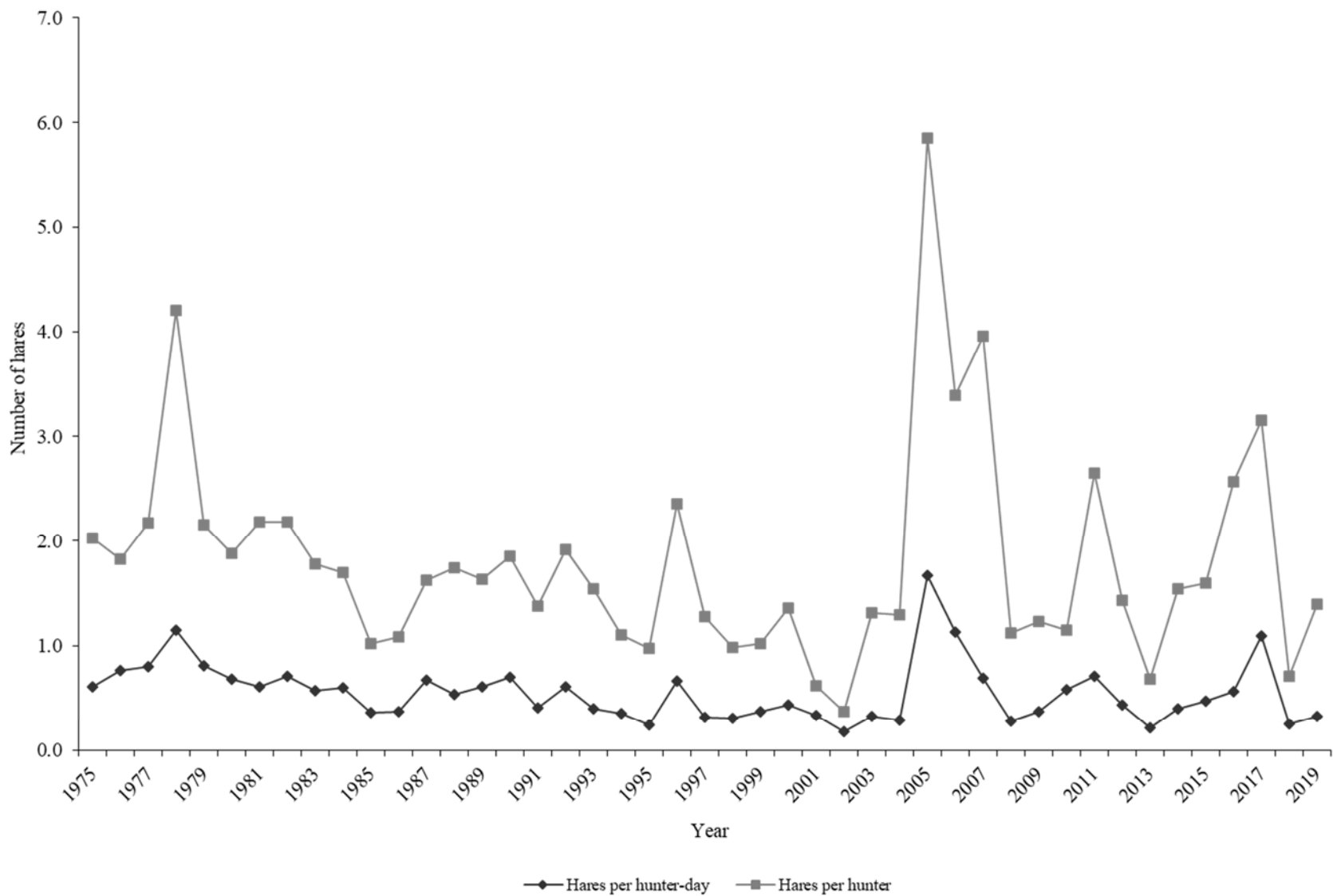


CLARK BRONSON

Statewide trends of snowshoe hare harvest statistics, Utah 1975–76 to 2019–2020.



Statewide trends of snowshoe hare hunter success, Utah 1975–76 to 2019–2020.



Snowshoe hare harvest statistics by region and county, Utah 2019–2020.

| Region and county   | n  | Hunters<br>afield | Hunter-days<br>afield | Hares<br>bagged | Hares /<br>hunter-day | %<br>pressure | %<br>harvest |
|---------------------|----|-------------------|-----------------------|-----------------|-----------------------|---------------|--------------|
| Northern Region     |    |                   |                       |                 |                       |               |              |
| Box Elder           | 10 | 145               | 1457                  | 56              | 0.0                   | 32.3          | 3.8          |
| Cache               | 11 | 160               | 680                   | 84              | 0.1                   | 15.1          | 5.7          |
| Davis               | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Morgan              | 1  | 15                | 364                   | 279             | 0.8                   | 8.1           | 18.9         |
| Rich                | 1  | 15                | 24                    | 28              | 1.2                   | 0.5           | 1.9          |
| Summit              | 5  | 73                | 97                    | 28              | 0.3                   | 2.2           | 1.9          |
| Weber               | 5  | 73                | 219                   | 251             | 1.1                   | 4.8           | 17.0         |
| Regional total      | 33 | 481               | 2841                  | 726             | 0.3                   | 62.9          | 49.1         |
| Central Region      |    |                   |                       |                 |                       |               |              |
| Juab                | 3  | 44                | 85                    | 56              | 0.7                   | 1.9           | 3.8          |
| Salt Lake           | 2  | 29                | 24                    | 0               | 0.0                   | 0.5           | 0.0          |
| Sanpete             | 2  | 29                | 49                    | 0               | 0.0                   | 1.1           | 0.0          |
| Tooele              | 4  | 58                | 97                    | 0               | 0.0                   | 2.2           | 0.0          |
| Utah                | 7  | 102               | 364                   | 335             | 0.9                   | 8.1           | 22.6         |
| Wasatch             | 1  | 15                | 24                    | 0               | 0.0                   | 0.5           | 0.0          |
| Regional total      | 19 | 277               | 643                   | 391             | 0.6                   | 14.2          | 26.4         |
| Southern Region     |    |                   |                       |                 |                       |               |              |
| Beaver              | 2  | 29                | 24                    | 0               | 0.0                   | 0.5           | 0.0          |
| Garfield            | 1  | 15                | 134                   | 0               | 0.0                   | 3.0           | 0.0          |
| Iron                | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Kane                | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Millard             | 1  | 15                | 12                    | 56              | 4.7                   | 0.3           | 3.8          |
| Piute               | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Sevier              | 2  | 29                | 85                    | 0               | 0.0                   | 1.9           | 0.0          |
| Washington          | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Wayne               | 1  | 15                | 12                    | 0               | 0.0                   | 0.3           | 0.0          |
| Regional total      | 7  | 103               | 267                   | 56              | 0.2                   | 5.9           | 3.8          |
| Northeastern Region |    |                   |                       |                 |                       |               |              |
| Daggett             | 4  | 58                | 219                   | 28              | 0.1                   | 4.8           | 1.9          |
| Duchesne            | 1  | 15                | 12                    | 28              | 2.3                   | 0.3           | 1.9          |
| Uintah              | 7  | 102               | 267                   | 140             | 0.5                   | 5.9           | 9.4          |
| Regional total      | 12 | 175               | 498                   | 196             | 0.4                   | 11.0          | 13.2         |
| Southeastern Region |    |                   |                       |                 |                       |               |              |
| Carbon              | 6  | 87                | 219                   | 112             | 0.5                   | 4.8           | 7.5          |
| Emery               | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Grand               | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| San Juan            | 0  | 0                 | —                     | —               | —                     | 0.0           | 0.0          |
| Regional total      | 6  | 87                | 219                   | 112             | 0.5                   | 4.8           | 7.5          |
| Unknown             | 3  | 44                | 49                    | 0               | 0.0                   | 1.1           | 0.0          |
| Statewide total*    | 73 | 1059              | 4518                  | 1481            | 0.3                   | 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 2019–2020.

