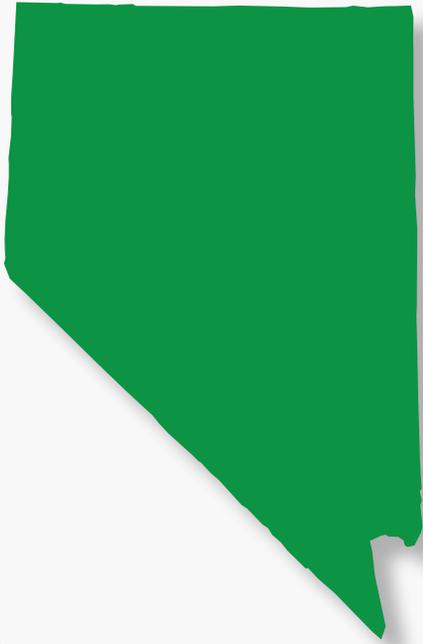


2011 National Survey  
of Fishing, Hunting,  
and Wildlife-Associated Recreation



# Nevada

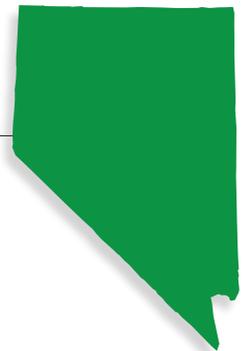




# 2011 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation



## Nevada



**U.S. Department of the Interior**  
**Sally Jewell,**  
Secretary

**U.S. Fish and Wildlife Service**  
**Dan Ashe,**  
Director



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Secretary



**U.S. Fish and Wildlife Service**  
**Dan Ashe,**  
Director



**Wildlife and Sport Fish Restoration**  
**Hannibal Bolton,**  
Assistant Director

The U.S. Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated Island Communities. The mission of the Department's U.S. Fish and Wildlife Service is working with others to conserve, protect, and enhance fish, wildlife, and their habitats for the continuing benefit of the American people. The Service is responsible for national programs of vital importance to our natural resources, including administration of the Wildlife and Sport Fish Restoration Programs. These two programs provide financial assistance to the States for projects to enhance and protect fish and wildlife resources and to assure their availability to the public for recreational purposes. Multistate grants from these programs fund the National Survey of Fishing, Hunting, and Wildlife-Associated Recreation.

### **Suggested Citation**

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# Foreword

When I was growing up, it was taken as a matter of faith that kids belonged outside. I grew up with 4 brothers, and during those long, hot Atlanta summers, it was common for our mom to holler, “You boys get outside, and don’t come back ‘til it’s dark.” It never occurred to me or my brothers to do anything else in our spare time but explore the world around us. The truth is, we had little else to do. But those experiences – waking up on frosty mornings and starting the campfire, scanning trees for a shot at a scampering gray squirrel in the dawn light, scouring creek beds for crawdads and other fishing bait, or simply of the fun we had tramping through the forest – shaped who I am, and drew me to a career in conservation.

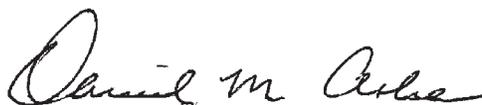
That’s why I’m excited by this 2011 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation. This report, the 12th in a series that began in 1955, documents a significant resurgence in the number of people embracing America’s Great Outdoors. Hunting participation has increased by 9 percent, while angling participation grew by 11 percent. Nearly 38 percent of Americans participated in wildlife-related recreation, an increase of 2.6 million participants from the 2006 Survey.

In addition, wildlife-related recreation is a major driver of the nation’s economy. The 2011 Survey estimates that Americans spent \$145 billion on related gear, trips, licenses, land acquisition or leases, and other purchases, representing about one percent of the nation’s gross domestic product. This spending creates thousands of jobs, supports countless local communities and provides vital funding for conservation.

This year marks the 75th anniversary of the Wildlife and Sport Fish Restoration Program, a cornerstone of wildlife conservation in the United States. Through excise taxes on firearms, ammunition, archery and angling equipment, the U.S. Fish and Wildlife Service has distributed over \$14 billion for State and territorial wildlife conservation programs.

This report would not have been possible without the combined efforts of state wildlife agencies – which provided financial support through the Multi-State Conservation Grant Programs – the Association of Fish and Wildlife Agencies and a number of major national conservation organizations. We also owe our gratitude to the thousands of survey respondents from households across America. Because of you, this Survey is the nation’s definitive wildlife-related recreation database and information source concerning participation and purchases associated with hunting, fishing and other forms of wildlife-associated recreation nationwide.

The Fish and Wildlife Service is dedicated to connecting people and families with nature. We are proud to celebrate the good news in this report, and we look forward to continuing progress as we work with the States, and all our partners and the public to help keep recreational fishing, hunting, and wildlife watching growing and going strong.



Dan Ashe  
Director, U.S. Fish and Wildlife Service

# Survey Background and Method

The National Survey of Fishing, Hunting, and Wildlife-Associated Recreation (Survey) has been conducted since 1955 and is one of the oldest and most comprehensive continuing recreation surveys. The Survey collects information on the number of anglers, hunters, and wildlife watchers, how often they participate, and how much they spend on their activities in the United States.

Preparations for the 2011 Survey began in 2008 when the Association of Fish and Wildlife Agencies (AFWA) asked the Fish and Wildlife Service to coordinate the twelfth National Survey of wildlife-related recreation. Funding came from the Multistate Conservation Grant Programs, authorized by Wildlife and Sport Fish Restoration Acts, as amended.

Four regional technical committees were set up under the auspices of AFWA to ensure that State fish and wildlife agencies had an opportunity to participate in all phases of survey planning and design. The committees were made up of agency representatives.

We consulted with State and Federal agencies and nongovernmental organizations such as the American Sportfishing Association and National Shooting Sports Foundation to determine survey content. Other sportspersons' organizations and conservation

groups, industry representatives, and researchers also provided valuable advice.

Data collection for the Survey was carried out in two phases by the U.S. Census Bureau. The first phase was the screen which began in April 2011. During the screening phase, the Census Bureau interviewed a sample of 48,600 households nationwide, to determine who in the household had fished, hunted, or wildlife watched in 2010, and who had engaged or planned to engage in those activities in 2011. In most cases, one adult household member provided information for all members. The screen primarily covered 2010 activities while the next, more in-depth phase covered 2011 activities. For more information on the 2010 data, refer to Appendix B.

The second phase of data collection consisted of three detailed interview waves. The first wave began in April 2011 concurrent with the screen, the second in September 2011, and the last in January 2012. Interviews were conducted with samples of likely anglers, hunters, and wildlife watchers who were identified in the initial screening phase. Interviews were conducted primarily by telephone, with in-person interviews for respondents who could not be reached by phone. Respondents in the second survey phase were limited to those who were

at least 16 years old. Each respondent provided information pertaining only to his or her activities and expenditures. Sample sizes were designed to provide statistically reliable results at the state level. Altogether, interviews were completed for 11,330 anglers and hunters and 9,329 wildlife watchers. More detailed information on sampling procedures and response rates is found in Appendix D.

## Comparability With Previous Surveys

The 2011 Survey's questions and methodology were similar to those used in the 2006, 2001, 1996, and 1991 Surveys. Therefore, the estimates are comparable.

The methodology for these Surveys differs significantly from the 1955 to 1985 Surveys, so these estimates are not directly comparable to those of earlier surveys. Changes in methodology included reducing the recall period over which respondents had to report their activities and expenditures. Previous Surveys used a 12-month recall period which resulted in greater reporting bias. Research found that the amount of activity and expenditures reported in 12-month recall surveys was overestimated in comparison with that reported using shorter recall periods.



# *Highlights*



# Introduction

The National Survey of Fishing, Hunting, and Wildlife-Associated Recreation reports results from interviews with U.S. residents about their fishing, hunting, and wildlife watching. This report focuses on 2011 participation and expenditures of persons 16 years of age and older.

The Survey is a snapshot of one year. The information it collected tells us how many people participated and how much they spent on their activities in the State in 2011. It does not tell us how many anglers, hunters, and wildlife watchers there were because many do not participate every year. For example, based on information collected in the Survey's household screen phase, we can estimate that about 51 percent more anglers and 44 percent more hunters participated nationally in at least 1 of the 5 years prior to the screen survey year 2010.

In addition to 2011 estimates, we also provide trend information in the Highlights section and Appendix C of the report. The 2011 numbers reported can be compared with those in the 1991, 1996, 2001, and 2006 Survey reports because they used similar methodologies. The 2011 estimates should not be directly compared with results from Surveys conducted prior to 1991 because of changes in methodology to improve accuracy.

The report also provides information on participation in wildlife recreation in 2010, particularly of persons 6 to 15 years of age. The 2010 information is provided in Appendix B. Information about the Survey's scope and coverage is in Appendix D. The remainder of this section defines important terms used in the Survey.

This report does not provide information about the State's wildlife resources. That, and additional information on wildlife-related recreation, may be obtained from State fish and wildlife agencies. The Association of Fish and Wildlife Agencies can provide the addresses and telephone numbers of those agencies. The Association's website is [www.fishwildlife.org](http://www.fishwildlife.org).

Additionally, this report does not provide information about the State's number of licensed anglers and hunters. Historical license data can be found at [wsfrprograms.fws.gov](http://wsfrprograms.fws.gov).

## Wildlife-Related Recreation

Wildlife-related recreation is fishing, hunting, and wildlife-watching activities. These categories are not mutually exclusive because many individuals participated in more than one activity. Wildlife-related recreation is reported in two major categories: (1) fishing and hunting, and (2) wildlife watching, which includes observing, photographing, and feeding fish or wildlife.

## Fishing and Hunting

This Survey reports information about residents of the United States who fished or hunted in 2011, regardless of whether they were licensed. The fishing and hunting sections report information for three groups: (1) sportspersons, (2) anglers, and (3) hunters.

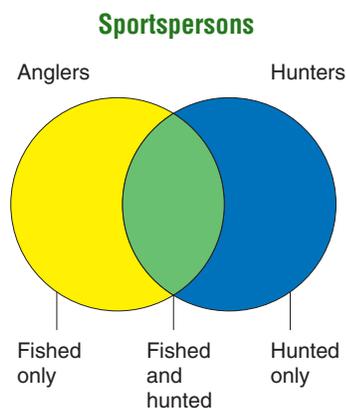
## Sportspersons

Sportspersons are those who fished or hunted. Individuals who fished or hunted commercially in 2011 are reported as sportspersons *only* if they also fished or hunted for recreation. The sportspersons group is composed of the three subgroups shown in the diagram below: (1) those that fished and hunted, (2) those that only fished, and (3) those that only hunted.

The total number of sportspersons is equal to the sum of people who only fished, only hunted, and both hunted and fished. It is not the sum of all anglers and all hunters because those people who both fished and hunted are included in both the angler and hunter population and would be incorrectly counted twice.

## Anglers

Anglers are sportspersons who only fished plus those who fished and hunted. Anglers include not only licensed hook and line anglers, but also those who have no license and those who use special methods such as fishing with spears. Three types of fishing are reported: (1) freshwater, excluding the Great Lakes, (2) Great Lakes, and (3) saltwater. Since many anglers participated in more than one type of fishing, the total number of anglers is less than the sum of the three types of fishing.



## Hunters

Hunters are sportspersons who only hunted plus those who hunted and fished. Hunters include not only licensed hunters using rifles and shotguns, but also those who have no license and those who engage in hunting with archery equipment, muzzleloaders, other primitive firearms, or pistols or handguns.

Four types of hunting are reported: (1) big game, (2) small game, (3) migratory bird, and (4) other animals. Since many hunters participated in more than one type of hunting, the sum of hunters for big game, small game, migratory bird, and other animals exceeds the total number of hunters.

## Wildlife Watchers

Since 1980, the National Survey has included information on wildlife-watching activities in addition to fishing and hunting. However, unlike the 1980 and 1985 Surveys, the National Surveys since 1991 have

collected data only for those activities where the *primary* purpose was wildlife watching (observing, photographing, or feeding wildlife).

The 2011 Survey uses a strict definition of wildlife watching. Participants must either take a “special interest” in wildlife around their homes or take a trip for the “primary purpose” of wildlife watching. Secondary wildlife watching, such as incidentally observing wildlife while pleasure driving, is not included.

Two types of wildlife-watching activity are reported: (1) away-from-home (formerly nonresidential) activities and (2) around-the-home (formerly residential) activities. Because some people participated in more than one type of wildlife watching, the sum of participants in each type will be greater than the total number of wildlife watchers. Only those engaged in activities whose *primary* purpose was wildlife watching are included in the Survey. The two types of wildlife-watching activity are defined below.

## Away-From-Home

This group includes persons who took trips or outings of at least 1 mile from home for the primary purpose of observing, feeding, or photographing fish and wildlife. Trips to fish or hunt or scout and trips to zoos, circuses, aquariums, and museums are not considered wildlife-watching activities.

## Around-The-Home

This group includes those who participated within 1 mile of home and involves one or more of the following: (1) closely observing or trying to identify birds or other wildlife; (2) photographing wildlife; (3) feeding birds or other wildlife; (4) maintaining natural areas of at least 1/4 acre where benefit to wildlife is the primary concern; (5) maintaining plantings (shrubs, agricultural crops, etc.) where benefit to wildlife is the primary concern; or (6) visiting parks and natural areas within 1 mile of home for the primary purpose of observing, feeding, or photographing wildlife.

# 2011 Nevada Summary

## Activities in Nevada by Residents and Nonresidents

### Fishing

|  |                |
|--|----------------|
| <b>Anglers</b> . . . . .                   | <b>147,000</b> |
| Days of fishing . . . . .                  | 1,400,000      |
| Average days per angler . . . . .          | 10             |
| Total expenditures . . . . .               | \$138,800,000  |
| Trip-related . . . . .                     | \$83,275,000   |
| Equipment and other . . . . .              | \$55,525,000   |
| Average per angler . . . . .               | \$899          |
| Average trip expenditure per day . . . . . | \$59           |

### Hunting

|  |               |
|--|---------------|
| <b>Hunters</b> . . . . .                   | <b>43,000</b> |
| Days of hunting . . . . .                  | 748,000       |
| Average days per hunter . . . . .          | 17            |
| Total expenditures . . . . .               | \$204,137,000 |
| Trip-related . . . . .                     | \$86,725,000  |
| Equipment and other . . . . .              | \$117,412,000 |
| Average per hunter . . . . .               | \$3,897       |
| Average trip expenditure per day . . . . . | \$116         |

### Wildlife Watching

|   |                |
|---|----------------|
| <b>Total wildlife-watching participants</b> . . . . .     | <b>643,000</b> |
| Away-from-home participants . . . . .                     | 287,000        |
| Around-the-home participants . . . . .                    | 465,000        |
| Days of participation away from home . . . . .            | 1,619,000      |
| Average days of participation<br>away from home . . . . . | 6              |
| Total expenditures . . . . .                              | \$682,028,000  |
| Trip-related . . . . .                                    | \$114,366,000  |
| Equipment and other . . . . .                             | \$567,662,000  |
| Average per participant . . . . .                         | \$1,035        |
| Average trip expenditure per day . . . . .                | \$71           |

## Activities by Nevada Residents Both Inside and Outside Nevada

### Fishing

|  |                |
|--|----------------|
| <b>Anglers</b> . . . . .                   | <b>156,000</b> |
| Days of fishing . . . . .                  | 2,044,000      |
| Average days per angler . . . . .          | 13             |
| Total expenditures . . . . .               | \$203,273,000  |
| Trip-related . . . . .                     | \$123,383,000  |
| Equipment and other . . . . .              | \$79,890,000   |
| Average per angler . . . . .               | \$1,307        |
| Average trip expenditure per day . . . . . | \$60           |

### Hunting

|  |               |
|--|---------------|
| <b>Hunters</b> . . . . .                   | <b>49,000</b> |
| Days of hunting . . . . .                  | 897,000       |
| Average days per hunter . . . . .          | 18            |
| Total expenditures . . . . .               | \$206,443,000 |
| Trip-related . . . . .                     | \$110,141,000 |
| Equipment and other . . . . .              | \$96,302,000  |
| Average per hunter . . . . .               | \$4,202       |
| Average trip expenditure per day . . . . . | \$123         |

### Wildlife Watching

|   |                |
|---|----------------|
| <b>Total wildlife-watching participants</b> . . . . .     | <b>504,000</b> |
| Away-from-home participants . . . . .                     | 191,000        |
| Around-the-home participants . . . . .                    | 465,000        |
| Days of participation away from home . . . . .            | 2,631,000      |
| Average days of participation<br>away from home . . . . . | 14             |
| Total expenditures . . . . .                              | \$797,267,000  |
| Trip-related . . . . .                                    | \$173,529,000  |
| Equipment and other . . . . .                             | \$623,739,000  |
| Average per participant . . . . .                         | \$1,583        |
| Average trip expenditure per day . . . . .                | \$66           |

# Wildlife-Related Recreation

## Participation in Nevada

The 2011 Survey found that 734 thousand Nevada residents and nonresidents 16 years old and older fished, hunted, or wildlife watched in Nevada. Of the total number of participants, 147 thousand fished, 43 thousand hunted, and 643 thousand participated in wildlife-watching activities, which includes observing, feeding, and photographing wildlife. The sum of anglers, hunters, and wildlife watchers exceeds the total number of participants in wildlife-related recreation because many of the individuals engaged in more than one wildlife-related activity.