| 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            |

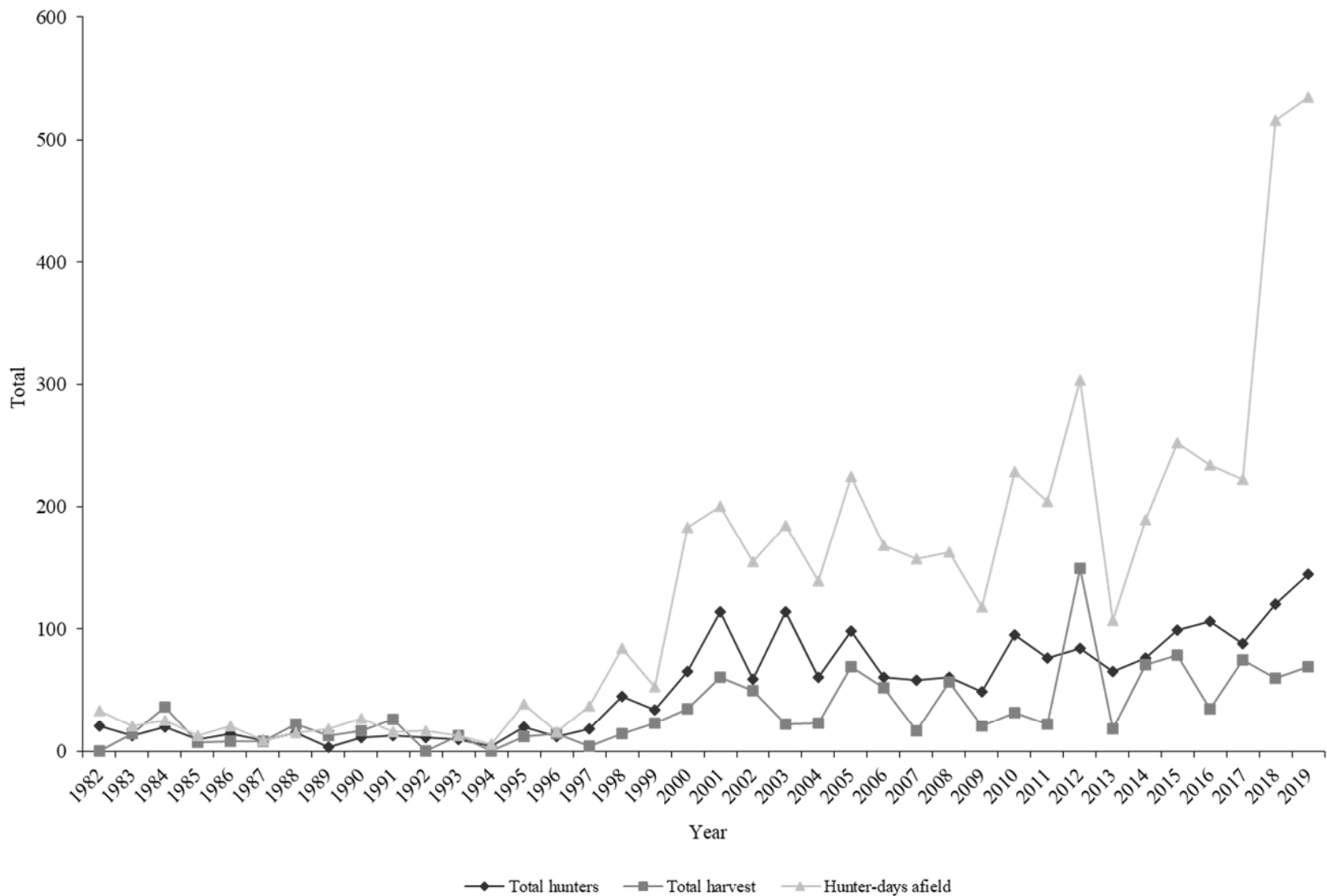
Statewide snowshoe hare harvest statistics, Utah 1975–76 to 2019–2020 (continued).

| 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            |
| 2019–20                     | 1059          | 1481          | 4518               | 0.3                | 1.4            |
| Average (1975–2019)         | 2666          | 5204          | 8220               | 0.6                | 1.8            |
| % change from previous year | 45            | 184           | 113                | 33                 | 96             |
| % change from average       | -60           | -72           | -45                | -41                | -23            |

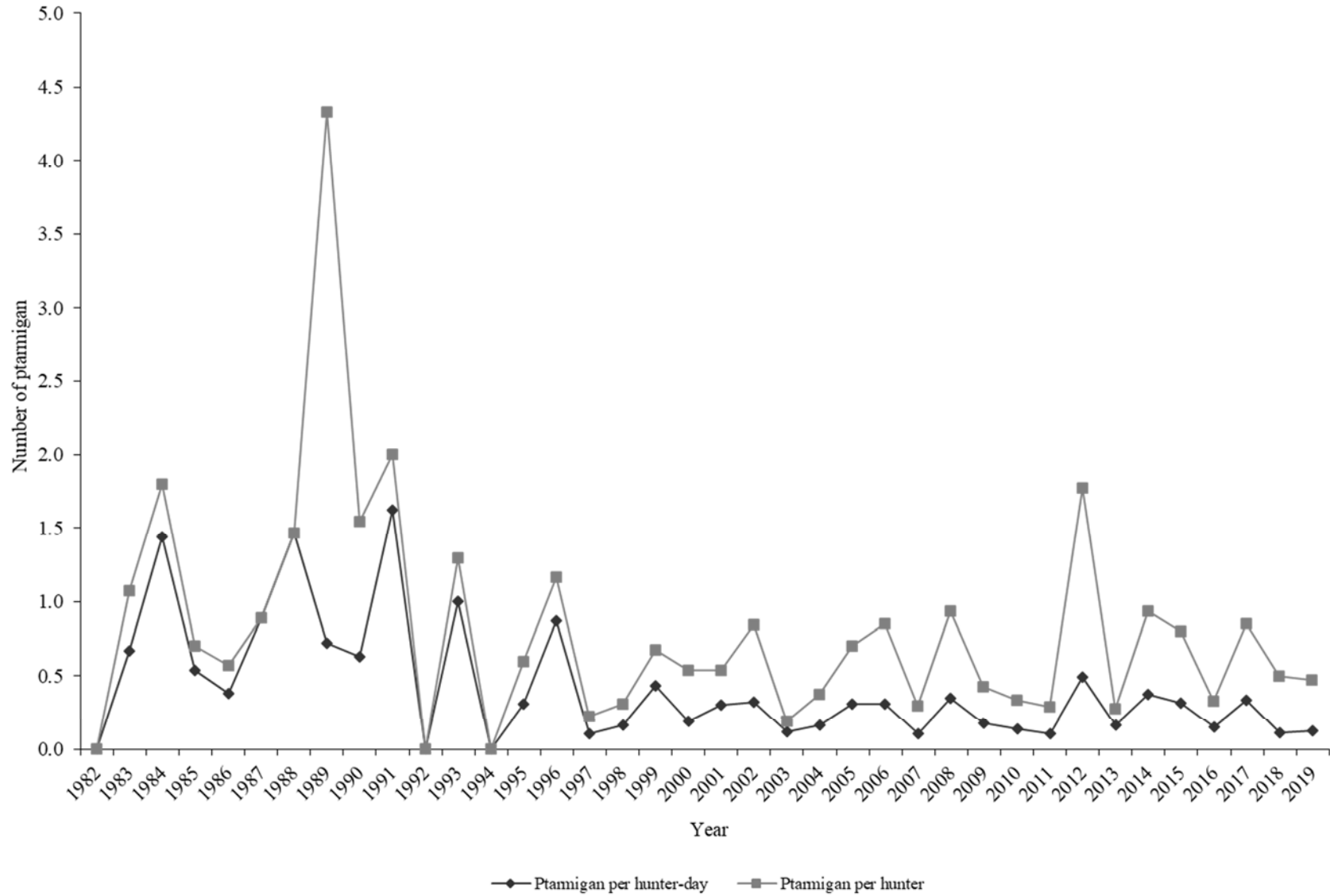
# WHITE-TAILED PTARMIGAN



Statewide trends of white-tailed ptarmigan harvest statistics, Utah 1982–2019.



Statewide trends of white-tailed ptarmigan hunter success, Utah 1982–2019.



White-tailed ptarmigan harvest statistics by region and county, Utah 2019.

| Region and county   | n  | Hunters<br>afield | Hunter-days<br>afield | Ptarmigan<br>bagged | Ptarmigan /<br>hunter-day | %<br>pressure | %<br>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                | 1  | 3                 | 9                     | 0                   | 0.0                       | 1.7           | 0.0          |
| Summit              | 11 | 35                | 66                    | 50                  | 0.8                       | 12.3          | 72.5         |
| Weber               | 0  | 0                 | —                     | —                   | —                         | 0.0           | 0.0          |
| Regional total      | 12 | 38                | 75                    | 50                  | 0.7                       | 14.0          | 73.5         |
| 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                 | 16                    | 0                   | 0.0                       | 3.0           | 0.0          |
| Utah                | 1  | 3                 | 3                     | 0                   | 0.0                       | 0.6           | 0.0          |
| Wasatch             | 1  | 3                 | 63                    | 0                   | 0.0                       | 11.8          | 0.0          |
| Regional total      | 3  | 9                 | 82                    | 0                   | 0.0                       | 15.3          | 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             | 6  | 19                | 54                    | 0                   | 0.0                       | 10.1          | 0.0          |
| Duchesne            | 7  | 22                | 47                    | 9                   | 0.2                       | 8.8           | 13.0         |
| Uintah              | 12 | 38                | 98                    | 9                   | 0.1                       | 18.3          | 13.0         |
| Regional total      | 25 | 79                | 199                   | 18                  | 0.1                       | 37.2          | 26.5         |
| 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             | 9  | 28                | 179                   | 0                   | 0.0                       | 33.5          | 0.0          |
| Statewide total**   | 46 | 145               | 535                   | 69                  | 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 1982–2019.

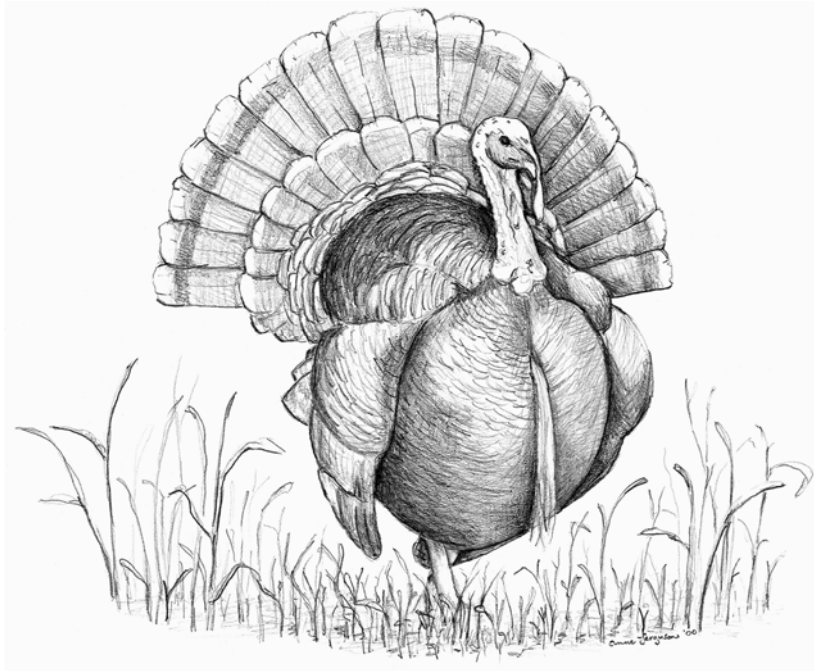
| Year | Total hunters | Total harvest | Hunter-days afield | Ptarmigan / hunter-day | Ptarmigan / hunter |
|------|---------------|---------------|--------------------|------------------------|--------------------|
| 1982 | 21            | 0             | 33                 | 0.0                    | 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                |

Statewide white-tailed ptarmigan harvest statistics, Utah 1982–2019 (continued).

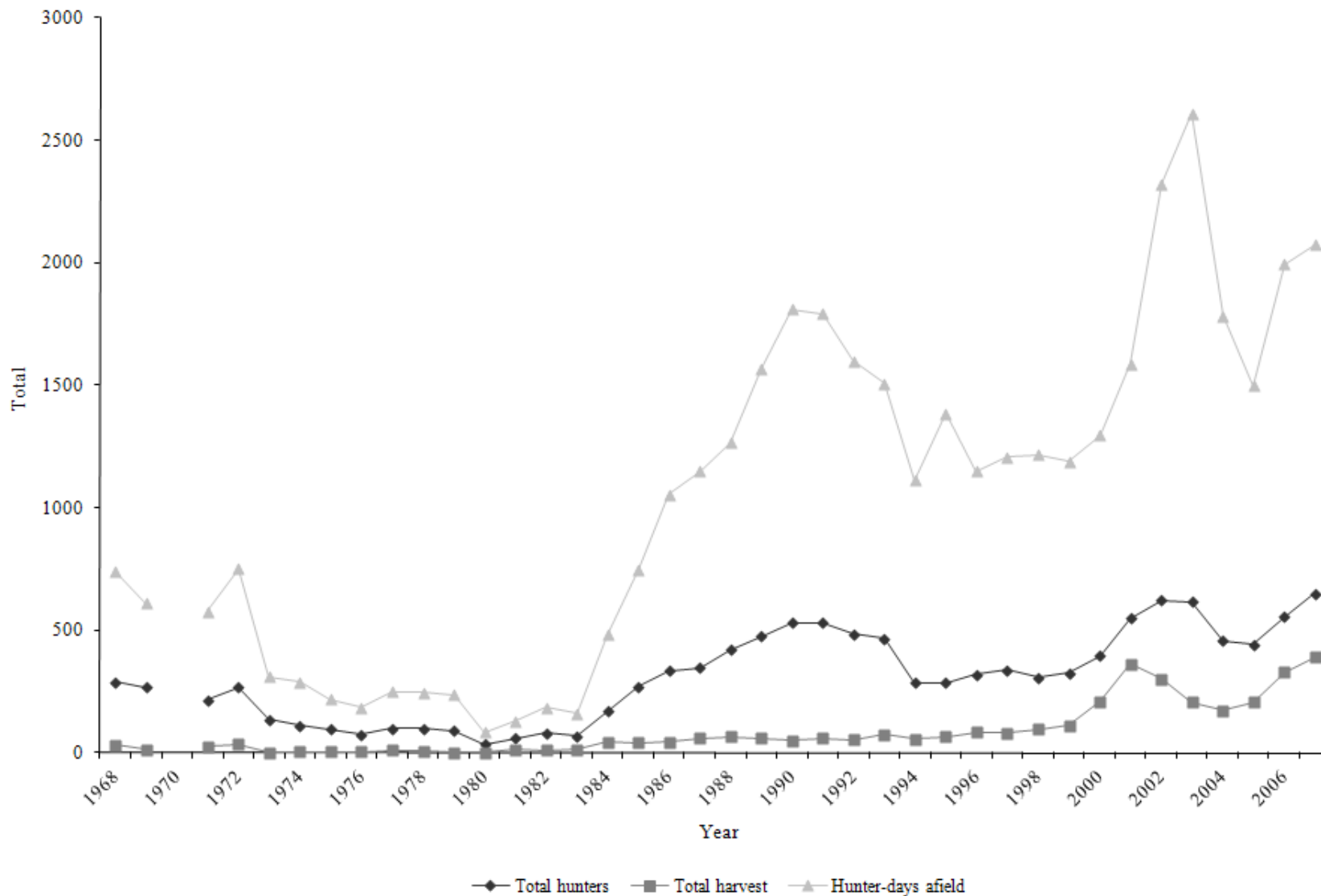
| Year                        | Total hunters | Total harvest | Hunter-days afield | Ptarmigan / hunter-day | Ptarmigan / hunter |
|-----------------------------|---------------|---------------|--------------------|------------------------|--------------------|
| 2017                        | 88            | 75            | 222                | 0.3                    | 0.9                |
| 2018                        | 120           | 60            | 516                | 0.1                    | 0.5                |
| 2019                        | 145           | 69            | 535                | 0.1                    | 0.5                |
| Average (1982–2018)         | 50            | 32            | 119                | 0.4                    | 0.8                |
| % change from previous year | 21            | 15            | 4                  | 11                     | -5                 |
| % change from average       | 193           | 117           | 349                | -70                    | -42                |



# WILD TURKEY



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

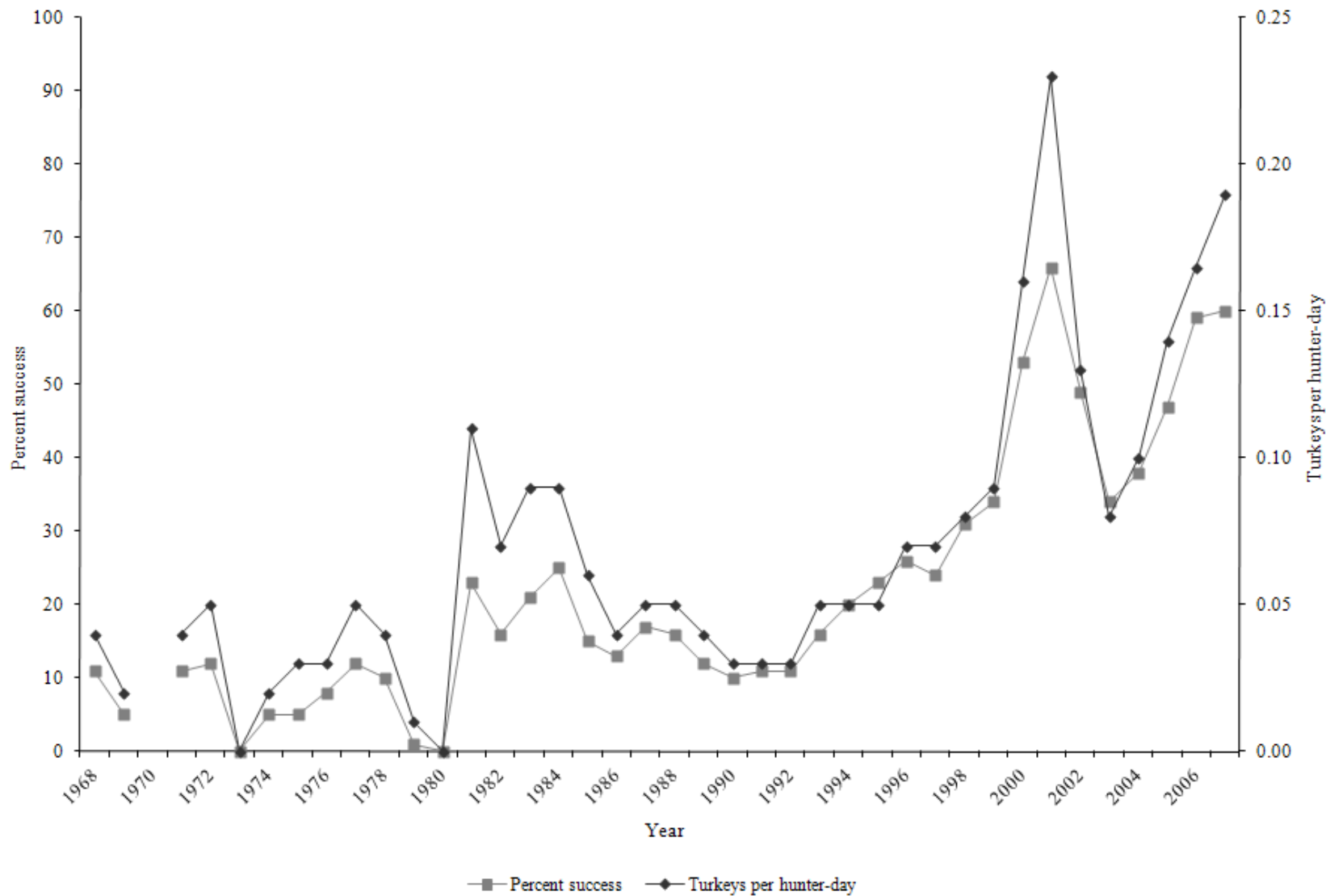


\*No spring season in 1970.

\*\*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.