## Participation in 2011 by 6- to 15-Year-Old Nevada Residents

The focus of the National Survey is on the activity of participants 16 years old and older. However, the activity of 6- to 15-year-olds can be calculated using the screening data covering the year 2010. It is assumed for estimation purposes that the proportion of 6- to 15-year-old

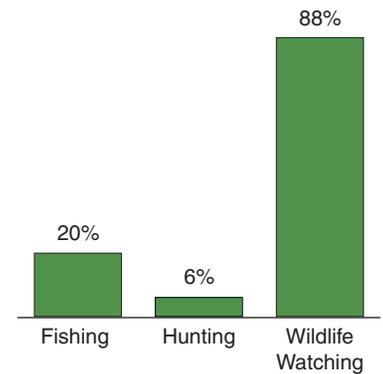
participants to participants 16 years old and older remained the same in 2010 and 2011. Based on this assumption, in addition to the 156 thousand resident anglers 16 years old or older in Nevada, there were 49 thousand resident anglers 6 to 15 years old. Also, there were 49 thousand Nevadans 16 years old and older and 6 thousand Nevadans 6 to 15 years old who hunted. Finally, there were 504 thousand Nevadans 16 years old and older and 125 thousand Nevadans 6 to 15 years old who wildlife watched. Information on 2010 data for 6- to 15-year-olds is provided in Appendix B.

## Expenditures in Nevada

In 2011, state residents and nonresidents spent \$1.2 billion on wildlife recreation in Nevada. Of that total, trip-related expenditures were \$284 million and equipment expenditures totaled \$512 million. The remaining \$387 million was spent on licenses, contributions, land ownership and leasing, and other items.

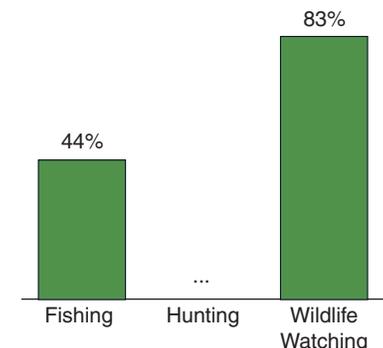
## Percent of Total Participants by Activity

(Total: 734 thousand participants)



## Percent of Total Residential Participants 6 to 15 Years Old by Activity: 2010

(Total: 156 thousand participants)



... Sample size too small (less than 10) to report data reliably.

## Participants in Wildlife-Related Recreation in Nevada: 2011

(U.S. residents 16 years old and older)

**Total** ..... 734 thousand

### Sportspersons

**Total** ..... 163 thousand

Anglers ..... 147 thousand

Hunters ..... 43 thousand

### Wildlife Watchers

**Total** ..... 643 thousand

Away from home ..... 287 thousand

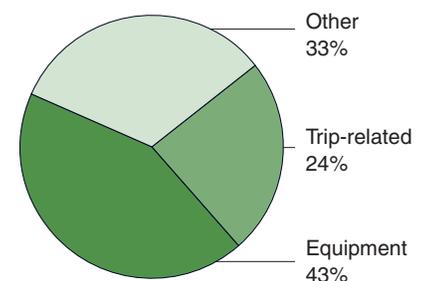
Around the home ..... 465 thousand

Note: Detail does not add to total because of multiple responses.

Source: Tables 1 and 24.

## Wildlife-Related Recreation Expenditures in Nevada

(Total: \$1.2 billion)



# Sportspersons

In 2011, 163 thousand state resident and nonresident sportspersons 16 years old and older fished or hunted in Nevada. This group was comprised of 147 thousand anglers (90 percent of all

sportspersons) and 43 thousand hunters (27 percent of all sportspersons). Among the 163 thousand sportspersons who fished or hunted in the state, 120 thousand (73 percent) fished but did not hunt

in Nevada. Another 17 thousand (10 percent) hunted but did not fish there. The remaining 27 thousand (16 percent) fished and hunted in Nevada in 2011.

## Sportspersons' Participation in Nevada

(State residents and nonresidents 16 years old and older)

|   |                     |
|---|---------------------|
| <b>Sportspersons (fished or hunted)</b> ..... | <b>163 thousand</b> |
| <b>Anglers</b> .....                          | <b>147 thousand</b> |
| Fished only.....                              | 120 thousand        |
| Fished and hunted.....                        | 27 thousand         |
| <b>Hunters</b> .....                          | <b>43 thousand</b>  |
| Hunted only.....                              | 17 thousand         |
| Hunted and fished.....                        | 27 thousand         |

Note: Detail does not add to total because of multiple responses.

Source: Table 1.

# Anglers

## Participants and Days of Fishing

In 2011, 147 thousand state residents and nonresidents 16 years old and older fished in Nevada. Of this total, 114 thousand anglers (78 percent) were state residents. Anglers fished a total of 1.4 million days in Nevada—an average of 10 days per angler. State residents fished

1.3 million days—93 percent of all fishing days in Nevada.

A large majority of Nevada residents who fished anywhere in the United States did so in their resident state. There were 156 thousand Nevada residents 16 years old and older who fished in the

United States in 2011 for a total of 2.0 million days. An estimated 74 percent of all Nevada residents who fished did so in their home state. Of all fishing days by Nevada residents, 63 percent or 1.3 million were in their home state. For further details about fishing in Nevada, see Table 3.

### Anglers in Nevada

(State residents and nonresidents 16 years old and older)

|                              |                     |
|------------------------------|---------------------|
| <b>Anglers</b> .....         | <b>147 thousand</b> |
| Residents .....              | 114 thousand        |
| Nonresidents .....           | ...                 |
| <b>Days of fishing</b> ..... | <b>1.4 million</b>  |
| Residents .....              | 1.3 million         |
| Nonresidents .....           | ...                 |

... Sample size too small (less than 10) to report data reliably.

Source: Table 3.

### In State/Out of State

(State residents 16 years old and older)

|                              |                     |
|------------------------------|---------------------|
| <b>Nevada anglers</b> .....  | <b>156 thousand</b> |
| In Nevada .....              | 114 thousand        |
| In other states .....        | 68 thousand         |
| <b>Days of fishing</b> ..... | <b>2.0 million</b>  |
| In Nevada .....              | 1.3 million         |
| In other states .....        | 749 thousand        |

Note: Detail does not add to total because of multiple responses.

Source: Table 3.

## Fishing Expenditures in Nevada

All fishing-related expenditures in Nevada totaled \$139 million in 2011. Trip-related expenditures, including food and lodging, transportation, and other expenses totaled \$83 million—60 percent of all fishing expenditures. Expenditures for food and lodging were \$34 million and transportation expenditures were \$32 million. Other trip expenses, such as equipment rental, bait, and cooking fuel, totaled \$17 million. Each angler spent an average of \$560 on trip-related costs during 2011.

Anglers spent \$49 million on equipment in Nevada in 2011, 35 percent of all fishing expenditures. Fishing equipment (rods, reels, lines, etc.) spending totaled \$22 million—45 percent of the equipment total. Auxiliary equipment expenditures (tents, special fishing clothing, etc.) and special equipment expenditures (boats, vans, etc.) amounted to \$27 million—55 percent of the equipment total. Expenditures classified as special and auxiliary equipment are on items that were purchased for fishing but could be used in activities other than fishing.

The purchase of other items, such as magazines, membership dues, licenses, permits, stamps, and land leasing and ownership, amounted to \$6 million—5 percent of all fishing expenditures. For more details about fishing expenditures in Nevada, see Tables 19 and 21 through 23.

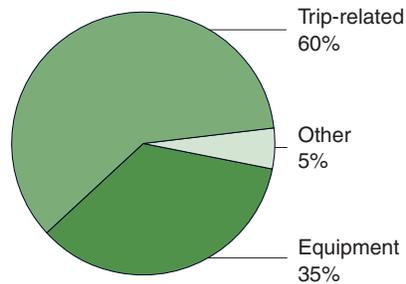
## Fishing Expenditures in Nevada

(State residents and nonresidents 16 years old and older)

|                                 |                      |
|---------------------------------|----------------------|
| <b>Total</b> . . . . .          | <b>\$139 million</b> |
| Trip-related . . . . .          | \$83 million         |
| Equipment . . . . .             | \$49 million         |
| Fishing . . . . .               | \$22 million         |
| Auxiliary and special . . . . . | \$27 million         |
| Other . . . . .                 | \$6 million          |

Source: Table 19.

**Fishing Expenditures in Nevada**  
(Total: \$139 million)



# Hunters

## Participants and Days of Hunting

In 2011, there were 43 thousand residents and nonresidents 16 years old and older who hunted in Nevada. Resident hunters numbered 39 thousand, accounting for 91 percent of the hunters in Nevada. Residents and nonresidents hunted 748 thousand days in 2011, an

average of 17 days per hunter. Residents hunted 699 thousand days in Nevada or 93 percent of all hunting days.

There were 49 thousand Nevada residents 16 years old and older who hunted in the United States in 2011 for a total of 897 thousand days. An

estimated 80 percent of all Nevada residents who hunted did so in their home state. Of all hunting days by Nevada residents, 78 percent or 699 thousand were spent pursuing game in their home state. For further information on hunting activities by Nevada residents, see Table 3.

### Hunters in Nevada

(State residents and nonresidents 16 years old and older)

|                              |                     |
|------------------------------|---------------------|
| <b>Hunters</b> .....         | <b>43 thousand</b>  |
| Residents .....              | 39 thousand         |
| Nonresidents.....            | ...                 |
| <b>Days of hunting</b> ..... | <b>748 thousand</b> |
| Residents .....              | 699 thousand        |
| Nonresidents.....            | ...                 |

... Sample size too small (less than 10) to report data reliably.  
Source: Table 3.

### In State/Out of State

(State residents 16 years old and older)

|                              |                     |
|------------------------------|---------------------|
| <b>Nevada hunters</b> .....  | <b>49 thousand</b>  |
| In Nevada .....              | 39 thousand         |
| In other states.....         | 23 thousand         |
| <b>Days of hunting</b> ..... | <b>897 thousand</b> |
| In Nevada .....              | 699 thousand        |
| In other states.....         | 198 thousand        |

Note: Detail does not add to total because of multiple responses.  
Source: Table 3.

## Hunting Expenditures in Nevada

All hunting-related expenditures in Nevada totaled \$204 million in 2011. Trip-related expenses, such as food and lodging, transportation, and other trip expenses, totaled \$87 million—42 percent of total expenditures. Expenditures for food and lodging were \$25 million and transportation expenditures were \$29 million. Other trip expenses, such as equipment rental, totaled \$32 million for the year. The average trip-related expenditure per hunter was \$1,996.

Hunters spent \$80 million on equipment—39 percent of all hunting expenditures. Hunting equipment (guns, ammunition, etc.) totaled \$46 million and made up 57 percent of all equipment costs. Hunters spent \$34 million on auxiliary equipment (tents, special hunting clothes, etc.) and special equipment (boats, vans, etc.), accounting for 43 percent of total equipment expenditures for hunting. Expenditures classified as special and auxiliary equipment are on items that were purchased for hunting but could be used in activities other than hunting.

The purchase of other items, such as magazines, membership dues, licenses, permits, and land leasing, and ownership, cost hunters \$37 million—18 percent of all hunting expenditures. For more details on hunting expenditures in Nevada, see Tables 20 through 23.

## Hunting Expenditures in Nevada

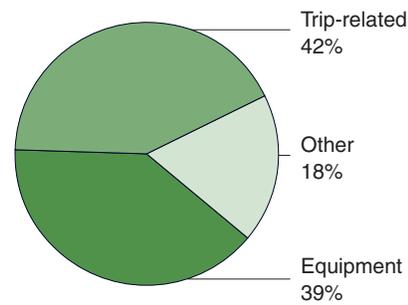
(State residents and nonresidents 16 years old and older)

|                             |                      |
|-----------------------------|----------------------|
| <b>Total</b> .....          | <b>\$204 million</b> |
| Trip-related .....          | \$87 million         |
| Equipment .....             | \$80 million         |
| Hunting .....               | \$46 million         |
| Auxiliary and special ..... | \$34 million         |
| Other .....                 | \$37 million         |

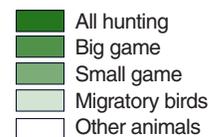
Source: Table 20.

## Hunting Expenditures in Nevada

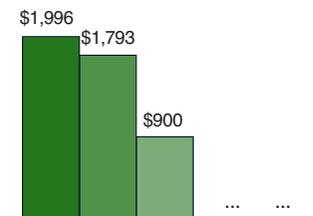
(Total: \$204 million)



## Comparative Hunting Expenditures by Type of Hunting



Trip expenditures per hunter:



Trip expenditures per day:



... Sample size too small (less than 10) to report data reliably.

# Wildlife Watchers

## Participants and Days of Activity

In 2011, 643 thousand U.S. residents 16 years old and older fed, observed, or photographed wildlife in Nevada. Most of them, 72 percent (465 thousand), enjoyed their activities close to home and are called “around-the-home” participants. Those persons who enjoyed wildlife at least one mile from

home are called “away-from-home” participants. People participating in away-from-home activities in Nevada in 2011 numbered 287 thousand—45 percent of all wildlife watchers in Nevada. Of the 287 thousand, 132 thousand were state residents and 154 thousand were nonresidents.

Nevadans 16 years old and older who enjoyed away-from-home wildlife watching within their state totaled 132 thousand. Of this group, 124 thousand participants observed wildlife, 60 thousand fed wildlife, and 95 thousand photographed wildlife. Since some individuals engaged in more than one of the away-from-home activities during the year, the sum of wildlife observers, feeders, and photographers exceeds the total number away-from-home participants.

Nevadans spent 1.2 million days engaged in away-from-home wildlife-watching activities in their state. They spent 908 thousand days observing, 197 thousand days feeding, and 534 thousand days photographing wildlife. For further details about away-from-home activities, see Table 25.

Nevada residents also took an active interest in wildlife around their homes. In 2011, 465 thousand state residents enjoyed observing, feeding, and photographing wildlife within one mile of their homes. Among this around-the-home group, 332 thousand fed, 323 thousand observed, and 164 thousand photographed wildlife around their homes. Another 43 thousand participants maintained natural areas of one-quarter acre or more for wildlife; 93 thousand participants maintained plantings for the benefit of wildlife; and 88 thousand participants visited parks or natural areas within a mile of home because of the wildlife. Summing the number of participants in these six activities results in an estimate that exceeds the total number of around-the-home participants because many people participated in more than one type of around-the-home activity. In addition, 33 percent of Nevadan around-the-home wildlife watchers also enjoyed wildlife away from home. For further details about Nevada residents participating in around-the-home wildlife-watching activities, see Table 27.

### Wildlife-Watching Participants in Nevada

(State residents and nonresidents 16 years old and older)

|                       |                     |
|-----------------------|---------------------|
| <b>Total</b> .....    | <b>643 thousand</b> |
| Around the home ..... | 465 thousand        |
| Away from home .....  | 287 thousand        |

Note: Detail does not add to total because of multiple responses.  
Source: Table 24.

### Away-From-Home Wildlife-Watching Participation in Nevada

(State residents and nonresidents 16 years old and older)

|                                  |                     |
|----------------------------------|---------------------|
| <b>Participants, total</b> ..... | <b>287 thousand</b> |
| Observe wildlife .....           | 263 thousand        |
| Photograph wildlife .....        | 197 thousand        |
| Feed wildlife .....              | 60 thousand         |
| <b>Days, total</b> .....         | <b>1.6 million</b>  |
| Observe wildlife .....           | 1.2 million         |
| Photograph wildlife .....        | 759 thousand        |
| Feed wildlife .....              | 197 thousand        |

Note: Detail does not add to total because of multiple responses.  
Source: Table 25.

### Around-The-Home Wildlife-Watching Participation in Nevada

(State residents 16 years old and older)

|                                     |                     |
|-------------------------------------|---------------------|
| <b>Total</b> .....                  | <b>465 thousand</b> |
| Feed wildlife .....                 | 332 thousand        |
| Observe wildlife .....              | 323 thousand        |
| Photograph wildlife .....           | 164 thousand        |
| Maintain natural areas .....        | 43 thousand         |
| Maintain plantings .....            | 93 thousand         |
| Visit parks and natural areas ..... | 88 thousand         |

Note: Detail does not add to total because of multiple responses.  
Source: Table 27.

## Wild Bird Observers

Bird watching attracted many wildlife enthusiasts in Nevada. In 2011, 447 thousand people observed birds around the home and on trips in the state. A majority, 66 percent (296 thousand), observed wild birds around the home while 53 percent (238 thousand) took trips away from home to watch birds.

## Wildlife-Watching Expenditures in Nevada

Wildlife watchers spent \$682 million on wildlife-watching activities in Nevada in 2011. Trip-related expenditures, including food and lodging (\$62 million), transportation (\$48 million), and other trip expenses (\$5 million), such as equipment rental, amounted to \$114 million. This summation comprised 17 percent of all wildlife-watching expenditures by participants. The average of the trip-related expenditures for away-from-home participants was \$359 per person in 2011.