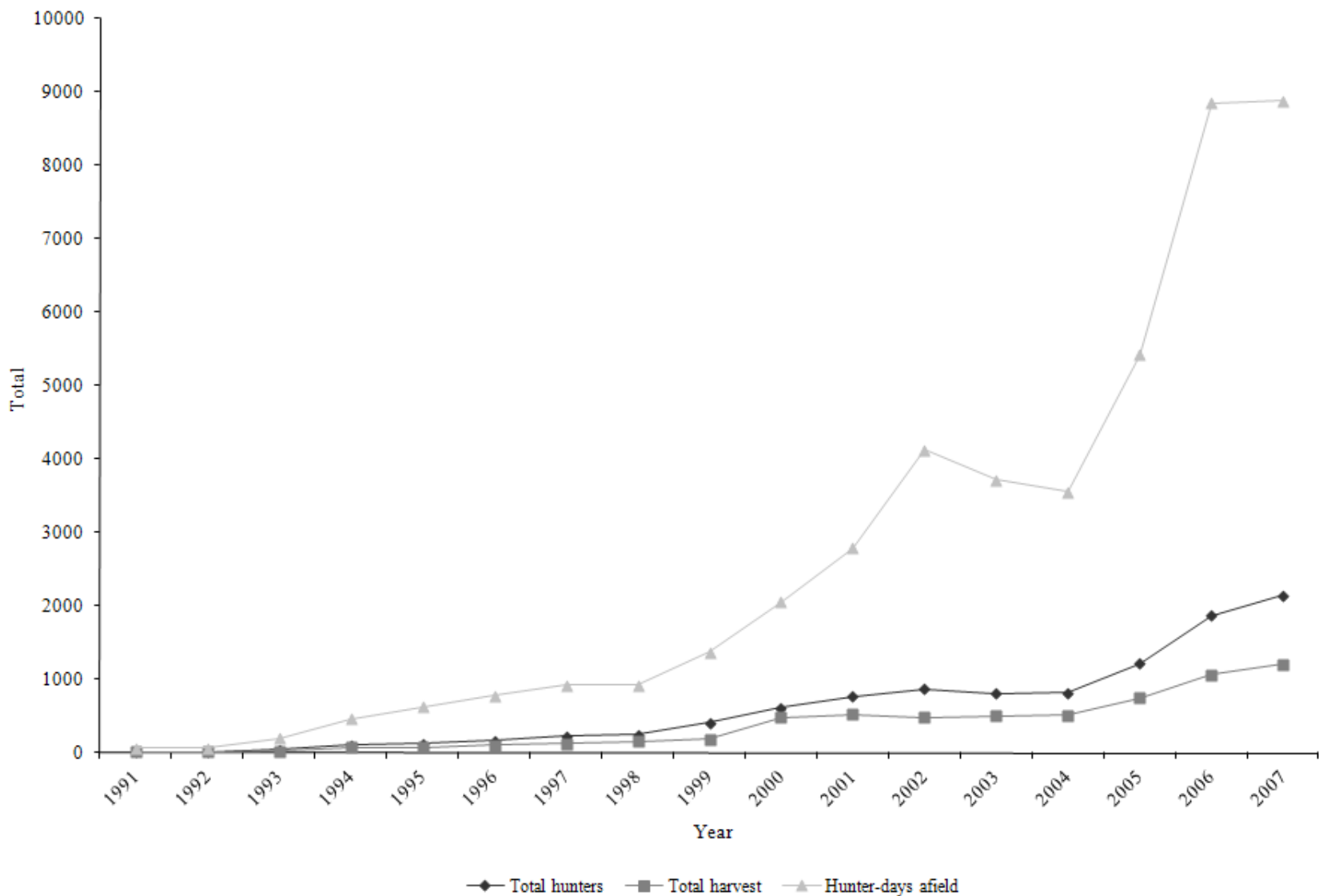
Statewide Merriam's wild turkey spring season harvest statistics, Utah 1968–2007 (continued).

| 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.

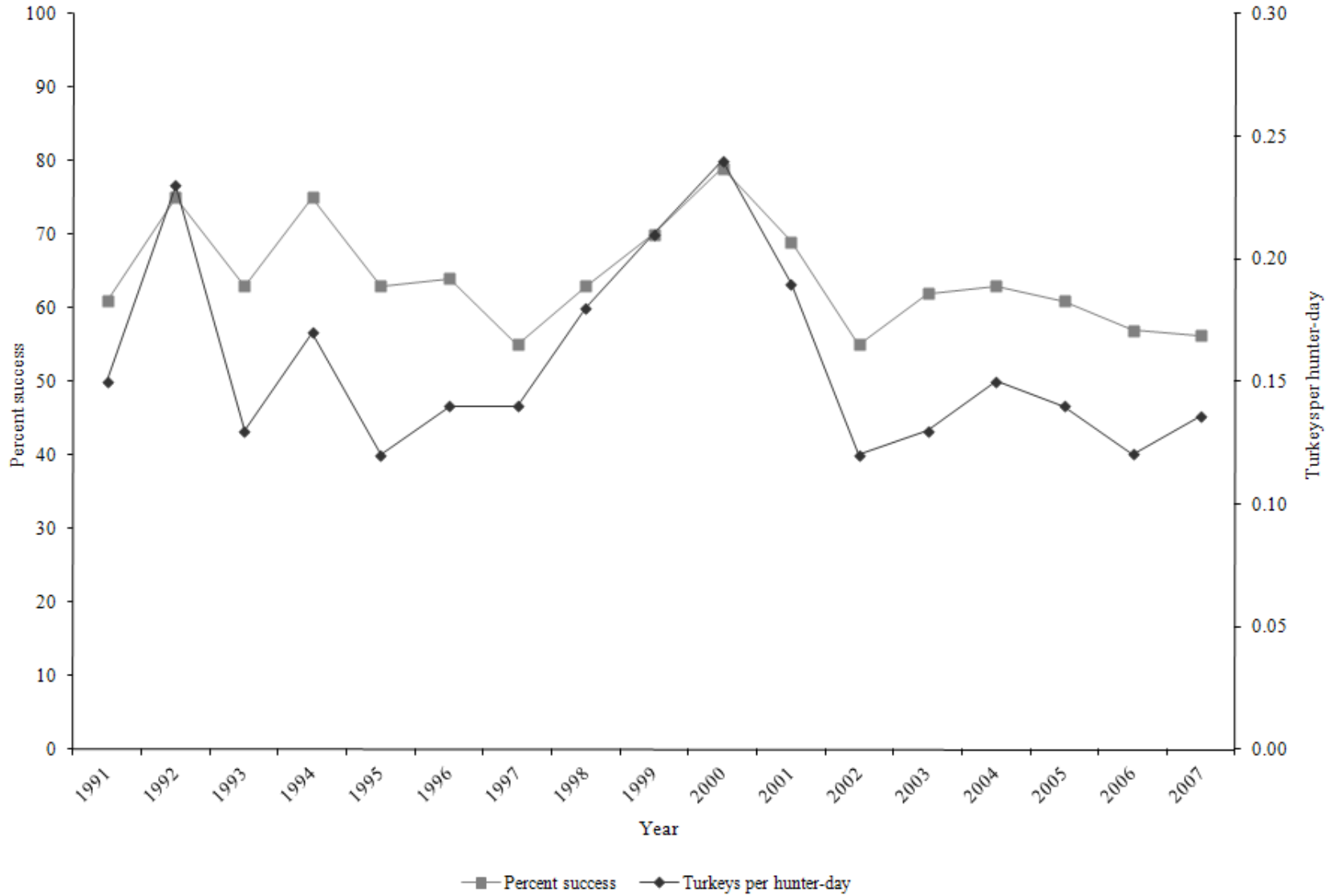
Statewide trends of spring Rio Grande wild turkey harvest statistics, Utah 1991–2007.



\*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.

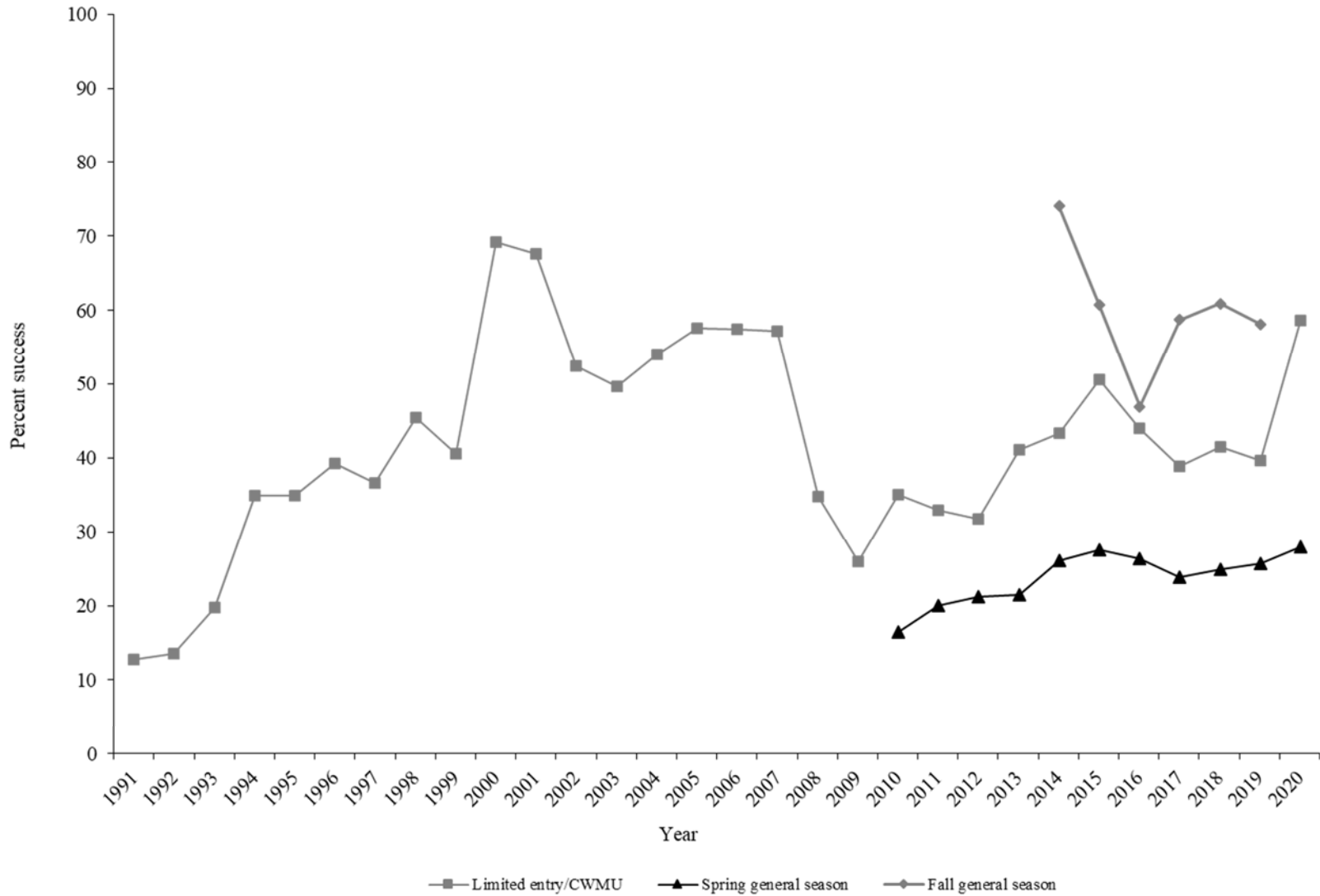
| Year                        | Permits sold | Total hunters | Total harvest | Hunter-days afield | Percent success | Turkeys / hunter-day | % of hunters observing turkeys |
|-----------------------------|--------------|---------------|---------------|--------------------|-----------------|----------------------|--------------------------------|
| 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 1991–2020.



\*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 2019.

| Region and county    | n** | Hunters<br>afield | Male<br>harvest | Female<br>harvest | Unknown<br>sex harvest | Total<br>harvest | Mean days<br>afield | Percent<br>success |
|----------------------|-----|-------------------|-----------------|-------------------|------------------------|------------------|---------------------|--------------------|
| Northern Region      |     |                   |                 |                   |                        |                  |                     |                    |
| Box Elder            | 161 | 634               | 169             | 106               | 0                      | 276              | 4.8                 | 43.5               |
| Cache                | 329 | 1295              | 417             | 311               | 16                     | 744              | 5.6                 | 57.4               |
| Davis                | 100 | 394               | 51              | 63                | 4                      | 118              | 5.9                 | 30.0               |
| Duchesne             | 1   | 4                 | 4               | 0                 | 0                      | 4                | 1.0                 | 100.0              |
| Morgan               | 158 | 622               | 205             | 161               | 8                      | 374              | 5.1                 | 60.1               |
| Rich                 | 3   | 12                | 0               | 8                 | 0                      | 8                | 2.7                 | 66.7               |
| Summit               | 36  | 142               | 51              | 47                | 0                      | 98               | 4.2                 | 69.4               |
| Utah                 | 0   | 0                 | —               | —                 | —                      | —                | 0.0                 | 0.0                |
| Wasatch              | 12  | 47                | 24              | 4                 | 0                      | 28               | 8.6                 | 58.3               |
| Weber                | 141 | 555               | 173             | 94                | 12                     | 280              | 3.7                 | 50.4               |
| Unknown              | 5   | 20                | 8               | 8                 | 4                      | 20               | 3.4                 | 100.0              |
| Regional total*      | 994 | 3346              | 1102            | 802               | 44                     | 1950             | 5.7                 | 58.2               |
| Central Region       |     |                   |                 |                   |                        |                  |                     |                    |
| Juab                 | 64  | 244               | 84              | 34                | 4                      | 122              | 3.8                 | 50.0               |
| Salt Lake            | 10  | 38                | 11              | 4                 | 0                      | 15               | 3.4                 | 40.0               |
| Sanpete              | 70  | 267               | 61              | 84                | 4                      | 149              | 5.8                 | 55.7               |
| Summit               | 3   | 11                | 8               | 4                 | 0                      | 11               | 1.3                 | 100.0              |
| Tooele               | 33  | 126               | 15              | 46                | 0                      | 61               | 3.8                 | 48.5               |
| Utah                 | 153 | 584               | 199             | 103               | 0                      | 302              | 3.9                 | 51.6               |
| Wasatch              | 37  | 141               | 38              | 42                | 0                      | 80               | 4.0                 | 56.8               |
| Weber                | 0   | 0                 | —               | —                 | —                      | —                | 0.0                 | 0.0                |
| Unknown              | 13  | 50                | 4               | 19                | 0                      | 23               | 3.5                 | 46.2               |
| Regional total*      | 457 | 1359              | 420             | 336               | 8                      | 763              | 4.5                 | 56.2               |
| Southern Region      |     |                   |                 |                   |                        |                  |                     |                    |
| Beaver               | 3   | 11                | 0               | 0                 | 0                      | 0                | 3.7                 | 0.0                |
| Garfield             | 22  | 80                | 33              | 25                | 0                      | 58               | 2.4                 | 72.7               |
| Iron                 | 25  | 91                | 11              | 33                | 0                      | 44               | 4.2                 | 48.0               |
| Juab                 | 0   | 0                 | —               | —                 | —                      | —                | 0.0                 | 0.0                |
| Kane                 | 23  | 84                | 25              | 29                | 0                      | 55               | 3.3                 | 65.2               |
| Millard              | 8   | 29                | 7               | 0                 | 0                      | 7                | 2.5                 | 25.0               |
| Piute                | 2   | 7                 | 0               | 4                 | 0                      | 4                | 1.0                 | 50.0               |
| Sanpete              | 0   | 0                 | —               | —                 | —                      | —                | 0.0                 | 0.0                |
| Sevier               | 5   | 18                | 4               | 0                 | 0                      | 4                | 2.8                 | 20.0               |
| Washington           | 31  | 113               | 33              | 18                | 0                      | 51               | 2.7                 | 45.2               |
| Wayne                | 1   | 4                 | 0               | 0                 | 0                      | 0                | 2.0                 | 0.0                |
| Unknown              | 1   | 4                 | 4               | 0                 | 0                      | 4                | 2.0                 | 100.0              |
| Regional total*      | 131 | 382               | 117             | 109               | 0                      | 227              | 3.5                 | 59.0               |
| Southeastern Region* |     |                   |                 |                   |                        |                  |                     |                    |
| Regional total*      | 20  | 26                | 420             | 336               | 8                      | 764              | 2.9                 | 93.8               |

\*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 3913 for the northern region, 1745 for the central region, 32 for the southeastern region, and 477 for the southern region.

Statewide fall wild turkey harvest statistics, Utah 2014–2019.

| 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            |
| 2019                        | 6167         | 1327          | 772           | 58.2            |
| Average (1991–2018)         | 1298         | 1219          | 698           | 60.3            |
| % change from previous year | 81           | -52           | -54           | -4              |
| % change from average       | 375          | 9             | 11            | -4              |

\*Includes youth-only hunt.

Spring limited entry/CWMU wild turkey spring harvest statistics by hunt, Utah 2020.

| 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      | 120           | 89  | 116            | 71            | 2.6                          | 1.2                           | 61.6            |
| TK1004      | Northeastern region | 131           | 93  | 111            | 72            | 2.1                          | 1.0                           | 64.6            |
| TK1005      | Northern region     | 215           | 124 | 198            | 109           | 2.3                          | 1.2                           | 55.3            |
| TK1006      | Southeastern region | 114           | 73  | 94             | 59            | 1.6                          | 1.1                           | 63.3            |
| TK1007      | Southern region     | 767           | 237 | 702            | 398           | 1.8                          | 0.4                           | 56.7            |
| TK1018      | Pahvant Ensign CWMU | 21            | 18  | 19             | 7             | —                            | 3.1                           | 37.5            |

Statewide limited-entry/CWMU wild turkey harvest statistics, Utah 1991–2020.

| 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            |
| 2020                        | 1368         | 1235          | 724           | —                    | 58.6            |
| Average (1991–2019)         | 2596         | 2240          | 894           | 0.1                  | 41.5            |
| % change from previous year | -50          | -43           | -16           | —                    | 48              |
| % change from average       | -47          | -45           | -19           | —                    | 41              |

\*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 2020.

| Region and county   | n   | Hunters<br>afield | Total<br>harvest | Mean public<br>days-afield | Mean private<br>days-afield | Percent<br>success |
|---------------------|-----|-------------------|------------------|----------------------------|-----------------------------|--------------------|
| Northern Region     |     |                   |                  |                            |                             |                    |
| Box Elder           | 12  | 63                | 16               | 0.8                        | 1.2                         | 25.0               |
| Cache               | 30  | 156               | 36               | 1.2                        | 0.8                         | 23.3               |
| Davis               | 7   | 36                | 0                | 1.4                        | 0.1                         | 0.0                |
| Morgan              | 5   | 26                | 0                | 0.6                        | 1.8                         | 0.0                |
| Rich                | 2   | 10                | 10               | 1.0                        | 0.5                         | 100.0              |
| Summit              | 3   | 16                | 10               | 1.7                        | 0.3                         | 66.7               |
| Weber               | 18  | 94                | 26               | 1.4                        | 0.8                         | 27.8               |
| Regional total      | 77  | 401               | 98               | 1.2                        | 0.8                         | 24.4               |
| Central Region      |     |                   |                  |                            |                             |                    |
| Juab                | 14  | 73                | 5                | 2.0                        | 0.6                         | 7.1                |
| Salt Lake           | 9   | 47                | 5                | 2.3                        | 0.0                         | 11.1               |
| Sanpete             | 29  | 151               | 42               | 1.6                        | 0.6                         | 27.6               |
| Tooele              | 21  | 109               | 47               | 2.0                        | 0.3                         | 42.9               |
| Utah                | 62  | 323               | 73               | 1.8                        | 0.3                         | 22.6               |
| Wasatch             | 12  | 63                | 26               | 1.7                        | 0.8                         | 41.7               |
| Regional total      | 147 | 766               | 198              | 1.8                        | 0.4                         | 25.8               |
| Southern Region     |     |                   |                  |                            |                             |                    |
| Beaver              | 17  | 89                | 26               | 2.5                        | 0.2                         | 29.4               |
| Garfield            | 8   | 42                | 16               | 1.6                        | 0.4                         | 37.5               |
| Iron                | 14  | 73                | 26               | 1.4                        | 0.4                         | 35.7               |
| Kane                | 13  | 68                | 36               | 1.2                        | 0.8                         | 53.8               |
| Millard             | 15  | 78                | 21               | 1.7                        | 0.5                         | 26.7               |
| Piute               | 3   | 16                | 0                | 1.0                        | 0.0                         | 0.0                |
| Sevier              | 12  | 63                | 16               | 2.2                        | 0.1                         | 25.0               |
| Washington          | 13  | 68                | 16               | 1.8                        | 0.8                         | 23.1               |
| Wayne               | 5   | 26                | 5                | 1.4                        | 1.0                         | 20.0               |
| Regional total      | 100 | 523               | 162              | 1.8                        | 0.4                         | 31.0               |
| Northeastern Region |     |                   |                  |                            |                             |                    |
| Daggett             | 5   | 26                | 5                | 2.4                        | 0.0                         | 20.0               |
| Duchesne            | 11  | 57                | 31               | 1.1                        | 0.8                         | 54.5               |
| Uintah              | 28  | 146               | 16               | 1.4                        | 1.3                         | 10.7               |
| Regional total      | 44  | 229               | 52               | 1.4                        | 1.0                         | 22.7               |
| Southeastern Region |     |                   |                  |                            |                             |                    |
| Carbon              | 4   | 21                | 0                | 2.0                        | 0.0                         | 0.0                |
| Emery               | 13  | 68                | 21               | 1.8                        | 1.1                         | 30.8               |
| Grand               | 6   | 31                | 5                | 1.5                        | 0.2                         | 16.7               |
| San Juan            | 11  | 57                | 31               | 1.8                        | 0.7                         | 54.5               |
| Regional total      | 34  | 177               | 57               | 1.8                        | 0.7                         | 32.2               |
| Unknown             | 9   | 47                | 0                | 2.6                        | 0.6                         | 0.0                |
| Statewide total**   | 501 | 1986              | 568              | 2.2                        | 1.9                         | 28.6               |