Wildlife-watching participants spent nearly \$276 million on equipment—40 percent of all their expenditures. Specifically, wildlife-watching equipment (binoculars, special clothing, etc.) expenditures totaled \$53 million, 19 percent of the equipment total. Auxiliary equipment expenditures (tents, backpacking equipment, etc.) and special equipment expenditures (campers, trucks, etc.) amounted to \$223 million—81 percent of all equipment costs. Expenditures classified as special and auxiliary equipment are on items that were purchased for wildlife-watching recreation but could be used in activities other than wildlife watching.

Other items purchased by wildlife-watching participants, such as magazines, membership dues and contributions, land leasing and ownership, and plantings, totaled \$292 million—43 percent of all wildlife-watching expenditures. For more details about wildlife-watching expenditures in Nevada, see Table 31.

## Wild Bird Observers in Nevada

(State residents and nonresidents 16 years old and older)

|                                  |                     |
|----------------------------------|---------------------|
| <b>Participants, total</b> ..... | <b>447 thousand</b> |
| Around the home .....            | 296 thousand        |
| Away from home .....             | 238 thousand        |
| <b>Days, total</b> .....         | <b>41.8 million</b> |
| Around the home .....            | 40.7 million        |
| Away from home .....             | 1.1 million         |

Note: Detail does not add to total because of multiple responses.

Source: Table 29.

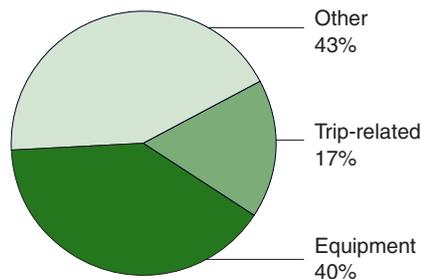
## Wildlife-Watching Expenditures in Nevada

(State residents and nonresidents 16 years old and older)

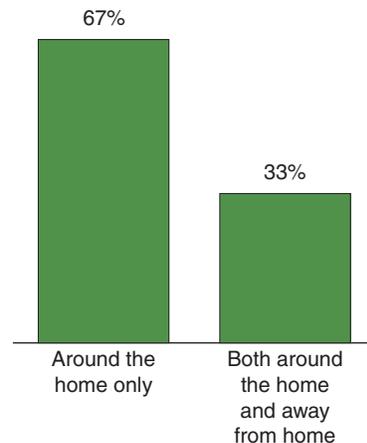
|                             |                      |
|-----------------------------|----------------------|
| <b>Total</b> .....          | <b>\$682 million</b> |
| Trip-related .....          | \$114 million        |
| Equipment .....             | \$276 million        |
| Wildlife watching .....     | \$53 million         |
| Auxiliary and special ..... | \$223 million        |
| Other .....                 | \$292 million        |

Source: Table 31.

**Wildlife-Watching Expenditures in Nevada**  
(Total: \$682 million)



**Away-From-Home Activity by Around-The-Home Participants**  
(Total: 465 thousand participants)



# 2001–2011 Comparison

Comparing the estimates from the 2001, 2006, and 2011 Surveys gives a perspective on the state of wildlife-related recreation in the early twenty-first century in Nevada. Only the most general recreation comparisons are presented here.

The best way to compare estimates from surveys is not to compare the estimates themselves but to compare the confidence intervals around the esti-

mates. A 90-percent confidence interval around the estimate gives the range of estimates that 90 percent of all possible representative samples would supply. If the 90-percent confidence intervals of the two surveys' estimates overlap, it is not possible to say the two estimates are statistically different.

The state resident estimates cover the participation and expenditure activity of Nevada residents anywhere in the

United States. The in-state estimates cover the participation, day, and expenditure activity if U.S. residents in Nevada.

The expenditure estimates were made comparable by adjusting the estimates for inflation—all estimates are in 2011 dollars.

## Nevada 2001 and 2011 Comparison

(Numbers in thousands. Expenditures in 2011 dollars)

|   | 2001      | 2011      | Percent change    |
|---|-----------|-----------|-------------------|
| <b>Fishing</b>  |           |           |                   |
| Anglers in state . . . . .                                | 172       | 147       | NS <sub>-15</sub> |
| Days in state . . . . .                                   | 1,575     | 1,400     | NS <sub>-11</sub> |
| In-state expenditures by U.S. anglers . . . . .           | \$275,263 | \$138,800 | NS <sub>-50</sub> |
| State resident anglers . . . . .                          | 180       | 156       | NS <sub>-13</sub> |
| Total expenditures by state residents . . . . .           | \$299,240 | \$203,273 | NS <sub>-32</sub> |
| <b>Hunting</b>  |           |           |                   |
| Hunters in state . . . . .                                | 47        | 43        | NS <sub>-9</sub>  |
| Days in state . . . . .                                   | 490       | 748       | NS <sub>53</sub>  |
| In-state expenditures by U.S. hunters . . . . .           | \$170,326 | \$204,137 | NS <sub>20</sub>  |
| State resident hunters . . . . .                          | 49        | 49        | 0                 |
| Total expenditures by state residents . . . . .           | \$189,619 | \$206,443 | NS <sub>9</sub>   |
| <b>Away-From-Home Wildlife Watching</b>                   |           |           |                   |
| Participants in state . . . . .                           | 309       | 287       | NS <sub>-7</sub>  |
| Days in state . . . . .                                   | 1,567     | 1,619     | NS <sub>3</sub>   |
| State resident participants . . . . .                     | 128       | 191       | NS <sub>49</sub>  |
| <b>Around-The-Home Wildlife Watching</b>                  |           |           |                   |
| Total participants . . . . .                              | 300       | 465       | 55                |
| Observers . . . . .                                       | 194       | 323       | 66                |
| Feeders . . . . .   | 229       | 332       | 45                |
| <b>Wildlife-Watching Expenditures</b>                     |           |           |                   |
| In-state expenditures by U.S. wildlife watchers . . . . . | \$317,715 | \$682,028 | NS <sub>115</sub> |
| Total expenditures by state residents . . . . .           | \$369,376 | \$797,267 | NS <sub>116</sub> |

<sup>NS</sup> Not different from zero at the 10 percent level of significance

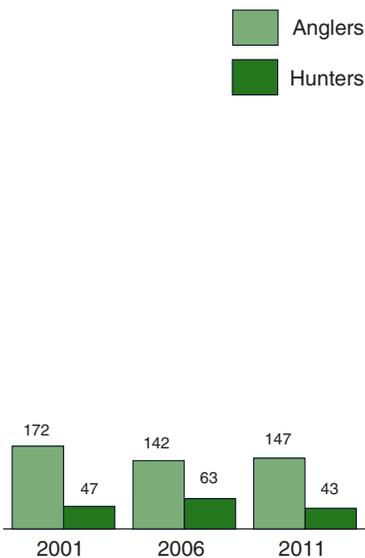
## Nevada 2006 and 2011 Comparison

(Numbers in thousands. Expenditures in 2011 dollars)

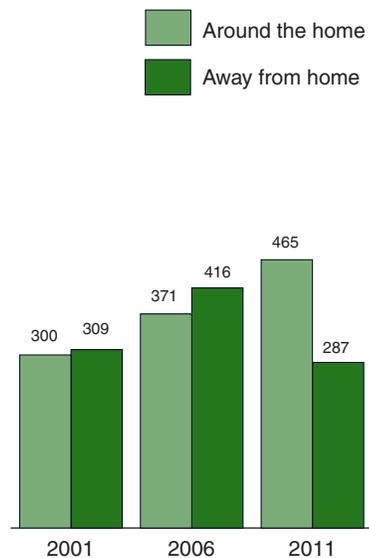
|   | 2006      | 2011      | Percent change    |
|---|-----------|-----------|-------------------|
| <b>Fishing</b>  |           |           |                   |
| Anglers in state . . . . .                                | 142       | 147       | NS <sup>4</sup>   |
| Days in state . . . . .                                   | 1,526     | 1,400     | NS <sup>-8</sup>  |
| In-state expenditures by U.S. anglers . . . . .           | \$161,378 | \$138,800 | NS <sup>-14</sup> |
| State resident anglers . . . . .                          | 156       | 156       | 0                 |
| Total expenditures by state residents . . . . .           | \$339,342 | \$203,273 | NS <sup>-40</sup> |
| <b>Hunting</b>  |           |           |                   |
| Hunters in state . . . . .                                | 63        | 43        | NS <sup>-32</sup> |
| Days in state . . . . .                                   | 615       | 748       | NS <sup>22</sup>  |
| In-state expenditures by U.S. hunters . . . . .           | \$144,023 | \$204,137 | NS <sup>42</sup>  |
| State resident hunters . . . . .                          | 60        | 49        | NS <sup>-18</sup> |
| Total expenditures by state residents . . . . .           | \$167,086 | \$206,443 | NS <sup>24</sup>  |
| <b>Away-From-Home Wildlife Watching</b>                   |           |           |                   |
| Participants in state . . . . .                           | 416       | 287       | NS <sup>-31</sup> |
| Days in state . . . . .                                   | 2,298     | 1,619     | NS <sup>-30</sup> |
| State resident participants . . . . .                     | 168       | 191       | NS <sup>14</sup>  |
| <b>Around-The-Home Wildlife Watching</b>                  |           |           |                   |
| Total participants . . . . .                              | 371       | 465       | NS <sup>25</sup>  |
| Observers . . . . .                                       | 254       | 323       | NS <sup>27</sup>  |
| Feeders . . . . .   | 283       | 332       | NS <sup>17</sup>  |
| <b>Wildlife-Watching Expenditures</b>                     |           |           |                   |
| In-state expenditures by U.S. wildlife watchers . . . . . | \$404,164 | \$682,028 | NS <sup>69</sup>  |
| Total expenditures by state residents . . . . .           | \$517,638 | \$797,267 | NS <sup>54</sup>  |

<sup>NS</sup> Not different from zero at the 10 percent level of significance

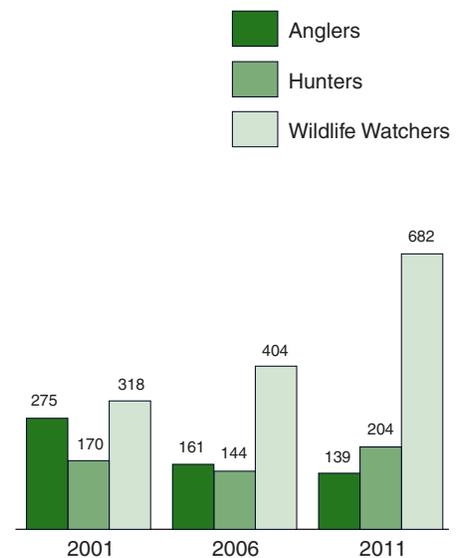
**Number of People Who Hunted and Fished in Nevada: 2001–2011**  
(In thousands)



**Number of People Who Wildlife Watched in Nevada: 2001–2011**  
(In thousands)



**Total Expenditures by Participants in Nevada**  
(In millions of 2011 dollars)



# *Tables*



# Guide to Statistical Tables

## Purpose and Coverage of Tables

The statistical tables of this report were designed to meet a wide range of needs for those interested in wildlife-related recreation. Special terms used in these tables are defined in Appendix A.

The tables are based on responses to the 2011 Survey, which was designed to collect data about participation in wildlife-related recreation. To have taken part in the Survey, a respondent must have been a U.S. resident (a resident of one of the 50 states or the District of Columbia). No one residing outside the United States (including U.S. citizens) was eligible for interviewing. Therefore, reported state and national totals do not include participation by those who were not U.S. residents or who were U.S. citizens residing outside the United States.

## Comparability With Previous Surveys

The numbers reported can be compared with those in the 1991, 1996, 2001, and 2006 Survey Reports. The methodology used in 2011 was similar to that used in those Surveys. These results should not be directly compared to results from Surveys earlier than 1991 since there were major changes in methodology. These changes were made to improve accuracy in the information provided.

## Coverage of an Individual Table

Since the Survey covers many activities in various places by participants of different ages, all table titles, headnotes, stubs, and footnotes are designed to identify and articulate each item being reported in the table. For example, the title of Table 2 shows that data about anglers and hunters, their days of participation, and their number of trips are reported by type of activity. By contrast, the title of Table 7 indicates that it contains data on freshwater anglers and the days they fished for different species.

## Percentages Reported in the Tables

Percentages are reported in the tables for the convenience of the user. When exclusive groups are being reported, the base of a percentage is apparent from its context because the percents add to 100 percent (plus or minus a rounding error). For example, Table 2 reports the number of trips taken by big game hunters, those taken by small game hunters, those taken by migratory bird hunters, and those taken by hunters pursuing other animals. These comprise 100 percent because they are exclusive categories.

Percents should not add to 100 when nonexclusive groups are being reported. Using Table 2 as an example again, note that adding the percentages associated with the total number of big game hunters, total small game hunters, total migratory bird hunters, and total hunters of other animals will not yield total hunters because respondents could hunt for more than one type of game.

When the base of the percentage is not apparent in context, it is identified in a footnote. For example, Table 15 reports two percentages with different bases: one base being the number of total participants at the head of the column and the other base being the total population who are described by the row category. Footnotes are used to clarify the bases of the reported percentages.

## Footnotes to the Tables

Footnotes are used to clarify the information or items that are being reported in a table. Symbols in the body of a table indicate important footnotes. The following symbols are used in the tables to refer to the same footnote each time they appear:

- \* Estimate based on a sample size of 10–29.
- ... Sample size too small to report data reliably.

Z Less than 0.5 percent.

X Not applicable.

NA Not available.

Estimates based upon fewer than ten responses are regarded as being based on a sample size that is too small for reliable reporting. An estimate based upon at least 10 but fewer than 30 responses is treated as an estimate based on a small sample size. Other footnotes appear, as necessary, to qualify or clarify the estimates reported in the tables. In addition, these two important footnotes appear frequently:

- Detail does not add to total because of multiple responses.
- Detail does not add to total because of multiple responses and nonresponse.

“Multiple responses” is a term used to reflect the fact that individuals or their characteristics fall into more than one category. Using Table 5 as an example, those who fished in saltwater and freshwater appear in both of these totals. Yet each angler is represented only once in the “Total, all fishing” row. Similarly, in Table 12, those who hunt for big game and small game are counted only once as a hunter in the “Total, all hunting” row. Therefore, totals will be smaller than the sum of subcategories when multiple responses exist.

“Nonresponse” exists because the Survey questions were answered voluntarily, and some respondents did not or could not answer all the questions.

**Table 1. Fishing and Hunting in Nevada by Resident and Nonresident Sportspersons: 2011**

(Population 16 years old and older. Numbers in thousands)

| Sportspersons   | Total, state residents and nonresidents |                          | State residents |                                   | Nonresidents |                                      |
|---|---|--------------------------|-----------------|-----------------------------------|--------------|--------------------------------------|
|   | Number                                  | Percent of sportspersons | Number          | Percent of resident sportspersons | Number       | Percent of nonresident sportspersons |
| <b>Total sportspersons (fished or hunted)</b> . . . . . | <b>163</b>                              | <b>100</b>               | <b>127</b>      | <b>100</b>                        | ...          | ...                                  |
| <b>Total anglers</b> . . . . .                          | <b>147</b>                              | <b>90</b>                | <b>114</b>      | <b>90</b>                         | ...          | ...                                  |
| Fished only . . . . .                                   | 120                                     | 73                       | 88              | 69                                | ...          | ...                                  |
| Fished and hunted . . . . .                             | *27                                     | *16                      | *27             | *21                               | ...          | ...                                  |
| <b>Total hunters</b> . . . . .                          | <b>43</b>                               | <b>27</b>                | <b>39</b>       | <b>31</b>                         | ...          | ...                                  |
| Hunted only . . . . .                                   | *17                                     | *10                      | *12             | *10                               | ...          | ...                                  |
| Hunted and fished . . . . .                             | *27                                     | *16                      | *27             | *21                               | ...          | ...                                  |

\* Estimate based on a sample size of 10–29. . . . Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses.

**Table 2. Anglers and Hunters, Days of Participation, and Trips in Nevada by Type of Fishing and Hunting: 2011**

(Population 16 years old and older. Numbers in thousands)

| Type of fishing and hunting              | Participants |            | Days of participation |            | Trips      |            |
|--|--------------|------------|-----------------------|------------|------------|------------|
|  | Number       | Percent    | Number                | Percent    | Number     | Percent    |
| <b>FISHING</b>                           |              |            |                       |            |            |            |
| <b>Total, all fishing</b> . . . . .      | <b>147</b>   | <b>100</b> | <b>1,400</b>          | <b>100</b> | <b>862</b> | <b>100</b> |
| Total, all freshwater . . . . .          | 147          | 100        | 1,400                 | 100        | 862        | 100        |
| Freshwater, except Great Lakes . . . . . | 147          | 100        | 1,400                 | 100        | 862        | 100        |
| Great Lakes . . . . .                    | (X)          | (X)        | (X)                   | (X)        | (X)        | (X)        |
| Saltwater . . . . .                      | (X)          | (X)        | (X)                   | (X)        | (X)        | (X)        |
| <b>HUNTING</b>                           |              |            |                       |            |            |            |
| <b>Total, all hunting</b> . . . . .      | <b>43</b>    | <b>100</b> | <b>748</b>            | <b>100</b> | <b>634</b> | <b>100</b> |
| Big game . . . . .                       | *30          | *70        | *343                  | *46        | *113       | *18        |
| Small game . . . . .                     | *20          | *46        | *316                  | *42        | *291       | *46        |
| Migratory birds . . . . .                | ...          | ...        | ...                   | ...        | ...        | ...        |
| Other animals . . . . .                  | ...          | ...        | ...                   | ...        | ...        | ...        |

\* Estimate based on a sample size of 10–29. . . . Sample size too small (less than 10) to report data reliably. (X) Not applicable.