\*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 2020.

| Region and county   | n    | Hunters<br>afield | Total<br>harvest | Mean public<br>days-afield | Mean private<br>days-afield | Percent<br>success |
|---------------------|------|-------------------|------------------|----------------------------|-----------------------------|--------------------|
| Northern Region     |      |                   |                  |                            |                             |                    |
| Box Elder           | 84   | 342               | 49               | 3.3                        | 2.4                         | 14.3               |
| Cache               | 243  | 990               | 257              | 4.2                        | 3.3                         | 25.9               |
| Davis               | 82   | 334               | 16               | 3.5                        | 3.7                         | 4.9                |
| Morgan              | 88   | 358               | 90               | 3.4                        | 2.7                         | 25.0               |
| Rich                | 9    | 37                | 8                | 3.7                        | 1.5                         | 22.2               |
| Summit              | 69   | 281               | 33               | 3.3                        | 3.2                         | 11.6               |
| Weber               | 153  | 623               | 122              | 3.9                        | 4.6                         | 19.6               |
| Regional total      | 728  | 2965              | 575              | 3.8                        | 3.4                         | 19.4               |
| Central Region      |      |                   |                  |                            |                             |                    |
| Juab                | 92   | 375               | 53               | 4.1                        | 3.6                         | 14.1               |
| Salt Lake           | 87   | 354               | 69               | 3.5                        | 3.4                         | 19.5               |
| Sanpete             | 158  | 644               | 126              | 4.2                        | 3.3                         | 19.6               |
| Tooele              | 154  | 627               | 94               | 4.4                        | 3.4                         | 14.9               |
| Utah                | 430  | 1752              | 318              | 4.4                        | 3.5                         | 18.1               |
| Wasatch             | 103  | 420               | 106              | 3.5                        | 4.0                         | 25.2               |
| Regional total      | 1024 | 4172              | 766              | 4.2                        | 3.5                         | 18.4               |
| Southern Region     |      |                   |                  |                            |                             |                    |
| Beaver              | 76   | 310               | 53               | 4.6                        | 3.1                         | 17.1               |
| Garfield            | 86   | 350               | 69               | 4.1                        | 2.6                         | 19.8               |
| Iron                | 131  | 534               | 73               | 4.3                        | 3.9                         | 13.7               |
| Kane                | 60   | 244               | 57               | 2.8                        | 2.2                         | 23.3               |
| Millard             | 125  | 509               | 118              | 3.6                        | 2.1                         | 23.2               |
| Piute               | 24   | 98                | 4                | 3.4                        | 1.8                         | 4.2                |
| Sevier              | 108  | 440               | 65               | 4.6                        | 6.8                         | 14.8               |
| Washington          | 179  | 729               | 163              | 3.7                        | 2.8                         | 22.3               |
| Wayne               | 36   | 147               | 24               | 4.0                        | 3.3                         | 16.7               |
| Regional total      | 825  | 3361              | 626              | 4.0                        | 3.3                         | 18.6               |
| Northeastern Region |      |                   |                  |                            |                             |                    |
| Daggett             | 33   | 134               | 8                | 2.9                        | 2.1                         | 6.1                |
| Duchesne            | 88   | 358               | 114              | 4.4                        | 2.7                         | 31.8               |
| Uintah              | 152  | 619               | 139              | 5.0                        | 4.7                         | 22.4               |
| Regional total      | 273  | 1111              | 261              | 4.5                        | 3.8                         | 23.5               |
| Southeastern Region |      |                   |                  |                            |                             |                    |
| Carbon              | 23   | 94                | 8                | 4.3                        | 4.1                         | 8.7                |
| Emery               | 58   | 236               | 57               | 4.5                        | 4.3                         | 24.1               |
| Grand               | 39   | 159               | 12               | 3.5                        | 1.9                         | 7.7                |
| San Juan            | 76   | 310               | 65               | 4.6                        | 2.4                         | 21.1               |
| Regional total      | 196  | 799               | 142              | 4.3                        | 3.1                         | 17.8               |
| Unknown             | 38   | 155               | 16               | 3.8                        | 2.3                         | 10.5               |
| Statewide total*    | 2915 | 10290             | 2387             | 5.0                        | 3.7                         | 23.2               |

\*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 2010–2020.

| 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            |
| 2020                        | 12443        | 10589         | 2955          | 27.9            |
| Average (1991–2019)         | 8159         | 6968          | 1637          | 23.3            |
| % change from previous year | 25           | 23            | 34            | 9               |
| % change from average       | 53           | 52            | 81            | 20              |

\*Includes youth-only hunt.



## **APPENDIX A**

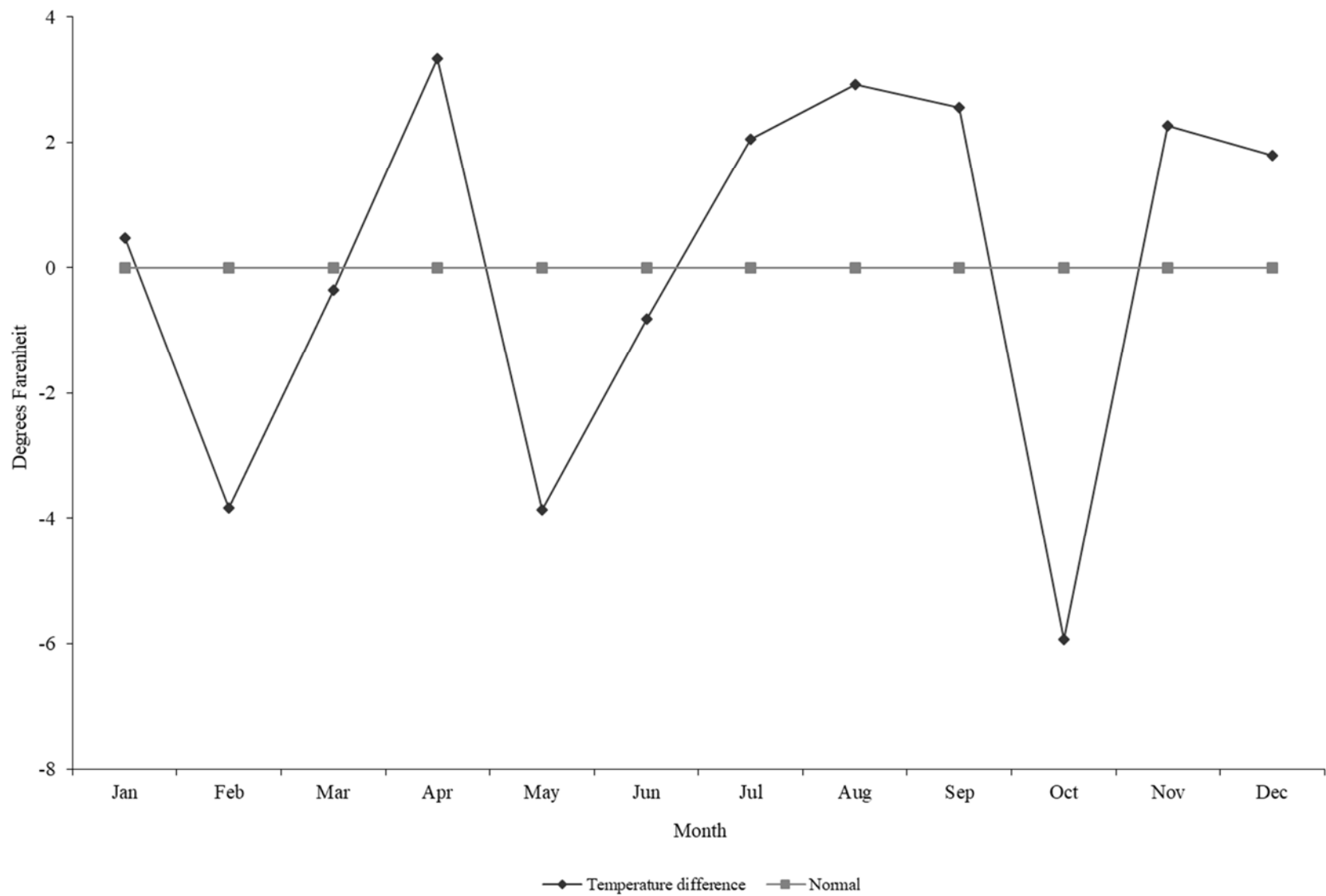
### **WEATHER CONDITIONS**

Weather data used in this report are from the NOAA periodical entitled “Climatological Data Annual Summary Utah 2019.”

Comparison of monthly average temperatures (°F) to normal temperature, by weather division, Utah 2019.

| 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   |
| 2019                           | 27.6 | 30.6 | 40.4 | 50.7 | 52.5 | 64.6 | 75.1 | 74.0 | 63.4 | 41.8 | 37.2 | 30.1 | 49.0   |
| Departure                      | 0.9  | -2.0 | -0.3 | 3.1  | -3.9 | -1.6 | 1.3  | 1.9  | 1.4  | -7.8 | 0.6  | 2.5  | -0.3   |
| <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   |
| 2019                           | 40.7 | 39.7 | 51.6 | 61.5 | 61.3 | 77.0 | 85.0 | 84.4 | 76.3 | 57.7 | 51.2 | 40.4 | 60.6   |
| Departure                      | 1.3  | -4.8 | 1.5  | 4.6  | -4.6 | 1.1  | 3.4  | 4.6  | 4.0  | -3.0 | 4.0  | 0.7  | 1.1    |
| <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   |
| 2019                           | 27.2 | 30.8 | 40.4 | 49.9 | 53.8 | 65.0 | 75.7 | 74.6 | 63.5 | 43.2 | 39.1 | 29.9 | 49.4   |
| Departure                      | 0.7  | -0.8 | 0.1  | 2.3  | -2.8 | -1.3 | 1.8  | 2.3  | 1.1  | -7.2 | 1.9  | 1.9  | 0.0    |
| <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   |
| 2019                           | 27.5 | 26.9 | 39.3 | 48.3 | 48.8 | 61.7 | 71.0 | 71.1 | 62.0 | 42.7 | 38.4 | 29.3 | 47.3   |
| Departure                      | 0.7  | -4.7 | 1.1  | 3.7  | -4.7 | -1.4 | 1.2  | 3.2  | 2.3  | -5.6 | 2.4  | 1.3  | 0.0    |
| <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   |
| 2019                           | 21.8 | 22.9 | 32.0 | 44.0 | 47.2 | 58.1 | 67.9 | 66.4 | 57.2 | 38.1 | 34.4 | 23.5 | 42.8   |
| Departure                      | 0.5  | -2.0 | -0.8 | 3.6  | -2.2 | -0.2 | 2.8  | 2.7  | 2.2  | -6.1 | 3.1  | 1.0  | 0.4    |
| <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   |
| 2019                           | 16.8 | 16.8 | 33.6 | 49.6 | 52.2 | 63.9 | 73.5 | 72.2 | 62.9 | 40.8 | 34.8 | 25.0 | 45.2   |
| Departure                      | -1.2 | -7.6 | -3.9 | 3.1  | -3.7 | -1.3 | 1.9  | 2.6  | 2.7  | -7.0 | 2.0  | 4.0  | -0.7   |
| <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   |
| 2019                           | 28.4 | 29.8 | 42.9 | 53.7 | 55.0 | 69.5 | 78.5 | 77.6 | 69.6 | 48.2 | 41.0 | 30.9 | 52.1   |
| Departure                      | 0.4  | -4.9 | -0.2 | 3.0  | -5.1 | -1.0 | 2.0  | 3.2  | 4.2  | -4.8 | 1.9  | 1.1  | 0.0    |
| <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   |
| 2019                           | 27.1 | 28.2 | 40.0 | 51.1 | 53.0 | 65.7 | 75.2 | 74.3 | 65.0 | 44.6 | 39.4 | 29.9 | 49.5   |
| Departure                      | 0.5  | -3.8 | -0.4 | 3.3  | -3.9 | -0.8 | 2.1  | 2.9  | 2.6  | -5.9 | 2.3  | 1.8  | 0.1    |

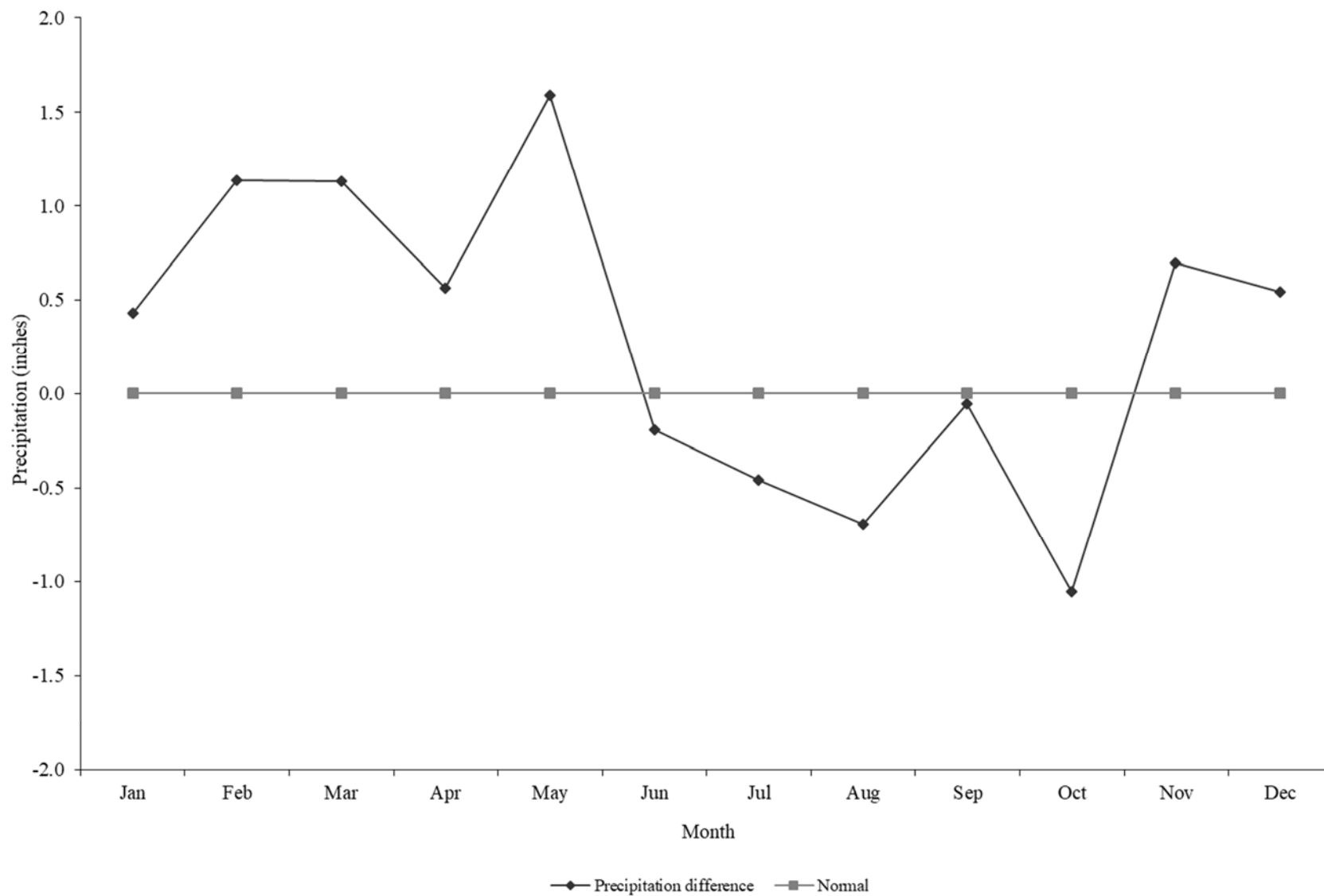
Temperature (°F) departure from normal, Utah 2019.



Comparison of monthly average precipitation (inches) to normal precipitation, by weather division, Utah 2019.