Note: Detail does not add to total because of multiple responses.

**Table 3. Anglers and Hunters, Trips, and Days of Participation: 2011**

(Population 16 years old and older. Numbers in thousands)

| Anglers and hunters, trips and days of participation | Activity in Nevada                      |         |                 |         |              |         | Activity by Nevada residents in United States    |         |                       |         |                 |         |
|--|---|---------|-----------------|---------|--------------|---------|--|---------|-----------------------|---------|-----------------|---------|
|  | Total, state residents and nonresidents |         | State residents |         | Nonresidents |         | Total, in state of residence and in other states |         | In state of residence |         | In other states |         |
|  | Number                                  | Percent | Number          | Percent | Number       | Percent | Number   | Percent | Number                | Percent | Number          | Percent |
| <b>FISHING</b>                                       |   |         |                 |         |              |         |  |         |                       |         |                 |         |
| Total anglers .....                                  | 147                                     | 100     | 114             | 78      | ...          | ...     | 156  | 100     | 114                   | 74      | 68              | 43      |
| Total trips .....                                    | 862                                     | 100     | 794             | 92      | ...          | ...     | 1,245  | 100     | 794                   | 64      | 450             | 36      |
| Total days of fishing .....                          | 1,400                                   | 100     | 1,295           | 93      | ...          | ...     | 2,044  | 100     | 1,295                 | 63      | 749             | 37      |
| Average days of fishing .....                        | 10                                      | (X)     | 11              | (X)     | ...          | (X)     | 13   | (X)     | 11                    | (X)     | 11              | (X)     |
| <b>HUNTING</b>                                       |   |         |                 |         |              |         |  |         |                       |         |                 |         |
| Total hunters .....                                  | 43                                      | 100     | 39              | 91      | ...          | ...     | 49   | 100     | 39                    | 80      | *23             | *48     |
| Total trips .....                                    | 634                                     | 100     | 597             | 94      | ...          | ...     | 704  | 100     | 597                   | 85      | *107            | *15     |
| Total days of hunting .....                          | 748                                     | 100     | 699             | 93      | ...          | ...     | 897  | 100     | 699                   | 78      | *198            | *22     |
| Average days of hunting .....                        | 17                                      | (X)     | 18              | (X)     | ...          | (X)     | 18   | (X)     | 18                    | (X)     | *8              | (X)     |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably (X) Not applicable.

Note: Detail does not add to total because of multiple responses.

**Table 4. Nevada Resident Anglers and Hunters by Place Fished or Hunted: 2011**

(Population 16 years old and older. Numbers in thousands)

| Place fished or hunted          | Anglers    |            | Hunters   |            |
|---------------------------------|------------|------------|-----------|------------|
|                                 | Number     | Percent    | Number    | Percent    |
| <b>Total, all places</b> .....  | <b>156</b> | <b>100</b> | <b>49</b> | <b>100</b> |
| In-state only .....             | 84         | 54         | *26       | *52        |
| In-state and other states ..... | 30         | 20         | ...       | ...        |
| In other states only .....      | *37        | *24        | ...       | ...        |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 5. Nevada Resident Anglers and Hunters, Days of Participation, and Trips in the United States by Type of Fishing and Hunting: 2011**

(Population 16 years old and older. Numbers in thousands)

| Type of fishing and hunting          | Participants |            | Days of participation |            | Trips        |            |
|--------------------------------------|--------------|------------|-----------------------|------------|--------------|------------|
|                                      | Number       | Percent    | Number                | Percent    | Number       | Percent    |
| <b>FISHING</b>                       |              |            |                       |            |              |            |
| <b>Total, all fishing</b> .....      | <b>156</b>   | <b>100</b> | <b>2,044</b>          | <b>100</b> | <b>1,245</b> | <b>100</b> |
| Total, all freshwater .....          | 148          | 95         | 1,916                 | 94         | 1,174        | 94         |
| Freshwater, except Great Lakes ..... | 148          | 95         | 1,916                 | 94         | 1,174        | 94         |
| Great Lakes .....                    | ...          | ...        | ...                   | ...        | ...          | ...        |
| Saltwater .....                      | *16          | *10        | *95                   | *5         | *71          | *6         |
| <b>HUNTING</b>                       |              |            |                       |            |              |            |
| <b>Total, all hunting</b> .....      | <b>49</b>    | <b>100</b> | <b>897</b>            | <b>100</b> | <b>704</b>   | <b>100</b> |
| Big game .....                       | *35          | *71        | *462                  | *52        | *144         | *20        |
| Small game .....                     | *30          | *61        | *381                  | *42        | *346         | *49        |
| Migratory birds .....                | ...          | ...        | ...                   | ...        | ...          | ...        |
| Other animals .....                  | ...          | ...        | ...                   | ...        | ...          | ...        |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses.

**Table 6. Freshwater Anglers, Trips, Days of Fishing, and Type of Water Fished: 2011**

(Population 16 years old and older. Numbers in thousands)

| Anglers, trips, and days of fishing    | Activity in Nevada                      |            |                 |           |              |         |
|--|---|------------|-----------------|-----------|--------------|---------|
|  | Total, state residents and nonresidents |            | State residents |           | Nonresidents |         |
|  | Number                                  | Percent    | Number          | Percent   | Number       | Percent |
| <b>Total anglers</b> .....             | <b>147</b>                              | <b>100</b> | <b>114</b>      | <b>78</b> | ...          | ...     |
| <b>Total trips</b> .....               | <b>862</b>                              | <b>100</b> | <b>794</b>      | <b>92</b> | ...          | ...     |
| <b>Total days of fishing</b> .....     | <b>1,400</b>                            | <b>100</b> | <b>1,295</b>    | <b>93</b> | ...          | ...     |
| Average days of fishing .....          | 10                                      | (X)        | 11              | (X)       | ...          | (X)     |
| <b>ANGLERS</b>                         |   |            |                 |           |              |         |
| <b>Total, all types of water</b> ..... | <b>147</b>                              | <b>100</b> | <b>114</b>      | <b>78</b> | ...          | ...     |
| Ponds, lakes, or reservoirs .....      | 142                                     | 100        | 109             | 77        | ...          | ...     |
| Rivers or streams .....                | 39                                      | 100        | 37              | 93        | ...          | ...     |
| <b>DAYS</b>                            |   |            |                 |           |              |         |
| <b>Total, all types of water</b> ..... | <b>1,400</b>                            | <b>100</b> | <b>1,295</b>    | <b>93</b> | ...          | ...     |
| Ponds, lakes, or reservoirs .....      | 1,146                                   | 100        | 1,044           | 91        | ...          | ...     |
| Rivers or streams .....                | 440                                     | 100        | 437             | 99        | ...          | ...     |

... Sample size too small (less than 10) to report data reliably. (X) Not applicable.

Note: Detail does not add to total because of multiple responses.

**Table 7. Freshwater Anglers and Days of Fishing in Nevada by Type of Fish: 2011**

(Population 16 years old and older. Numbers in thousands)

| Anglers and days of fishing                           | Activity in Nevada                      |                        |                         |                 |                         |              |                         |
|---|---|------------------------|-------------------------|-----------------|-------------------------|--------------|-------------------------|
|   | Total, state residents and nonresidents |                        |                         | State residents |                         | Nonresidents |                         |
|   | Number                                  | Percent of total types | Percent of anglers/days | Number          | Percent of anglers/days | Number       | Percent of anglers/days |
| <b>ANGLERS</b>  |   |                        |                         |                 |                         |              |                         |
| <b>Total, all types of fish</b> .....                 | <b>147</b>                              | <b>100</b>             | <b>100</b>              | <b>114</b>      | <b>78</b>               | ...          | ...                     |
| Crappie .....   | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Panfish .....   | *9                                      | *6                     | *100                    | *9              | *100                    | ...          | ...                     |
| White bass, striped bass, striped bass hybrids .....  | *30                                     | *20                    | *100                    | *27             | *90                     | ...          | ...                     |
| Black bass .....                                      | *32                                     | *22                    | *100                    | *25             | *78                     | ...          | ...                     |
| Catfish, bullheads .....                              | *25                                     | *17                    | *100                    | *22             | *89                     | ...          | ...                     |
| Walleye, sauger .....                                 | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Northern pike, pickerel, muskie, muskie hybrids ..... | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Steelhead .....                                       | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Trout .....   | 76                                      | 52                     | 100                     | 73              | 96                      | ...          | ...                     |
| Salmon .....  | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Anything <sup>1</sup> .....                           | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Other freshwater fish .....                           | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| <b>DAYS</b>   |   |                        |                         |                 |                         |              |                         |
| <b>Total, all types of fish</b> .....                 | <b>1,400</b>                            | <b>100</b>             | <b>100</b>              | <b>1,295</b>    | <b>93</b>               | ...          | ...                     |
| Crappie .....   | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Panfish .....   | *264                                    | *19                    | *100                    | *264            | *100                    | ...          | ...                     |
| White bass, striped bass, striped bass hybrids .....  | *491                                    | *35                    | *100                    | *489            | *99                     | ...          | ...                     |
| Black bass .....                                      | *275                                    | *20                    | *100                    | *254            | *92                     | ...          | ...                     |
| Catfish, bullheads .....                              | *295                                    | *21                    | *100                    | *293            | *99                     | ...          | ...                     |
| Walleye, sauger .....                                 | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Northern pike, pickerel, muskie, muskie hybrids ..... | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Steelhead .....                                       | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Trout .....   | 768                                     | 55                     | 100                     | 742             | 97                      | ...          | ...                     |
| Salmon .....  | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Anything <sup>1</sup> .....                           | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |
| Other freshwater fish .....                           | ...                                     | ...                    | ...                     | ...             | ...                     | ...          | ...                     |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Respondent fished for no specific species and identified “Anything” from a list of categories of fish.

Note: Detail does not add to total because of multiple responses.

**Table 8. Great Lakes Anglers, Trips, and Days of Fishing in Nevada: 2011**

This table does not apply to this state.

**Table 9. Great Lakes Anglers and Days of Fishing in Nevada by Type of Fish: 2011**

This table does not apply to this state.

**Table 10. Saltwater Anglers, Trips, and Days of Fishing in Nevada: 2011**

This table does not apply to this state.

**Table 11. Saltwater Anglers and Days of Fishing in Nevada by Type of Fish: 2011**

This table does not apply to this state.

**Table 12. Hunters, Trips, and Days of Hunting in Nevada by Type of Hunting: 2011**

(Population 16 years old and older. Numbers in thousands)

| Hunters, trips, and days of hunting | Activity in Nevada                      |            |                 |           |              |         |
|-------------------------------------|---|------------|-----------------|-----------|--------------|---------|
|                                     | Total, state residents and nonresidents |            | State residents |           | Nonresidents |         |
|                                     | Number                                  | Percent    | Number          | Percent   | Number       | Percent |
| <b>HUNTERS</b>                      |   |            |                 |           |              |         |
| <b>Total, all hunting</b> . . . . . | <b>43</b>                               | <b>100</b> | <b>39</b>       | <b>91</b> | ...          | ...     |
| Big game . . . . .                  | *30                                     | *100       | *29             | *97       | ...          | ...     |
| Small game . . . . .                | *20                                     | *100       | *20             | *100      | ...          | ...     |
| Migratory birds . . . . .           | ...                                     | ...        | ...             | ...       | ...          | ...     |
| Other animals . . . . .             | ...                                     | ...        | ...             | ...       | ...          | ...     |
| <b>TRIPS</b>                        |   |            |                 |           |              |         |
| <b>Total, all hunting</b> . . . . . | <b>634</b>                              | <b>100</b> | <b>597</b>      | <b>94</b> | ...          | ...     |
| Big game . . . . .                  | *113                                    | *100       | *106            | *94       | ...          | ...     |
| Small game . . . . .                | *291                                    | *100       | *291            | *100      | ...          | ...     |
| Migratory birds . . . . .           | ...                                     | ...        | ...             | ...       | ...          | ...     |
| Other animals . . . . .             | ...                                     | ...        | ...             | ...       | ...          | ...     |
| <b>DAYS</b>                         |   |            |                 |           |              |         |
| <b>Total, all hunting</b> . . . . . | <b>748</b>                              | <b>100</b> | <b>699</b>      | <b>93</b> | ...          | ...     |
| Big game . . . . .                  | *343                                    | *100       | *336            | *98       | ...          | ...     |
| Small game . . . . .                | *316                                    | *100       | *316            | *100      | ...          | ...     |
| Migratory birds . . . . .           | ...                                     | ...        | ...             | ...       | ...          | ...     |
| Other animals . . . . .             | ...                                     | ...        | ...             | ...       | ...          | ...     |

\* Estimate based on a sample size of 10–29. . . . Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses.

**Table 13. Hunters and Days of Hunting in Nevada by Type of Game: 2011**

(Population 16 years old and older. Numbers in thousands)

| Type of game                                      | Hunters, state residents and nonresidents |            | Days of hunting |            |
|---|---|------------|-----------------|------------|
|   | Number                                    | Percent    | Number          | Percent    |
| <b>Total, all types of game</b> . . . . .         | <b>43</b>                                 | <b>100</b> | <b>748</b>      | <b>100</b> |
| <b>Big game, total</b> . . . . .                  | <b>*30</b>                                | <b>*70</b> | <b>*343</b>     | <b>*46</b> |
| Deer . . . . .                                    | *22                                       | *52        | *195            | *26        |
| Elk . . . . .                                     | ...                                       | ...        | ...             | ...        |
| Bear . . . . .                                    | ...                                       | ...        | ...             | ...        |
| Wild turkey . . . . .                             | ...                                       | ...        | ...             | ...        |
| Other big game . . . . .                          | ...                                       | ...        | ...             | ...        |
| <b>Small game, total</b> . . . . .                | <b>*20</b>                                | <b>*46</b> | <b>*316</b>     | <b>*42</b> |
| Rabbit, hare . . . . .                            | ...                                       | ...        | ...             | ...        |
| Quail . . . . .                                   | ...                                       | ...        | ...             | ...        |
| Grouse/prairie chicken . . . . .                  | ...                                       | ...        | ...             | ...        |
| Squirrel . . . . .                                | ...                                       | ...        | ...             | ...        |
| Pheasant . . . . .                                | ...                                       | ...        | ...             | ...        |
| Other small game . . . . .                        | ...                                       | ...        | ...             | ...        |
| <b>Migratory birds, total</b> . . . . .           | <b>...</b>                                | <b>...</b> | <b>...</b>      | <b>...</b> |
| Waterfowl . . . . .                               | ...                                       | ...        | ...             | ...        |
| Geese . . . . .                                   | ...                                       | ...        | ...             | ...        |
| Ducks . . . . .                                   | ...                                       | ...        | ...             | ...        |
| Doves . . . . .                                   | ...                                       | ...        | ...             | ...        |
| Other migratory birds . . . . .                   | ...                                       | ...        | ...             | ...        |
| <b>Other animals, total<sup>1</sup></b> . . . . . | <b>...</b>                                | <b>...</b> | <b>...</b>      | <b>...</b> |

\* Estimate based on a sample size of 10–29. . . . Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Includes groundhog, raccoon, fox, coyote, crow, prairie dog, etc.

Note: Detail does not add to total because of multiple responses.

**Table 14. Hunters and Days of Hunting in Nevada by Type of Land: 2011**

(Population 16 years old and older. Numbers in thousands)

| Hunters and days of hunting           | Total, state residents and nonresidents |            | State residents |            | Nonresidents |         |
|---------------------------------------|---|------------|-----------------|------------|--------------|---------|
|                                       | Number                                  | Percent    | Number          | Percent    | Number       | Percent |
| <b>HUNTERS</b>                        |   |            |                 |            |              |         |
| <b>Total, all types of land</b> ..... | <b>43</b>                               | <b>100</b> | <b>39</b>       | <b>100</b> | ...          | ...     |
| <b>Public land, total</b> .....       | <b>34</b>                               | <b>78</b>  | <b>*33</b>      | <b>*84</b> | ...          | ...     |
| Public land only .....                | *29                                     | *66        | *29             | *73        | ...          | ...     |
| Public and private land .....         | ...                                     | ...        | ...             | ...        | ...          | ...     |
| <b>Private land, total</b> .....      | <b>*12</b>                              | <b>*28</b> | ...             | ...        | ...          | ...     |
| Private land only .....               | ...                                     | ...        | ...             | ...        | ...          | ...     |
| Private and public land .....         | ...                                     | ...        | ...             | ...        | ...          | ...     |
| <b>DAYS</b>                           |   |            |                 |            |              |         |
| <b>Total, all types of land</b> ..... | <b>748</b>                              | <b>100</b> | <b>699</b>      | <b>100</b> | ...          | ...     |
| Public land <sup>1</sup> .....        | *597                                    | *80        | *594            | *85        | ...          | ...     |
| Private land <sup>2</sup> .....       | ...                                     | ...        | ...             | ...        | ...          | ...     |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Days of hunting on public land includes both days spent solely on public land and those spent on public and private land.

<sup>2</sup> Days of hunting on private land includes both days spent solely on private land and those spent on private and public land.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 15. Selected Characteristics of Nevada Resident Anglers and Hunters: 2011**

(Population 16 years old and older. Numbers in thousands)

| Characteristic                            | Population   |            | Sportspersons<br>(fished or hunted) |                          |                          | Anglers    |                          |                    | Hunters   |                          |                    |
|---|--------------|------------|-------------------------------------|--------------------------|--------------------------|------------|--------------------------|--------------------|-----------|--------------------------|--------------------|
|   | Number       | Percent    | Number                              | Percent who participated | Percent of sportspersons | Number     | Percent who participated | Percent of anglers | Number    | Percent who participated | Percent of hunters |
| <b>Total persons</b> .....                | <b>2,024</b> | <b>100</b> | <b>171</b>                          | <b>8</b>                 | <b>100</b>               | <b>156</b> | <b>8</b>                 | <b>100</b>         | <b>49</b> | <b>2</b>                 | <b>100</b>         |
| <b>Population Density of Residence</b>    |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| Urban .....                               | 1,624        | 80         | 134                                 | 8                        | 79                       | 123        | 8                        | 79                 | *34       | *2                       | *69                |
| Rural .....                               | 399          | 20         | 36                                  | 9                        | 21                       | 32         | 8                        | 21                 | *15       | *4                       | *31                |
| <b>Population Size of Residence</b>       |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| Metropolitan Statistical Area (MSA) ..... | 2,024        | 100        | 171                                 | 8                        | 100                      | 156        | 8                        | 100                | 49        | 2                        | 100                |
| 1,000,000 or more .....                   | 1,449        | 72         | 79                                  | 5                        | 46                       | 73         | 5                        | 47                 | ...       | ...                      | ...                |
| 250,000 to 999,999 .....                  | 313          | 15         | 48                                  | 15                       | 28                       | 40         | 13                       | 26                 | *24       | *8                       | *48                |
| 50,000 to 249,999 .....                   | 261          | 13         | 44                                  | 17                       | 25                       | 42         | 16                       | 27                 | *14       | *5                       | *28                |
| Outside MSA .....                         | ...          | ...        | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| <b>Sex</b>                                |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| Male .....                                | 998          | 49         | 135                                 | 13                       | 79                       | 122        | 12                       | 79                 | 43        | 4                        | 88                 |
| Female .....                              | 1,026        | 51         | 36                                  | 4                        | 21                       | 33         | 3                        | 21                 | ...       | ...                      | ...                |
| <b>Age</b>                                |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| 16 to 17 years .....                      | 75           | 4          | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| 18 to 24 years .....                      | 190          | 9          | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| 25 to 34 years .....                      | 384          | 19         | *14                                 | *4                       | *8                       | *14        | *4                       | *9                 | ...       | ...                      | ...                |
| 35 to 44 years .....                      | 355          | 18         | 47                                  | 13                       | 28                       | *39        | *11                      | *25                | *15       | *4                       | *30                |
| 45 to 54 years .....                      | 354          | 18         | 40                                  | 11                       | 24                       | 36         | 10                       | 23                 | *13       | *4                       | *26                |
| 55 to 64 years .....                      | 367          | 18         | *32                                 | *9                       | *19                      | *32        | *9                       | *21                | ...       | ...                      | ...                |
| 65 years and older .....                  | 298          | 15         | *21                                 | *7                       | *12                      | *20        | *7                       | *13                | ...       | ...                      | ...                |
| 65 to 74 years .....                      | 204          | 10         | *17                                 | *8                       | *10                      | *17        | *8                       | *11                | ...       | ...                      | ...                |
| 75 and older .....                        | 94           | 5          | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| <b>Ethnicity</b>                          |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| Hispanic .....                            | 360          | 18         | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| Non-Hispanic .....                        | 1,664        | 82         | 164                                 | 10                       | 96                       | 148        | 9                        | 95                 | 48        | 3                        | 97                 |
| <b>Race</b>                               |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| White .....                               | 1,499        | 74         | 140                                 | 9                        | 82                       | 124        | 8                        | 80                 | 44        | 3                        | 90                 |
| African American .....                    | 176          | 9          | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| All others .....                          | 348          | 17         | *25                                 | *7                       | *15                      | *25        | *7                       | *16                | ...       | ...                      | ...                |
| <b>Annual Household Income</b>            |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| Less than \$20,000 .....                  | 254          | 13         | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| \$20,000 to \$29,999 .....                | 178          | 9          | *15                                 | *8                       | *9                       | ...        | ...                      | ...                | ...       | ...                      | ...                |
| \$30,000 to \$39,999 .....                | 211          | 10         | *20                                 | *10                      | *12                      | *20        | *10                      | *13                | ...       | ...                      | ...                |
| \$40,000 to \$49,999 .....                | 120          | 6          | ...                                 | ...                      | ...                      | ...        | ...                      | ...                | ...       | ...                      | ...                |
| \$50,000 to \$74,999 .....                | 405          | 20         | *32                                 | *8                       | *19                      | *30        | *7                       | *19                | ...       | ...                      | ...                |
| \$75,000 to \$99,999 .....                | 163          | 8          | *14                                 | *9                       | *8                       | *13        | *8                       | *9                 | ...       | ...                      | ...                |
| \$100,000 to \$149,999 .....              | 204          | 10         | 44                                  | 21                       | 26                       | 42         | 21                       | 27                 | *14       | *7                       | *28                |
| \$150,000 or more .....                   | 165          | 8          | *21                                 | *13                      | *12                      | *15        | *9                       | *9                 | ...       | ...                      | ...                |
| Not reported .....                        | 324          | 16         | *11                                 | *4                       | *7                       | *11        | *3                       | *7                 | ...       | ...                      | ...                |
| <b>Education</b>                          |              |            |                                     |                          |                          |            |                          |                    |           |                          |                    |
| 11 years or less .....                    | 281          | 14         | *17                                 | *6                       | *10                      | *16        | *6                       | *11                | ...       | ...                      | ...                |
| 12 years .....                            | 663          | 33         | 58                                  | 9                        | 34                       | 55         | 8                        | 35                 | *13       | *2                       | *26                |
| 1 to 3 years of college .....             | 522          | 26         | 41                                  | 8                        | 24                       | 36         | 7                        | 23                 | ...       | ...                      | ...                |
| 4 years or more of college .....          | 557          | 28         | 54                                  | 10                       | 32                       | 48         | 9                        | 31                 | *22       | *4                       | *44                |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses. Percent who participated columns show the percent of each row's population who participated in the activity named by the column (the percent of those living in urban areas who fished, etc.). Remaining percent columns show the percent of each column's participants who are described by the row heading (the percent of anglers who lived in urban areas, etc.).

**Table 16. Summary of Expenditures in Nevada by State Residents and Nonresidents Combined for Fishing and Hunting: 2011**

(Population 16 years old and older)

| Expenditure item                        | Amount<br>(thousands of dollars) | Spenders<br>(thousands) | Average<br>per spender<br>(dollars) <sup>1</sup> | Average<br>per sportsperson<br>(dollars) <sup>1</sup> |
|---|----------------------------------|-------------------------|--|---|
| <b>FISHING AND HUNTING</b>              |                                  |                         |  |   |
| <b>Total</b> .....                      | <b>500,850</b>                   | <b>370</b>              | <b>1,354</b>                                     | <b>2,253</b>  |
| Food and lodging .....                  | 59,491                           | 152                     | 393  | 365   |
| Transportation .....                    | 61,807                           | 162                     | 381  | 371   |
| Other trip costs <sup>2</sup> .....     | 48,703                           | 132                     | 369  | 299   |
| Equipment (fishing, hunting) .....      | 69,187                           | 185                     | 374  | 311   |
| Auxiliary equipment <sup>3</sup> .....  | 28,773                           | 89                      | 325  | 147   |
| Special equipment <sup>4</sup> .....    | *138,082                         | *28                     | *4,975   | *491  |
| Magazines, books, and DVDs .....        | 4,262                            | 48                      | 89   | *23   |
| Membership dues and contributions ..... | *60,138                          | *89                     | *678   | *68   |
| Other <sup>5</sup> .....                | 30,407                           | 146                     | 208  | 178   |
| <b>FISHING</b>                          |                                  |                         |  |   |
| <b>Total</b> .....                      | <b>138,800</b>                   | <b>197</b>              | <b>706</b>                                       | <b>899</b>  |
| Food and lodging .....                  | 34,026                           | 135                     | 252  | 232   |
| Transportation .....                    | 32,323                           | 146                     | 221  | 212   |
| Other trip costs <sup>2</sup> .....     | 16,926                           | 123                     | 138  | 116   |
| Fishing equipment .....                 | 22,165                           | 122                     | 181  | 129   |
| Auxiliary equipment <sup>3</sup> .....  | *5,180                           | *24                     | *215   | *30   |
| Special equipment <sup>4</sup> .....    | ...                              | ...                     | ...  | ...   |
| Magazines, books, and DVDs .....        | *429                             | *10                     | *45  | ...   |
| Membership dues and contributions ..... | ...                              | ...                     | ...  | ...   |
| Other <sup>5</sup> .....                | 5,152                            | 120                     | 43   | 33  |
| <b>HUNTING</b>                          |                                  |                         |  |   |
| <b>Total</b> .....                      | <b>204,137</b>                   | <b>134</b>              | <b>1,520</b>                                     | <b>3,897</b>  |
| Food and lodging .....                  | 25,465                           | 41                      | 616  | 586   |
| Transportation .....                    | 29,484                           | 41                      | 722  | 677   |
| Other trip costs <sup>2</sup> .....     | *31,776                          | *22                     | *1,462   | *732  |
| Hunting equipment .....                 | 45,804                           | 76                      | 607  | *679  |
| Auxiliary equipment <sup>3</sup> .....  | *20,582                          | *58                     | *354   | *388  |
| Special equipment <sup>4</sup> .....    | ...                              | ...                     | ...  | ...   |
| Magazines, books, and DVDs .....        | ...                              | ...                     | ...  | ...   |
| Membership dues and contributions ..... | *9,511                           | *13                     | *754   | *219  |
| Other <sup>5</sup> .....                | 25,255                           | 44                      | 569  | *557  |
| <b>UNSPECIFIED<sup>6</sup></b>          |                                  |                         |  |   |
| <b>Total</b> .....                      | <b>108,070</b>                   | <b>44</b>               | <b>2,463</b>                                     | <b>*388</b>   |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Includes boating costs, equipment rental, guide fees, access fees, heating and cooking fuel, and ice and bait (for fishing only).

<sup>3</sup> Includes sleeping bags, packs, duffel bags, tents, binoculars and field glasses, special fishing and hunting clothing, foul weather gear, boots and waders, maintenance and repair of equipment, processing and taxidermy costs, and electronic equipment such as a GPS device.

<sup>4</sup> Includes big-ticket items bought primarily for hunting and fishing including boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.

<sup>5</sup> Includes land leasing and ownership, licenses, stamps, tags, permits, and plantings (for hunting only).

<sup>6</sup> Respondent could not specify whether expenditure was primarily for either fishing or hunting.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 17. Summary of Fishing Trip and Equipment Expenditures in Nevada by State Residents and Nonresidents Combined by Type of Fishing: 2011**

(Population 16 years old and older)

| Expenditure item                      | Amount<br>(thousands of dollars) | Spenders<br>(thousands) | Average per<br>spender (dollars) <sup>1</sup> | Average per<br>angler (dollars) <sup>1</sup> |
|---------------------------------------|----------------------------------|-------------------------|---|--|
| <b>ALL FISHING</b>                    |                                  |                         |   |  |
| <b>Total</b> .....                    | <b>132,405</b>                   | <b>188</b>              | <b>705</b>                                    | <b>859</b>                                   |
| Food and lodging .....                | 34,026                           | 135                     | 252   | 232  |
| Transportation .....                  | 32,323                           | 146                     | 221   | 212  |
| Other trip costs .....                | 16,926                           | 123                     | 138   | 116  |
| Equipment .....                       | 49,130                           | 133                     | 370   | 299  |
| <b>ALL FRESHWATER</b>                 |                                  |                         |   |  |
| <b>Total</b> .....                    | <b>129,515</b>                   | <b>180</b>              | <b>721</b>                                    | <b>851</b>                                   |
| Food and lodging .....                | 34,026                           | 135                     | 252   | 232  |
| Transportation .....                  | 30,437                           | 142                     | 215   | 208  |
| Other trip costs .....                | 16,926                           | 123                     | 138   | 116  |
| Equipment .....                       | 48,126                           | 127                     | 380   | 296  |
| <b>FRESHWATER, EXCEPT GREAT LAKES</b> |                                  |                         |   |  |
| <b>Total</b> .....                    | <b>129,515</b>                   | <b>180</b>              | <b>721</b>                                    | <b>851</b>                                   |
| Food and lodging .....                | 34,026                           | 135                     | 252   | 232  |
| Transportation .....                  | 30,437                           | 142                     | 215   | 208  |
| Other trip costs .....                | 16,926                           | 123                     | 138   | 116  |
| Equipment .....                       | 48,126                           | 127                     | 380   | 296  |
| <b>GREAT LAKES</b>                    |                                  |                         |   |  |
| <b>Total</b> .....                    | ...                              | ...                     | ...   | ...  |
| Food and lodging .....                | ...                              | ...                     | ...   | ...  |
| Transportation .....                  | ...                              | ...                     | ...   | ...  |
| Other trip costs .....                | ...                              | ...                     | ...   | ...  |
| Equipment .....                       | ...                              | ...                     | ...   | ...  |
| <b>SALTWATER</b>                      |                                  |                         |   |  |
| <b>Total</b> .....                    | ...                              | ...                     | ...   | ...  |
| Food and lodging .....                | ...                              | ...                     | ...   | ...  |
| Transportation .....                  | ...                              | ...                     | ...   | ...  |
| Other trip costs .....                | ...                              | ...                     | ...   | ...  |
| Equipment .....                       | ...                              | ...                     | ...   | ...  |

... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

Note: Detail does not add to total because of multiple responses and nonresponse. See Table 19 for detailed listing of expenditure items.

**Table 18. Summary of Hunting Trip and Equipment Expenditures in Nevada by State Residents and Nonresidents Combined by Type of Hunting: 2011**

(Population 16 years old and older)

| Expenditure item       | Amount<br>(thousands of dollars) | Spenders<br>(thousands) | Average<br>per spender<br>(dollars) <sup>1</sup> | Average per<br>type of hunter<br>(dollars) <sup>1</sup> |
|------------------------|----------------------------------|-------------------------|--|---|
| <b>ALL HUNTING</b>     |                                  |                         |  |   |
| <b>Total</b> .....     | <b>166,662</b>                   | <b>121</b>              | <b>1,372</b>                                     | <b>3,063</b>  |
| Food and lodging ..... | 25,465                           | 41                      | 616  | 586   |
| Transportation .....   | 29,484                           | 41                      | 722  | 677   |
| Other trip costs ..... | *31,776                          | *22                     | *1,462   | *732  |
| Equipment .....        | 79,937                           | 117                     | 681  | 1,068   |
| <b>BIG GAME</b>        |                                  |                         |  |   |
| <b>Total</b> .....     | <b>117,036</b>                   | <b>70</b>               | <b>1,662</b>                                     | <b>*2,013</b>   |
| Food and lodging ..... | *14,735                          | *29                     | *510   | *339  |
| Transportation .....   | *9,597                           | *28                     | *339   | *221  |
| Other trip costs ..... | *29,461                          | *17                     | *1,769   | *678  |
| Equipment .....        | *63,243                          | *65                     | *976   | *775  |
| <b>SMALL GAME</b>      |                                  |                         |  |   |
| <b>Total</b> .....     | <b>*20,553</b>                   | <b>*14</b>              | <b>*1,426</b>                                    | <b>*816</b>   |
| Food and lodging ..... | *8,831                           | *12                     | *762   | *354  |
| Transportation .....   | *8,349                           | *11                     | *765   | *335  |
| Other trip costs ..... | ...                              | ...                     | ...  | ...   |
| Equipment .....        | *2,546                           | *10                     | *248   | ...   |
| <b>MIGRATORY BIRDS</b> |                                  |                         |  |   |
| <b>Total</b> .....     | ...                              | ...                     | ...  | ...   |
| Food and lodging ..... | ...                              | ...                     | ...  | ...   |
| Transportation .....   | ...                              | ...                     | ...  | ...   |
| Other trip costs ..... | ...                              | ...                     | ...  | ...   |
| Equipment .....        | ...                              | ...                     | ...  | ...   |
| <b>OTHER ANIMALS</b>   |                                  |                         |  |   |
| <b>Total</b> .....     | ...                              | ...                     | ...  | ...   |
| Food and lodging ..... | ...                              | ...                     | ...  | ...   |
| Transportation .....   | ...                              | ...                     | ...  | ...   |
| Other trip costs ..... | ...                              | ...                     | ...  | ...   |
| Equipment .....        | ...                              | ...                     | ...  | ...   |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

Note: Detail does not add to total because of multiple responses and nonresponse. See Table 20 for detailed listing of expenditure items.