| 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    |
| 2019                           | 0.6  | 1.3 | 1.9 | 2.2 | 2.4 | 0.5  | 0.6  | 0.2  | 1.0  | 0.1  | 1.1  | 0.6 | 12.4   |
| Departure                      | -0.1 | 0.7 | 1.0 | 1.3 | 1.2 | -0.1 | -0.1 | -0.5 | 0.2  | -0.9 | 0.5  | 0.1 | 3.2    |
| <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   |
| 2019                           | 2.5  | 3.7 | 3.5 | 1.1 | 2.8 | 0.2  | 0.0  | 0.1  | 0.1  | 0.0  | 3.4  | 2.0 | 19.4   |
| Departure                      | 0.9  | 2.1 | 1.6 | 0.2 | 2.1 | -0.1 | -0.9 | -1.0 | -0.8 | -1.0 | 2.4  | 1.2 | 6.6    |
| <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   |
| 2019                           | 2.3  | 2.5 | 3.4 | 3.2 | 3.8 | 0.6  | 0.4  | 0.4  | 2.7  | 0.5  | 1.5  | 1.6 | 22.8   |
| Departure                      | 0.7  | 0.9 | 1.5 | 1.3 | 1.7 | -0.5 | -0.5 | -0.6 | 1.3  | -1.3 | -0.1 | 0.2 | 4.6    |
| <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   |
| 2019                           | 1.2  | 2.2 | 2.4 | 1.2 | 3.1 | 0.5  | 0.9  | 0.4  | 0.4  | 0.1  | 2.4  | 1.3 | 16.1   |
| Departure                      | 0.0  | 1.0 | 1.0 | 0.1 | 2.0 | -0.1 | -0.2 | -1.0 | -0.7 | -1.2 | 1.4  | 0.4 | 2.8    |
| <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   |
| 2019                           | 2.8  | 2.9 | 3.2 | 2.8 | 3.7 | 0.9  | 0.5  | 0.7  | 2.4  | 1.0  | 1.8  | 2.4 | 25.0   |
| Departure                      | 0.7  | 1.0 | 1.2 | 0.9 | 1.7 | -0.3 | -0.6 | -0.5 | 0.9  | -0.8 | -0.1 | 0.7 | 4.8    |
| <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    |
| 2019                           | 1.1  | 1.5 | 1.0 | 1.0 | 2.5 | 0.4  | 0.3  | 0.3  | 0.6  | 0.1  | 0.7  | 1.0 | 10.4   |
| Departure                      | 0.6  | 1.0 | 0.4 | 0.2 | 1.6 | -0.2 | -0.5 | -0.5 | -0.4 | -1.0 | 0.2  | 0.6 | 1.9    |
| <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    |
| 2019                           | 1.0  | 1.9 | 2.2 | 0.7 | 1.7 | 0.3  | 0.4  | 0.2  | 0.1  | 0.1  | 1.5  | 1.3 | 11.4   |
| Departure                      | 0.2  | 1.3 | 1.3 | 0.0 | 0.9 | -0.1 | -0.5 | -0.8 | -0.8 | -1.2 | 0.7  | 0.6 | 1.5    |
| <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   |
| 2019                           | 1.6  | 2.3 | 2.5 | 1.7 | 2.8 | 0.5  | 0.4  | 0.3  | 1.1  | 0.3  | 1.8  | 1.4 | 16.8   |
| Departure                      | 0.4  | 1.1 | 1.1 | 0.6 | 1.6 | -0.2 | -0.5 | -0.7 | -0.1 | -1.1 | 0.7  | 0.5 | 3.6    |

Precipitation (inches) departure from normal, Utah 2019.



## **APPENDIX B**

### **HUNTER 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 2019–2020.

| 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                                  |
| 2019–20  | Web/Phone   | 15024       | 270257         | 86.9                                  |

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



## **APPENDIX C**

### **LICENSE SALES**

Cost of Utah hunting licenses/permits and total licenses/permits sold, Utah 2019–2020.

| License/permit type   | Fee (dollars)                   | Licenses/permits sold |
|---|---------------------------------|-----------------------|
| Resident 365-day hunting license (age 13 and under)           | \$11                            | 7171                  |
| Resident 365-day hunting license (ages 14–17)                 | \$16                            | 936                   |
| Resident 365-day hunting license (age 65 and older)           | \$25                            | 853                   |
| Resident 365-day hunting license (ages 18–64)                 | \$34                            | 5572                  |
| 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                            | 15210                 |
| Resident 365-day combination license (age 65 and older)       | \$29                            | 18251                 |
| Resident 365-day combination license (ages 18–64)             | \$38                            | 161348                |
| 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                            | 482                   |
| Nonresident 365-day hunting license (age 17 and under)        | \$25                            | 1204                  |
| Nonresident 365-day hunting license (age 18 and older)        | \$65                            | 28525                 |
| 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                            | 909                   |
| Nonresident 365-day combination license (age 18 and older)    | \$85                            | 14130                 |
| Nonresident multi-year combination license (age 18 and older) | \$84 per year, up to five years | Included above        |
| Resident lifetime hunting/fishing license*                    | —                               | 4549                  |
| Resident Hunter Education completion license                  | —                               | 10802                 |
| Nonresident Hunter Education completion license               | —                               | 128                   |
| Band-tailed pigeon permit                                     | \$0                             | 165                   |
| Greater sage-grouse permit                                    | \$0                             | 444                   |
| Sandhill crane permit   | \$15                            | 239                   |
| Sharp-tailed grouse permit                                    | \$0                             | 260                   |
| White-tailed ptarmigan permit                                 | \$0                             | 406                   |
| Resident wild turkey limited-entry permit                     | \$35                            | 1296                  |
| Resident wild turkey general-season permit                    | \$35                            | 9498                  |
| Resident wild turkey general-season permit (youth)            | \$25                            | 2573                  |
| Resident wild turkey CWMU permit                              | \$35                            | 19                    |
| Nonresident wild turkey limited-entry permit                  | \$100                           | 46                    |
| Nonresident wild turkey general-season permit                 | \$100                           | 372                   |
| Nonresident wild turkey CWMU permit                           | \$100                           | 2                     |

\*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 2019–20 (2019–20 Utah Upland Game & Turkey Guidebook).

#### American crow

- Season dates: September 2–30, 2019 and December 8, 2019–February 28, 2020
- Areas open: Statewide.
- Bag limit: 10
- Possession limit: 30

#### Band-tailed pigeon

- Season dates: September 2–14, 2019
- Falconry season dates: September 1–December 16, 2019
- Areas open: Statewide.
- Bag limit: 2
- Possession limit: 6
- Permit requirement: A free permit is required to participate in this hunt.

#### California and Gambel's quail

- Season dates: November 2–December 31, 2019
- Youth hunt: October 12–14, 2019
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15
- Notes: Limits singly or in combination.

#### Chukar partridge

- Season dates: September 28, 2019–February 15, 2020
- Youth hunt: September 21–23, 2019
- 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, using any weapon you lawfully possess. Collared-doves should remain fully feathered so they can be distinguished from mourning and white-winged doves. Any 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 2019–20 (continued).

Cottontail rabbit (desert and mountain)

- Season dates: September 2, 2019–February 28, 2020
- Areas open: Statewide.
- Bag limit: 10
- Possession limit: 30

Dusky and ruffed grouse

- Season dates: September 2–December 31, 2019
- Areas open: Statewide.
- Bag limit: 4
- Possession limit: 12
- Notes: Limits singly or in combination.

Gray (Hungarian) partridge

- Season dates: September 28, 2019–February 15, 2020
- Youth hunt: September 21–23, 2019
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15

Greater sage-grouse

- Season dates: September 28–October 20, 2019
- Areas open: Diamond, Blue Mountain (SG1000); Parker Mountain (SG1001); Rich County (SG1002) and West Box Elder County (SG1003)
- Permit requirement: A greater sage-grouse permit is required to participate in this hunt. Only 2 birds of either sex may be taken during the entire season.
- Notes: 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.

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 2019–20 (continued).

#### Mourning dove and white-winged dove

- Season dates: September 2–October 30, 2019
- Falconry season dates: September 2–December 16, 2019
- 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 2–December 1, 2019
- Youth hunt: October 12–14, 2019
- 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.

#### Sandhill crane (multiple counties)

- Season dates: September 7–15, 2019
- Areas open: East Box Elder County (SC1000), Cache County (SC1001) and Rich County (SC1002)
- Permit requirement: A sandhill crane permit is required to participate in this hunt. During the season, you may take only 1 bird of either sex.
- Notes: 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. Falconry season dates, possession limits and permit requirements are the same as those for other hunters.

#### Sandhill crane (Uintah County)

- Season dates: September 28–October 17, 2019 (early), October 18–November 6, 2019 (middle), and November 7–26, 2019 (late)
- Areas open: Uintah County. There are three hunts: early (SC1003), middle (SC1004), and late (SC1005).
- Permit requirement: A sandhill crane permit is required to participate in this hunt. During the season, you may take only 1 bird of either sex.
- Notes: Falconry season dates, possession limits and permit requirements are the same as those for other hunters.

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2019–20 (continued).

#### Scaled quail

- Season dates and bag limit: Closed statewide

#### Sharp-tailed grouse

- Season dates: September 28–October 20, 2019
- Areas open: Northeast Box Elder County (ST1000) and Cache County (ST1001)
- Permit requirement: A sharp-tailed grouse permit is required to participate in this hunt. Only 2 birds of either sex may be taken during the entire season.
- Notes: 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 2, 2019–March 15, 2020
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15

#### White-tailed ptarmigan

- Season dates: August 24–October 31, 2019
- Areas open: Statewide.
- Bag limit: 4
- Possession limit: 12
- Permit requirement: A free permit is required to participate in this hunt.

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

- Season dates: October 1, 2019–February 28, 2020 (Northern and Central), November 1, 2019–February 16, 2020 (Southern), and October 1–December 31, 2019 (Southeastern)
- Areas open: Select areas within the Central, Northern, Southern, and Southeastern regions. These hunt areas are comprised of all or largely private property.
- Permit requirement: A wild turkey permit is required to participate in this hunt. During the season, you may take up to 3 turkeys of either sex, and you must have a separate permit for each bird you harvest.
- Notes: Permits for the fall 2019 general-season hunts will be available starting September 5, 2019 at [wildlife.utah.gov](http://wildlife.utah.gov) and from license agents and Division offices.

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2019–20 (continued).

#### Wild turkey (Limited-entry hunts)

- Season dates: April 11–April 23, 2020
- Areas open: Central (TK1003), Northeastern (TK1004), Northern (TK1005), Southeastern (TK1006), and Southern (TK1007) regions.
- Permit requirement: The limited-entry hunt requires a wild turkey permit distributed through Utah’s turkey drawing. You may take only 1 bearded turkey within the season and boundary listed on your permit.
- Notes: 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: May 4–31, 2020
- Youth hunt: May 1–3, 2020
- Areas open: Statewide.
- Permit requirement: The spring general-season hunt requires a wild turkey permit that you can purchase over the counter. You may take only 1 bearded turkey within the season on your permit.

#### 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 11–May 31, 2020.
- Areas open: Pahvant Ensign (TK1018).
- Permit requirement: The CWMU hunt requires a wild turkey permit distributed through Utah’s turkey drawing. During the hunting period established by the CWMU operator, you may take only 1 bearded turkey.