**Table 19. Expenditures in Nevada by State Residents and Nonresidents Combined for Fishing: 2011**

(Population 16 years old and older)

| Expenditure item  | Expenditures                        |   | Spenders              |                       |  |
|---|-------------------------------------|---|-----------------------|-----------------------|--|
|   | Amount<br>(thousands<br>of dollars) | Average<br>per angler<br>(dollars) <sup>1</sup> | Number<br>(thousands) | Percent of<br>anglers | Average<br>per spender<br>(dollars) <sup>1</sup> |
| <b>Total, all items</b> .....                                     | <b>138,800</b>                      | <b>899</b>                                      | <b>197</b>            | <b>134</b>            | <b>706</b>                                       |
| <b>TRIP-RELATED EXPENDITURES</b>                                  |                                     |   |                       |                       |  |
| <b>Total trip-related</b> .....                                   | <b>83,275</b>                       | <b>560</b>                                      | <b>148</b>            | <b>101</b>            | <b>562</b>                                       |
| <b>Food and lodging, total</b> .....                              | <b>34,026</b>                       | <b>232</b>                                      | <b>135</b>            | <b>92</b>             | <b>252</b>                                       |
| Food .....  | 28,732                              | 196   | 135                   | 92                    | 213  |
| Lodging .....   | *5,293                              | *36   | *30                   | *20                   | *177   |
| Transportation .....  | 32,323                              | 212   | 146                   | 100                   | 221  |
| <b>Other trip costs, total</b> .....                              | <b>16,926</b>                       | <b>116</b>                                      | <b>123</b>            | <b>84</b>             | <b>138</b>                                       |
| Privilege and other fees <sup>2</sup> .....                       | 6,755                               | 46  | 53                    | 36                    | 129  |
| Boating costs <sup>3</sup> .....                                  | *3,044                              | *21   | *24                   | *16                   | *126   |
| Bait .....  | 3,195                               | 22  | 82                    | 56                    | 39   |
| Ice .....   | 2,250                               | 15  | 77                    | 53                    | 29   |
| Heating and cooking fuel .....                                    | *1,682                              | *11   | *29                   | *20                   | *58  |
| <b>EQUIPMENT AND OTHER EXPENDITURES<br/>PRIMARILY FOR FISHING</b> |                                     |   |                       |                       |  |
| <b>Fishing equipment, total</b> .....                             | <b>22,165</b>                       | <b>129</b>                                      | <b>122</b>            | <b>84</b>             | <b>181</b>                                       |
| Reels, rods, and rod-making components .....                      | 9,032                               | 55  | 54                    | 37                    | 169  |
| Lines, hooks, sinkers, etc. ....                                  | 5,362                               | 30  | 96                    | 65                    | 56   |
| Artificial lures and flies .....                                  | 4,428                               | 24  | 81                    | 55                    | 55   |
| Creels, stringers, fish bags, landing nets, and gaff hooks .....  | *765                                | *4  | *27                   | *19                   | *28  |
| Minnow seines, traps, and bait containers .....                   | ...                                 | ...   | ...                   | ...                   | ...  |
| Other fishing equipment <sup>4</sup> .....                        | 2,519                               | 15  | 50                    | 34                    | 51   |
| Auxiliary equipment <sup>5</sup> .....                            | *5,180                              | *30   | *24                   | *16                   | *215   |
| Special equipment <sup>6</sup> .....                              | ...                                 | ...   | ...                   | ...                   | ...  |
| Other fishing costs <sup>7</sup> .....                            | 6,395                               | 40  | 125                   | 85                    | 51   |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.<sup>2</sup> Includes boat or equipment rental and fees for guides, pack trip (party and charter boats, etc.), public land use, and private land use.<sup>3</sup> Includes boat launching, mooring, storage, maintenance, insurance, pumpout fees, and fuel.<sup>4</sup> Includes electronic fishing devices (depth finders, fish finders, etc.), tackle boxes, ice fishing equipment, and other fishing equipment.<sup>5</sup> Includes sleeping bags, packs, duffel bags, tents, binoculars and field glasses, special fishing clothing, foul weather gear, boots and waders, maintenance and repair of equipment, processing and taxidermy costs, and electronic equipment such as a GPS device.<sup>6</sup> Includes big-ticket items bought primarily for fishing including boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.<sup>7</sup> Includes magazines, books, and DVDs, membership dues and contributions, land leasing and ownership, and licenses, stamps, tags, and permits.

Note: Detail does not add to total because of multiple responses and nonresponse. Percent of anglers may be greater than 100 because spenders who did not fish in this state are included.

**Table 20. Expenditures in Nevada by State Residents and Nonresidents Combined for Hunting: 2011**

(Population 16 years old and older)

| Expenditure item  | Expenditures                        |   | Spenders              |                       |  |
|---|-------------------------------------|---|-----------------------|-----------------------|--|
|   | Amount<br>(thousands<br>of dollars) | Average<br>per hunter<br>(dollars) <sup>1</sup> | Number<br>(thousands) | Percent of<br>hunters | Average per<br>spender<br>(dollars) <sup>1</sup> |
| <b>Total, all items</b> .....                                     | <b>204,137</b>                      | <b>3,897</b>                                    | <b>134</b>            | <b>309</b>            | <b>1,520</b>                                     |
| <b>TRIP-RELATED EXPENDITURES</b>                                  |                                     |   |                       |                       |  |
| <b>Total trip-related</b> .....                                   | <b>86,725</b>                       | <b>1,996</b>                                    | <b>44</b>             | <b>100</b>            | <b>1,990</b>                                     |
| <b>Food and lodging, total</b> .....                              | <b>25,465</b>                       | <b>586</b>                                      | <b>41</b>             | <b>95</b>             | <b>616</b>                                       |
| Food .....  | 22,422                              | 516   | 41                    | 95                    | 542  |
| Lodging .....   | ...                                 | ...   | ...                   | ...                   | ...  |
| Transportation .....  | 29,484                              | 677   | 41                    | 94                    | 722  |
| <b>Other trip costs, total</b> .....                              | <b>*31,776</b>                      | <b>*732</b>                                     | <b>*22</b>            | <b>*50</b>            | <b>*1,462</b>                                    |
| Privilege and other fees <sup>2</sup> .....                       | ...                                 | ...   | ...                   | ...                   | ...  |
| Boating costs <sup>3</sup> .....                                  | ...                                 | ...   | ...                   | ...                   | ...  |
| Heating and cooking fuel .....                                    | *965                                | *22   | *13                   | *29                   | *76  |
| <b>EQUIPMENT AND OTHER EXPENDITURES<br/>PRIMARILY FOR HUNTING</b> |                                     |   |                       |                       |  |
| <b>Hunting equipment, total</b> .....                             | <b>45,804</b>                       | <b>*679</b>                                     | <b>76</b>             | <b>174</b>            | <b>607</b>                                       |
| Firearms .....  | ...                                 | ...   | ...                   | ...                   | ...  |
| Ammunition .....  | 4,701                               | *72   | 51                    | 118                   | 91   |
| Other hunting equipment <sup>4</sup> .....                        | *20,808                             | *387  | *37                   | *85                   | *565   |
| Auxiliary equipment <sup>5</sup> .....                            | *20,582                             | *388  | *58                   | *134                  | *354   |
| Special equipment <sup>6</sup> .....                              | ...                                 | ...   | ...                   | ...                   | ...  |
| Other hunting costs <sup>7</sup> .....                            | 37,475                              | *834  | 50                    | 116                   | 746  |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.<sup>2</sup> Includes guide fees, pack trip and package fees, public and private land use access fees, and rental of equipment such as boats and hunting or camping equipment.<sup>3</sup> Boating costs include launching, mooring, storage, maintenance, insurance, pumpout fees, and fuel.<sup>4</sup> Includes telescopic sights, decoys and game calls, handloading equipment and components, hunting dogs and associated costs, hunting knives, bows, arrows, archery equipment, and other hunting equipment.<sup>5</sup> Includes sleeping bags, packs, duffel bags, tents, binoculars and field glasses, special hunting clothing, foul weather gear, boots and waders, maintenance and repair of equipment, processing and taxidermy costs, and electronic equipment such as a GPS device.<sup>6</sup> Includes big-ticket items bought primarily for hunting including boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.<sup>7</sup> Includes magazines, books, and DVDs, membership dues and contributions, land leasing and ownership, and licenses, stamps, tags, and permits.

Note: Detail does not add to total because of multiple responses and nonresponse. Percent of hunters may be greater than 100 because spenders who did not hunt in this state are included.

**Table 21. Trip and Equipment Expenditures in Nevada for Fishing and Hunting by Nevada Residents and Nonresidents: 2011**

(Population 16 years old and older)

| Expenditure item  | Amount<br>(thousands<br>of dollars) | Spenders<br>(thousands) | Average<br>per spender<br>(dollars) <sup>1</sup> | Average per<br>sportsperson<br>(dollars) <sup>1</sup> |
|---|-------------------------------------|-------------------------|--|---|
| <b>STATE RESIDENTS AND NONRESIDENTS</b>                                     |                                     |                         |  |   |
| <b>Trip and equipment expenditures for fishing and hunting, total</b> ..... | <b>406,043</b>                      | <b>286</b>              | <b>1,418</b>                                     | <b>9,351</b>  |
| <b>Trip and equipment expenditures for fishing, total</b> .....             | <b>132,405</b>                      | <b>188</b>              | <b>705</b>                                       | <b>859</b>  |
| Food and lodging .....  | 34,026                              | 135                     | 252  | 232   |
| Transportation .....  | 32,323                              | 146                     | 221  | 212   |
| Boating costs <sup>2</sup> .....  | *3,044                              | *24                     | *126   | *21   |
| Other trip costs <sup>3</sup> .....   | 13,882                              | 121                     | 115  | 95  |
| Equipment .....   | 49,130                              | 133                     | 370  | 299   |
| <b>Trip and equipment expenditures for hunting, total</b> .....             | <b>168,231</b>                      | <b>142</b>              | <b>1,184</b>                                     | <b>3,063</b>  |
| Food and lodging .....  | 25,465                              | 41                      | 616  | 586   |
| Transportation .....  | 29,484                              | 41                      | 722  | 677   |
| Boating costs <sup>2</sup> .....  | ...                                 | ...                     | ...  | ...   |
| Other trip costs <sup>3</sup> .....   | *29,640                             | *19                     | *1,583   | *683  |
| Equipment .....   | 81,505                              | 138                     | 591  | 1,068   |
| <b>Unspecified equipment<sup>4</sup></b> .....                              | <b>*105,407</b>                     | <b>*21</b>              | <b>*5,036</b>                                    | <b>*2,427</b>   |
| <b>STATE RESIDENTS</b>  |                                     |                         |  |   |
| <b>Trip and equipment expenditures for fishing and hunting, total</b> ..... | <b>296,493</b>                      | <b>140</b>              | <b>2,124</b>                                     | <b>7,527</b>  |
| <b>Trip and equipment expenditures for fishing, total</b> .....             | <b>106,343</b>                      | <b>130</b>              | <b>820</b>                                       | <b>887</b>  |
| Food and lodging .....  | 23,250                              | 103                     | 226  | 203   |
| Transportation .....  | 22,604                              | 114                     | 198  | 187   |
| Boating costs <sup>2</sup> .....  | *3,044                              | *24                     | *126   | *27   |
| Other trip costs <sup>3</sup> .....   | 10,055                              | 95                      | 105  | 88  |
| Equipment .....   | 47,390                              | 104                     | 456  | 382   |
| <b>Trip and equipment expenditures for hunting, total</b> .....             | <b>127,422</b>                      | <b>51</b>               | <b>2,510</b>                                     | <b>3,157</b>  |
| Food and lodging .....  | 24,865                              | 38                      | 648  | 631   |
| Transportation .....  | *27,180                             | *37                     | *739   | *688  |
| Boating costs <sup>2</sup> .....  | ...                                 | ...                     | ...  | ...   |
| Other trip costs <sup>3</sup> .....   | *24,800                             | *18                     | *1,401   | *630  |
| Equipment .....   | 48,892                              | 48                      | 1,027  | *1,165  |
| <b>Unspecified equipment<sup>4</sup></b> .....                              | <b>*62,728</b>                      | <b>*18</b>              | <b>*3,508</b>                                    | <b>*1,592</b>   |
| <b>NONRESIDENTS</b>   |                                     |                         |  |   |
| <b>Trip and equipment expenditures for fishing and hunting, total</b> ..... | <b>109,550</b>                      | <b>147</b>              | <b>747</b>                                       | <b>...</b>  |
| <b>Trip and equipment expenditures for fishing, total</b> .....             | <b>*26,062</b>                      | <b>*58</b>              | <b>*448</b>                                      | <b>...</b>  |
| Food and lodging .....  | ...                                 | ...                     | ...  | ...   |
| Transportation .....  | ...                                 | ...                     | ...  | ...   |
| Boating costs <sup>2</sup> .....  | ...                                 | ...                     | ...  | ...   |
| Other trip costs <sup>3</sup> .....   | ...                                 | ...                     | ...  | ...   |
| Equipment .....   | ...                                 | ...                     | ...  | ...   |
| <b>Trip and equipment expenditures for hunting, total</b> .....             | <b>*40,809</b>                      | <b>*91</b>              | <b>*447</b>                                      | <b>...</b>  |
| Food and lodging .....  | ...                                 | ...                     | ...  | ...   |
| Transportation .....  | ...                                 | ...                     | ...  | ...   |
| Boating costs <sup>2</sup> .....  | ...                                 | ...                     | ...  | ...   |
| Other trip costs <sup>3</sup> .....   | ...                                 | ...                     | ...  | ...   |
| Equipment .....   | *32,613                             | *90                     | *361   | ...   |
| <b>Unspecified equipment<sup>4</sup></b> .....                              | <b>...</b>                          | <b>...</b>              | <b>...</b>                                       | <b>...</b>  |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Includes boat launching, mooring, storage, maintenance, insurance, pumpout fees, and fuel.

<sup>3</sup> Includes equipment rental, guide and access fees, ice and bait for fishing, and heating and cooking oil.

<sup>4</sup> Respondent could not specify whether item was for hunting or fishing.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 22. Summary of Nevada Residents' Fishing and Hunting Expenditures Both Inside and Outside Nevada: 2011**

(Population 16 years old and older)

| Expenditure item                        | Amount<br>(thousands<br>of dollars) | Spenders<br>(thousands) | Average<br>per spender<br>(dollars) <sup>1</sup> | Average<br>per sportsperson<br>(dollars) <sup>1</sup> |
|---|-------------------------------------|-------------------------|--|---|
| <b>FISHING AND HUNTING</b>              |                                     |                         |  |   |
| <b>Total</b> .....                      | <b>485,601</b>                      | <b>170</b>              | <b>2,865</b>                                     | <b>2,841</b>  |
| Food and lodging .....                  | 93,116                              | 149                     | 624  | 545   |
| Transportation .....                    | 80,430                              | 160                     | 504  | 471   |
| Other trip costs <sup>2</sup> .....     | 59,979                              | 141                     | 425  | 351   |
| Equipment (fishing, hunting) .....      | 65,890                              | 126                     | 522  | 386   |
| Auxiliary equipment <sup>3</sup> .....  | 28,006                              | 53                      | 527  | 164   |
| Special equipment <sup>4</sup> .....    | *110,774                            | *20                     | *5,512   | *648  |
| Magazines, books, and DVDs .....        | 3,236                               | 34                      | 96   | 19  |
| Membership dues and contributions ..... | 16,807                              | 37                      | 451  | 98  |
| Other <sup>5</sup> .....                | 27,364                              | 131                     | 209  | 160   |
| <b>FISHING</b>                          |                                     |                         |  |   |
| <b>Total</b> .....                      | <b>203,273</b>                      | <b>154</b>              | <b>1,324</b>                                     | <b>1,307</b>  |
| Food and lodging .....                  | 55,316                              | 136                     | 408  | 356   |
| Transportation .....                    | 43,860                              | 145                     | 303  | 282   |
| Other trip costs <sup>2</sup> .....     | 24,207                              | 132                     | 183  | 156   |
| Fishing equipment .....                 | 25,444                              | 109                     | 234  | 164   |
| Auxiliary equipment <sup>3</sup> .....  | *6,869                              | *28                     | *247   | *44   |
| Special equipment <sup>4</sup> .....    | *34,750                             | *10                     | *3,559   | *223  |
| Magazines, books, and DVDs .....        | *429                                | *10                     | *45  | *3  |
| Membership dues and contributions ..... | ...                                 | ...                     | ...  | ...   |
| Other <sup>5</sup> .....                | 11,480                              | 112                     | 103  | 74  |
| <b>HUNTING</b>                          |                                     |                         |  |   |
| <b>Total</b> .....                      | <b>206,443</b>                      | <b>49</b>               | <b>4,202</b>                                     | <b>4,202</b>  |
| Food and lodging .....                  | 37,799                              | 43                      | 886  | 769   |
| Transportation .....                    | 36,570                              | 44                      | 833  | 744   |
| Other trip costs <sup>2</sup> .....     | *35,772                             | *26                     | *1,376   | *728  |
| Hunting equipment .....                 | 38,531                              | 40                      | 964  | 784   |
| Auxiliary equipment <sup>3</sup> .....  | *17,435                             | *19                     | *939   | *355  |
| Special equipment <sup>4</sup> .....    | ...                                 | ...                     | ...  | ...   |
| Magazines, books, and DVDs .....        | ...                                 | ...                     | ...  | ...   |
| Membership dues and contributions ..... | *9,511                              | *13                     | *754   | *194  |
| Other <sup>5</sup> .....                | 15,884                              | 40                      | 400  | 323   |
| <b>UNSPECIFIED<sup>6</sup></b>          |                                     |                         |  |   |
| <b>Total</b> .....                      | <b>69,013</b>                       | <b>34</b>               | <b>2,024</b>                                     | <b>404</b>  |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Includes boating costs, equipment rental, guide fees, access fees, heating and cooking fuel, and ice and bait (for fishing only).

<sup>3</sup> Includes sleeping bags, packs, duffel bags, tents, binoculars and field glasses, special fishing and hunting clothing, foul weather gear, boots and waders, maintenance and repair of equipment, processing and taxidermy costs, and electronic equipment such as a GPS device.

<sup>4</sup> Includes big-ticket items bought primarily for hunting and fishing including boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.

<sup>5</sup> Includes land leasing and ownership, licenses, stamps, tags, and permits, and plantings (for hunting only).

<sup>6</sup> Respondent could not specify whether expenditure was primarily for fishing or hunting.

Note: Detail does not add to total because of multiple responses and nonresponse. See Tables 19–20 for a detailed listing of expenditure items.

**Table 23. In-State and Out-of-State Expenditures by Nevada Residents for Fishing and Hunting: 2011**

(State population 16 years old and older)

| Expenditure item   | Amount<br>(thousands of dollars) | Spenders<br>(thousands) | Average per<br>spender (dollars) <sup>1</sup> | Average per<br>sportsperson<br>(dollars) <sup>1</sup> |
|--|----------------------------------|-------------------------|---|---|
| <b>IN NEVADA</b>   |                                  |                         |   |   |
| <b>Expenditures for fishing and hunting, total</b> .....                         | <b>333,364</b>                   | <b>148</b>              | <b>2,251</b>                                  | <b>2,044</b>  |
| Trip-related expenditures .....  | 137,484                          | 129                     | 1,069   | 843   |
| Equipment (fishing and hunting) .....  | 52,430                           | 113                     | 466   | 322   |
| Auxiliary equipment <sup>2</sup> .....   | 25,101                           | 48                      | 527   | 154   |
| Special equipment <sup>3</sup> .....   | *81,478                          | *16                     | *4,986  | *500  |
| Other <sup>4</sup> .....   | 36,870                           | 124                     | 298   | 226   |
| <b>Expenditures for fishing, total</b> .....                                     | <b>111,664</b>                   | <b>138</b>              | <b>812</b>                                    | <b>762</b>  |
| Trip-related expenditures .....  | 58,954                           | 116                     | 508   | 402   |
| Fishing equipment .....  | 21,062                           | 100                     | 212   | 144   |
| Auxiliary equipment <sup>2</sup> .....   | *4,918                           | *23                     | *209  | *34   |
| Special equipment <sup>3</sup> .....   | ...                              | ...                     | ...   | ...   |
| Other <sup>4</sup> .....   | 5,321                            | 99                      | 54  | 36  |
| <b>Expenditures for hunting, total</b> .....                                     | <b>150,548</b>                   | <b>43</b>               | <b>3,506</b>                                  | <b>3,467</b>  |
| Trip-related expenditures .....  | 78,530                           | 40                      | 1,986   | 1,808   |
| Hunting equipment .....  | 30,254                           | 35                      | 855   | 697   |
| Auxiliary equipment <sup>2</sup> .....   | *17,173                          | *18                     | *959  | *395  |
| Special equipment <sup>3</sup> .....   | ...                              | ...                     | ...   | ...   |
| Other <sup>4</sup> .....   | 24,591                           | 35                      | 703   | 566   |
| <b>Unspecified expenditures for fishing and hunting, total<sup>5</sup></b> ..... | <b>65,115</b>                    | <b>30</b>               | <b>2,142</b>                                  | <b>399</b>  |
| <b>OUT OF STATE</b>  |                                  |                         |   |   |
| <b>Expenditures for fishing and hunting, total</b> .....                         | <b>152,237</b>                   | <b>158</b>              | <b>966</b>                                    | <b>934</b>  |
| Trip-related expenditures .....  | 96,041                           | 84                      | 1,141   | 589   |
| Equipment (fishing and hunting) .....  | *13,460                          | *126                    | *107  | *83   |
| Auxiliary equipment <sup>2</sup> .....   | ...                              | ...                     | ...   | ...   |
| Special equipment <sup>3</sup> .....   | ...                              | ...                     | ...   | ...   |
| Other <sup>4</sup> .....   | 10,537                           | 91                      | 116   | 65  |
| <b>Expenditures for fishing, total</b> .....                                     | <b>91,608</b>                    | <b>139</b>              | <b>658</b>                                    | <b>625</b>  |
| Trip-related expenditures .....  | 64,429                           | 68                      | 952   | 440   |
| Fishing equipment .....  | *4,383                           | *109                    | *40   | *30   |
| Auxiliary equipment <sup>2</sup> .....   | ...                              | ...                     | ...   | ...   |
| Special equipment <sup>3</sup> .....   | ...                              | ...                     | ...   | ...   |
| Other <sup>4</sup> .....   | 7,506                            | 61                      | 123   | 51  |
| <b>Expenditures for hunting, total</b> .....                                     | <b>*59,600</b>                   | <b>*45</b>              | <b>*1,312</b>                                 | <b>*1,373</b>   |
| Trip-related expenditures .....  | *31,611                          | *21                     | *1,475  | *728  |
| Hunting equipment .....  | ...                              | ...                     | ...   | ...   |
| Auxiliary equipment <sup>2</sup> .....   | ...                              | ...                     | ...   | ...   |
| Special equipment <sup>3</sup> .....   | ...                              | ...                     | ...   | ...   |
| Other <sup>4</sup> .....   | *2,727                           | *24                     | *116  | *63   |
| <b>Unspecified expenditures for fishing and hunting, total<sup>5</sup></b> ..... | <b>...</b>                       | <b>...</b>              | <b>...</b>                                    | <b>...</b>  |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Auxiliary equipment includes sleeping bags, packs, duffel bags, tents, binoculars and field glasses, special fishing and hunting clothing, foul weather gear, boots and waders, maintenance and repair of equipment, processing and taxidermy costs, and electronic equipment such as a GPS device.

<sup>3</sup> Special equipment includes boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.

<sup>4</sup> Other equipment includes expenditures for magazines, books, DVDs, membership dues and contributions, land leasing and ownership, licenses, stamps, tags, and permits, and plantings.

<sup>5</sup> Respondent could not specify whether expenditure was primarily for either fishing or hunting.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 24. Wildlife Watching in Nevada by State Residents and Nonresidents Combined: 2011**

(Population 16 years old and older. Numbers in thousands)

| Participants                                    | Number     | Percent    |
|---|------------|------------|
| <b>Total participants</b> .....                 | <b>643</b> | <b>100</b> |
| Away from home .....                            | 287        | 45         |
| Observe wildlife .....                          | 263        | 41         |
| Photograph wildlife .....                       | 197        | 31         |
| Feed wildlife .....                             | *60        | *9         |
| Around the home .....                           | 465        | 72         |
| Observe wildlife .....                          | 323        | 50         |
| Photograph wildlife .....                       | 164        | 26         |
| Feed wildlife .....                             | 332        | 52         |
| Visit parks or natural areas <sup>1</sup> ..... | 88         | 14         |
| Maintain plantings or natural areas .....       | 101        | 16         |

\* Estimate based on a sample size of 10–29.

<sup>1</sup> Includes visits only to parks or natural areas within one mile of home.

Note: Detail does not add to total because of multiple responses.

**Table 25. Participants, Trips, and Days of Participation in Away-From-Home Wildlife Watching in Nevada: 2011**

(Population 16 years old and older. Numbers in thousands)

| Participants, trips, and days of participation | Activity in Nevada                      |            |                 |            |              |             |
|--|---|------------|-----------------|------------|--------------|-------------|
|  | Total, state residents and nonresidents |            | State residents |            | Nonresidents |             |
|  | Number                                  | Percent    | Number          | Percent    | Number       | Percent     |
| <b>PARTICIPANTS</b>                            |   |            |                 |            |              |             |
| <b>Total participants</b> .....                | <b>287</b>                              | <b>100</b> | <b>132</b>      | <b>100</b> | <b>*154</b>  | <b>*100</b> |
| Observe wildlife .....                         | 263                                     | 92         | 124             | 94         | *139         | *90         |
| Photograph wildlife .....                      | 197                                     | 69         | 95              | 72         | *102         | *66         |
| Feed wildlife .....                            | *60                                     | *21        | *60             | *46        | ...          | ...         |
| <b>TRIPS</b>                                   |   |            |                 |            |              |             |
| <b>Total Trips</b> .....                       | <b>1,234</b>                            | <b>100</b> | <b>970</b>      | <b>100</b> | <b>*264</b>  | <b>*100</b> |
| Average days per trip .....                    | 1                                       | (X)        | 1               | (X)        | *2           | (X)         |
| <b>DAYS</b>                                    |   |            |                 |            |              |             |
| <b>Total days</b> .....                        | <b>1,619</b>                            | <b>100</b> | <b>1,177</b>    | <b>100</b> | <b>*442</b>  | <b>*100</b> |
| Observing wildlife .....                       | 1,184                                   | 73         | 908             | 77         | *276         | *63         |
| Photographing wildlife .....                   | 759                                     | 47         | *534            | *45        | ...          | ...         |
| Feeding wildlife .....                         | *197                                    | *12        | *197            | *17        | ...          | ...         |
| <b>Average days per participant</b> .....      | <b>6</b>                                | <b>(X)</b> | <b>9</b>        | <b>(X)</b> | <b>*3</b>    | <b>(X)</b>  |
| Observing wildlife .....                       | 5                                       | (X)        | 7               | (X)        | *2           | (X)         |
| Photographing wildlife .....                   | 4                                       | (X)        | *6              | (X)        | ...          | (X)         |
| Feeding wildlife .....                         | *3                                      | (X)        | *3              | (X)        | ...          | (X)         |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably. (X) Not applicable.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 26. Away-From-Home Wildlife-Watching Participants by Wildlife Observed, Photographed, or Fed in Nevada: 2011**

(Population 16 years old and older. Numbers in thousands)

| Wildlife observed, photographed, or fed                    | Total, state residents and nonresidents |            | State residents |            | Nonresidents |            |
|--|---|------------|-----------------|------------|--------------|------------|
|  | Number                                  | Percent    | Number          | Percent    | Number       | Percent    |
| <b>Total all wildlife</b> .....                            | <b>287</b>                              | <b>100</b> | <b>132</b>      | <b>46</b>  | <b>*154</b>  | <b>*54</b> |
| <b>Total birds</b> .....                                   | <b>262</b>                              | <b>100</b> | <b>119</b>      | <b>45</b>  | <b>*143</b>  | <b>*55</b> |
| Songbirds (cardinals, robins, warblers, etc.) .....        | 113                                     | 100        | *58             | *51        | ...          | ...        |
| Birds of prey (hawks, owls, eagles, etc.) .....            | 99                                      | 100        | 73              | 74         | ...          | ...        |
| Waterfowl (ducks, geese, swans, etc.) .....                | 168                                     | 100        | *80             | *48        | ...          | ...        |
| Other water birds (shorebirds, herons, cranes, etc.) ..... | *46                                     | *100       | *45             | *98        | ...          | ...        |
| Other birds (pheasants, turkeys, road runners, etc.) ..... | *106                                    | *100       | *46             | *43        | ...          | ...        |
| <b>Total land mammals</b> .....                            | <b>180</b>                              | <b>100</b> | <b>*66</b>      | <b>*37</b> | <b>*114</b>  | <b>*63</b> |
| Large land mammals (bears, bison, elk, etc.) .....         | *70                                     | *100       | *47             | *67        | ...          | ...        |
| Small land mammals (prairie dogs, squirrels, etc.) .....   | 157                                     | 100        | *51             | *33        | *106         | *67        |
| Fish (salmon, sharks, etc.) .....                          | *35                                     | *100       | *35             | *100       | ...          | ...        |
| Marine mammals (whales, dolphins, etc.) .....              | ...                                     | ...        | ...             | ...        | ...          | ...        |
| Other wildlife (butterflies, turtles, etc.) .....          | *73                                     | *100       | *60             | *82        | ...          | ...        |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses.

**Table 27. Participation in Wildlife-Watching Activities Around the Home in Nevada: 2011**

(State population 16 years old and older. Numbers in thousands)

| Around the home   | Participants |            |
|---|--------------|------------|
|   | Number       | Percent    |
| <b>Total around-the-home participants</b> .....                 | <b>465</b>   | <b>100</b> |
| Observe wildlife .....  | 323          | 70         |
| Visit parks and natural areas <sup>1</sup> .....                | 88           | 19         |
| Photograph wildlife .....                                       | 164          | 35         |
| Feed wildlife .....   | 332          | 72         |
| Maintain natural areas .....                                    | *43          | *9         |
| Maintain plantings .....  | 93           | 20         |
| <b>Participants Observing Wildlife</b>                          |              |            |
| <b>Total, all wildlife</b> .....                                | <b>323</b>   | <b>100</b> |
| Birds .....   | 296          | 92         |
| Land mammals .....  | 204          | 63         |
| Large mammals .....   | 90           | 28         |
| Small mammals .....   | 194          | 60         |
| Amphibians or reptiles .....                                    | 123          | 38         |
| Insects or spiders .....  | 121          | 37         |
| Fish and other wildlife .....                                   | *40          | *12        |
| <b>Total, 1 day or more</b> .....                               | <b>323</b>   | <b>100</b> |
| 1 to 10 days .....  | *55          | *17        |
| 11 to 50 days .....   | *58          | *18        |
| 51 to 200 days .....  | 127          | 39         |
| 201 days or more .....  | 83           | 26         |
| <b>Participants Visiting Parks or Natural Areas<sup>1</sup></b> |              |            |
| <b>Total, 1 day or more</b> .....                               | <b>88</b>    | <b>100</b> |
| 1 to 5 days .....   | *42          | *48        |
| 6 to 10 days .....  | ...          | ...        |
| 11 days or more .....   | *39          | *44        |
| <b>Participants Photographing Wildlife</b>                      |              |            |
| <b>Total, 1 day or more</b> .....                               | <b>164</b>   | <b>100</b> |
| 1 to 3 days .....   | *45          | *28        |
| 4 to 10 days .....  | *65          | *40        |
| 11 or more days .....   | *54          | *33        |
| <b>Participants Feeding Wildlife</b>                            |              |            |
| <b>Total, all wildlife</b> .....                                | <b>332</b>   | <b>100</b> |
| Wild birds .....  | 323          | 97         |
| Other wildlife .....  | *47          | *14        |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Includes visits only to parks or natural areas within one mile of home.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 28. Nevada Residents Participating in Wildlife Watching in the United States: 2011**

(State population 16 years old and older. Numbers in thousands)

| Participants                                    | Number     | Percent of participants | Percent of population |
|---|------------|-------------------------|-----------------------|
| <b>Total participants</b> .....                 | <b>504</b> | <b>100</b>              | <b>25</b>             |
| Away from home .....                            | 191        | 38                      | 9                     |
| Around the home .....                           | 465        | 92                      | 23                    |
| Observe wildlife .....                          | 323        | 64                      | 16                    |
| Photograph wildlife .....                       | 164        | 33                      | 8                     |
| Feed wild birds or other wildlife .....         | 332        | 66                      | 16                    |
| Maintain plantings or natural areas .....       | 101        | 20                      | 5                     |
| Visit parks or natural areas <sup>1</sup> ..... | 88         | 17                      | 4                     |

<sup>1</sup> Includes visits only to parks or natural areas within one mile of home.

Note: Detail does not add to total because of multiple responses. The column showing percent of participants is based on total participants. The column showing percent of population is based on the state population 16 years old and older, including those who did not participate in wildlife watching.

**Table 29. Wild Bird Observers and Days of Observation in Nevada by State Residents and Nonresidents: 2011**

(Population 16 years old and older. Numbers in thousands)

| Observers and days of observation       | Total, state residents and nonresidents |            | State residents |            | Nonresidents |             |
|---|---|------------|-----------------|------------|--------------|-------------|
|   | Number                                  | Percent    | Number          | Percent    | Number       | Percent     |
| <b>OBSERVERS</b>                        |   |            |                 |            |              |             |
| <b>Total bird observers</b> .....       | <b>447</b>                              | <b>100</b> | <b>320</b>      | <b>100</b> | <b>*127</b>  | <b>*100</b> |
| Around-the-home observers .....         | 296                                     | 66         | 296             | 93         | (X)          | (X)         |
| Away-from-home observers .....          | 238                                     | 53         | 111             | 35         | *127         | *100        |
| <b>DAYS</b>                             |   |            |                 |            |              |             |
| <b>Total days observing birds</b> ..... | <b>41,781</b>                           | <b>100</b> | <b>41,549</b>   | <b>100</b> | <b>*232</b>  | <b>*100</b> |
| Around the home .....                   | 40,690                                  | 97         | 40,690          | 98         | (X)          | (X)         |
| Away from home .....                    | 1,090                                   | 3          | 859             | 2          | *232         | *100        |

\* Estimate based on a sample size of 10–29. (X) Not applicable.

Note: Detail does not add to total because of multiple responses.

**Table 30. Selected Characteristics of Nevada Residents Participating in Wildlife Watching: 2011**

(State population 16 years old and older. Numbers in thousands)

| Characteristic                            | Population   |            | Participants |                          |            |                |                          |            |                 |                          |            |
|---|--------------|------------|--------------|--------------------------|------------|----------------|--------------------------|------------|-----------------|--------------------------|------------|
|   | Number       | Percent    | Total        |                          |            | Away from home |                          |            | Around the home |                          |            |
|   |              |            | Number       | Percent who participated | Percent    | Number         | Percent who participated | Percent    | Number          | Percent who participated | Percent    |
| <b>Total persons</b> .....                | <b>2,024</b> | <b>100</b> | <b>504</b>   | <b>25</b>                | <b>100</b> | <b>191</b>     | <b>9</b>                 | <b>100</b> | <b>465</b>      | <b>23</b>                | <b>100</b> |
| <b>Population Density of Residence</b>    |              |            |              |                          |            |                |                          |            |                 |                          |            |
| Urban .....                               | 1,624        | 80         | 430          | 26                       | 85         | 164            | 10                       | 86         | 398             | 24                       | 86         |
| Rural .....                               | 399          | 20         | 74           | 18                       | 15         | *26            | *7                       | *14        | 67              | 17                       | 14         |
| <b>Population Size of Residence</b>       |              |            |              |                          |            |                |                          |            |                 |                          |            |
| Metropolitan Statistical Area (MSA) ..... | 2,024        | 100        | 504          | 25                       | 100        | 191            | 9                        | 100        | 465             | 23                       | 100        |
| 1,000,000 or more .....                   | 1,449        | 72         | 328          | 23                       | 65         | 136            | 9                        | 71         | 299             | 21                       | 64         |
| 250,000 to 999,999 .....                  | 313          | 15         | 69           | 22                       | 14         | *30            | *10                      | *16        | 63              | 20                       | 14         |
| 50,000 to 249,999 .....                   | 261          | 13         | 107          | 41                       | 21         | *25            | *10                      | *13        | 103             | 39                       | 22         |
| Outside MSA .....                         | ...          | ...        | ...          | ...                      | ...        | ...            | ...                      | ...        | ...             | ...                      | ...        |
| <b>Sex</b>                                |              |            |              |                          |            |                |                          |            |                 |                          |            |
| Male .....                                | 998          | 49         | 244          | 24                       | 48         | 87             | 9                        | 46         | 225             | 23                       | 48         |
| Female .....                              | 1,026        | 51         | 259          | 25                       | 52         | 104            | 10                       | 54         | 239             | 23                       | 52         |
| <b>Age</b>                                |              |            |              |                          |            |                |                          |            |                 |                          |            |
| 16 to 17 years .....                      | 75           | 4          | ...          | ...                      | ...        | ...            | ...                      | ...        | ...             | ...                      | ...        |
| 18 to 24 years .....                      | 190          | 9          | ...          | ...                      | ...        | ...            | ...                      | ...        | ...             | ...                      | ...        |
| 25 to 34 years .....                      | 384          | 19         | *53          | *14                      | *10        | *28            | *7                       | *14        | *35             | *9                       | *8         |
| 35 to 44 years .....                      | 355          | 18         | *89          | *25                      | *18        | *46            | *13                      | *24        | *81             | *23                      | *17        |
| 45 to 54 years .....                      | 354          | 18         | 104          | 29                       | 21         | *24            | *7                       | *13        | 100             | 28                       | 22         |
| 55 to 64 years .....                      | 367          | 18         | 170          | 46                       | 34         | *68            | *18                      | *36        | 164             | 45                       | 35         |
| 65 years and older .....                  | 298          | 15         | 72           | 24                       | 14         | *17            | *6                       | *9         | 72              | 24                       | 16         |
| 65 to 74 years .....                      | 204          | 10         | 56           | 27                       | 11         | ...            | ...                      | ...        | 56              | 27                       | 12         |
| 75 and older .....                        | 94           | 5          | *16          | *17                      | *3         | ...            | ...                      | ...        | *16             | *17                      | *4         |
| <b>Ethnicity</b>                          |              |            |              |                          |            |                |                          |            |                 |                          |            |
| Hispanic .....                            | 360          | 18         | *44          | *12                      | *9         | ...            | ...                      | ...        | *35             | *10                      | *8         |
| Non-Hispanic .....                        | 1,664        | 82         | 460          | 28                       | 91         | 173            | 10                       | 91         | 430             | 26                       | 92         |
| <b>Race</b>                               |              |            |              |                          |            |                |                          |            |                 |                          |            |
| White .....                               | 1,499        | 74         | 433          | 29                       | 86         | 164            | 11                       | 86         | 403             | 27                       | 87         |
| African American .....                    | 176          | 9          | ...          | ...                      | ...        | ...            | ...                      | ...        | ...             | ...                      | ...        |
| All others .....                          | 348          | 17         | *60          | *17                      | *12        | ...            | ...                      | ...        | *54             | *16                      | *12        |
| <b>Annual Household Income</b>            |              |            |              |                          |            |                |                          |            |                 |                          |            |
| Less than \$20,000 .....                  | 254          | 13         | *31          | *12                      | *6         | ...            | ...                      | ...        | *31             | *12                      | *7         |
| \$20,000 to \$29,999 .....                | 178          | 9          | *46          | *26                      | *9         | ...            | ...                      | ...        | ...             | ...                      | ...        |
| \$30,000 to \$39,999 .....                | 211          | 10         | *45          | *21                      | *9         | *29            | *14                      | *15        | *36             | *17                      | *8         |
| \$40,000 to \$49,999 .....                | 120          | 6          | ...          | ...                      | ...        | ...            | ...                      | ...        | ...             | ...                      | ...        |
| \$50,000 to \$74,999 .....                | 405          | 20         | 113          | 28                       | 22         | *56            | *14                      | *29        | 103             | 25                       | 22         |
| \$75,000 to \$99,999 .....                | 163          | 8          | *89          | *54                      | *18        | ...            | ...                      | ...        | *85             | *52                      | *18        |
| \$100,000 to \$149,999 .....              | 204          | 10         | *72          | *35                      | *14        | *37            | *18                      | *19        | *62             | *30                      | *13        |
| \$150,000 or more .....                   | 165          | 8          | *31          | *19                      | *6         | ...            | ...                      | ...        | *28             | *17                      | *6         |
| Not reported .....                        | 324          | 16         | *55          | *17                      | *11        | ...            | ...                      | ...        | *55             | *17                      | *12        |
| <b>Education</b>                          |              |            |              |                          |            |                |                          |            |                 |                          |            |
| 11 years or less .....                    | 281          | 14         | *29          | *10                      | *6         | ...            | ...                      | ...        | ...             | ...                      | ...        |
| 12 years .....                            | 663          | 33         | 154          | 23                       | 30         | *29            | *4                       | *15        | 152             | 23                       | 33         |
| 1 to 3 years of college .....             | 522          | 26         | 122          | 23                       | 24         | *60            | *12                      | *32        | 112             | 22                       | 24         |
| 4 years or more of college .....          | 557          | 28         | 199          | 36                       | 40         | 88             | 16                       | 46         | 180             | 32                       | 39         |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses and nonresponse. Percent who participated columns show the percent of each row's population who participated in the activity named by the column (the percent of those living in urban areas who participated, etc.). Percent columns show the percent of each column's participants who are described by the row heading (the percent of those who participated who live in urban areas, etc.).

**Table 31. Expenditures in Nevada by State Residents and Nonresidents Combined for Wildlife Watching: 2011**

(Population 16 years old and older)

| Expenditure item   | Expenditures (thousands of dollars) | Average per participant (dollars) <sup>1</sup> | Spenders           |  |  |
|--|-------------------------------------|--|--------------------|--|--|
|  |                                     |  | Number (thousands) | Percent of wildlife-watching participants <sup>2</sup> | Average per spender (dollars) <sup>1</sup> |
| <b>Total, all items</b> .....  | <b>682,028</b>                      | <b>1,035</b>                                   | <b>574</b>         | <b>89</b>  | <b>1,188</b>                               |
| <b>TRIP EXPENDITURES</b>   |                                     |  |                    |  |  |
| <b>Total, trip-related</b> .....   | <b>114,366</b>                      | <b>359</b>                                     | <b>287</b>         | <b>100</b>   | <b>399</b>                                 |
| Food and lodging .....   | 62,091                              | 217  | 253                | 88   | 245  |
| Food .....   | 46,099                              | 161  | 253                | 88   | 182  |
| Lodging .....  | *15,992                             | *56  | *106               | *37  | *150                                       |
| Transportation .....   | 47,764                              | 127  | 246                | 86   | 195  |
| Other trip costs <sup>3</sup> .....  | *4,511                              | *16  | *99                | *34  | *46  |
| <b>EQUIPMENT AND OTHER EXPENDITURES</b>  |                                     |  |                    |  |  |
| <b>Total</b> .....   | <b>567,662</b>                      | <b>875</b>                                     | <b>384</b>         | <b>60</b>  | <b>1,479</b>                               |
| <b>Wildlife-watching equipment, total</b> .....  | <b>52,938</b>                       | <b>80</b>                                      | <b>324</b>         | <b>50</b>  | <b>163</b>                                 |
| Binoculars, spotting scopes .....  | ...                                 | ...  | ...                | ...  | ...  |
| Film and photo processing .....  | *5,681                              | *9   | *50                | *8   | *114                                       |
| Cameras, special lenses, video cameras, and other photographic equipment, including memory cards ..... | *17,926                             | *28  | *74                | *12  | *242                                       |
| Day packs, carrying cases, and special clothing .....  | *1,643                              | *2   | *49                | *8   | *34  |
| Bird food .....  | 18,995                              | 29   | 184                | 29   | 103  |
| Food for other wildlife .....  | *2,408                              | *3   | *52                | *8   | *46  |
| Nest boxes, bird houses, bird feeders, and bird baths .....  | *1,960                              | *3   | *80                | *12  | *25  |
| Other equipment (including field guides) .....   | ...                                 | ...  | ...                | ...  | ...  |
| Auxiliary equipment <sup>4</sup> .....   | *3,594                              | ...  | *46                | *7   | *78  |
| Special equipment <sup>5</sup> .....   | ...                                 | ...  | ...                | ...  | ...  |
| Magazines, books, and DVDs .....   | *3,553                              | *3   | *52                | *8   | *68  |
| Membership dues and contributions .....  | *2,317                              | *3   | *42                | *7   | *55  |
| Land leasing and ownership .....   | ...                                 | ...  | ...                | ...  | ...  |
| Plantings .....  | 4,276                               | 7  | 73                 | 11   | 58   |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Percent of wildlife-watching participants column for trip-related expenditures is based on away-from-home participation. For equipment and other expenditures, the percent of wildlife-watching participants column is based on total wildlife-watching participants.

<sup>3</sup> Includes equipment rental and fees for guides, pack trips, public land use and private land use, boat fuel, other boating costs, and heating and cooking fuel.

<sup>4</sup> Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

<sup>5</sup> Includes boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 32. Trip and Equipment Expenditures in Nevada for Wildlife Watching by Nevada Residents and Nonresidents: 2011**

(Population 16 years old and older)

| Expenditure item                        | Amount<br>(thousands of dollars) | Spenders<br>(thousands) | Average<br>per spender<br>(dollars) <sup>1</sup> | Average<br>per participant<br>(dollars) <sup>1</sup> |
|---|----------------------------------|-------------------------|--|--|
| <b>STATE RESIDENTS AND NONRESIDENTS</b> |                                  |                         |  |  |
| <b>Total</b> .....                      | <b>390,252</b>                   | <b>549</b>              | <b>711</b>                                       | <b>585</b>   |
| Food and lodging .....                  | 62,091                           | 253                     | 245  | 217  |
| Transportation .....                    | 47,764                           | 246                     | 195  | 127  |
| Other trip costs <sup>2</sup> .....     | *4,511                           | *99                     | *46  | *16  |
| Equipment <sup>3</sup> .....            | 275,886                          | 347                     | 794  | 425  |
| <b>STATE RESIDENTS</b>                  |                                  |                         |  |  |
| <b>Total</b> .....                      | <b>327,205</b>                   | <b>356</b>              | <b>919</b>                                       | <b>645</b>   |
| Food and lodging .....                  | 18,473                           | 113                     | 164  | 140  |
| Transportation .....                    | 30,947                           | 126                     | 245  | 147  |
| Other trip costs <sup>2</sup> .....     | *4,275                           | *82                     | *52  | *32  |
| Equipment <sup>3</sup> .....            | 273,510                          | 303                     | 902  | 559  |
| <b>NONRESIDENTS</b>                     |                                  |                         |  |  |
| <b>Total</b> .....                      | <b>*63,047</b>                   | <b>*193</b>             | <b>*327</b>                                      | <b>*393</b>  |
| Food and lodging .....                  | *43,618                          | *140                    | *311   | *282   |
| Transportation .....                    | *16,817                          | *119                    | *141   | *109   |
| Other trip costs <sup>2</sup> .....     | ...                              | ...                     | ...  | ...  |
| Equipment <sup>3</sup> .....            | ...                              | ...                     | ...  | ...  |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Includes equipment rental and fees for guides, pack trips, public land use, private land use, boat fuel, other boating costs, and heating and cooking fuel.

<sup>3</sup> Includes wildlife-watching auxiliary and special equipment.

Note: Detail does not add to total because of multiple responses and nonresponse. See Table 33 for detailed listed of expenditure items.

**Table 33. Wildlife-Watching Expenditures Both Inside and Outside Nevada by Nevada Residents: 2011**

(State population 16 years old and older)

| Expenditure item   | Expenditures (thousands of dollars) | Average per participant (dollars) <sup>1</sup> | Spenders           |  |  |
|--|-------------------------------------|--|--------------------|--|--|
|  |                                     |  | Number (thousands) | Percent of wildlife-watching participants <sup>2</sup> | Average per spender (dollars) <sup>1</sup> |
| <b>Total, all items . . . . .</b>  | <b>797,267</b>                      | <b>1,583</b>                                   | <b>399</b>         | <b>79</b>  | <b>1,997</b>                               |
| <b>TRIP EXPENDITURES</b>   |                                     |  |                    |  |  |
| <b>Total, trip-related . . . . .</b>   | <b>173,529</b>                      | <b>909</b>                                     | <b>165</b>         | <b>87</b>  | <b>1,049</b>                               |
| Food and lodging . . . . .   | 85,407                              | 448  | 151                | 79   | 564  |
| Food . . . . .   | 48,256                              | 253  | 151                | 79   | 319  |
| Lodging . . . . .  | *37,151                             | *195   | *51                | *27  | *730                                       |
| Transportation . . . . .   | 70,073                              | 367  | 152                | 80   | 461  |
| Other trip costs <sup>3</sup> . . . . .  | 18,049                              | 95   | 112                | 59   | 161  |
| <b>EQUIPMENT AND OTHER EXPENDITURES</b>  |                                     |  |                    |  |  |
| <b>Total . . . . .</b>   | <b>623,739</b>                      | <b>1,238</b>                                   | <b>359</b>         | <b>71</b>  | <b>1,737</b>                               |
| <b>Wildlife-watching equipment, total. . . . .</b>   | <b>64,711</b>                       | <b>128</b>                                     | <b>319</b>         | <b>63</b>  | <b>203</b>                                 |
| Binoculars, spotting scopes . . . . .  | *5,472                              | *11  | *62                | *12  | *89  |
| Film and photo processing . . . . .  | *6,620                              | *13  | *69                | *14  | *96  |
| Cameras, special lenses, video cameras, and other photographic equipment, including memory cards . . . . . | *20,367                             | *40  | *80                | *16  | *255                                       |
| Day packs, carrying cases, and special clothing . . . . .  | *2,694                              | *5   | *68                | *13  | *40  |
| Bird food . . . . .  | 19,340                              | 38   | 194                | 39   | 99   |
| Food for other wildlife . . . . .  | *6,011                              | *12  | *43                | *9   | *140                                       |
| Nest boxes, bird houses, bird feeders, and bird baths . . . . .  | *3,112                              | *6   | *79                | *16  | *39  |
| Other equipment . . . . .  | *1,096                              | *2   | *36                | *7   | *30  |
| Auxiliary equipment <sup>4</sup> . . . . .   | *2,721                              | *5   | *33                | *7   | *82  |
| Special equipment <sup>5</sup> . . . . .   | *263,531                            | *523   | *24                | *5   | *11,185                                    |
| Magazines, books, and DVDs . . . . .   | *2,941                              | *6   | *48                | *10  | *61  |
| Membership dues and contributions . . . . .  | 3,928                               | 8  | 57                 | 11   | 68   |
| Land leasing and ownership . . . . .   | ...                                 | ...  | ...                | ...  | ...  |
| Plantings . . . . .  | 4,276                               | 8  | 73                 | 15   | 58   |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.

<sup>2</sup> Percent of wildlife-watching participants column for trip-related expenditures is based on away-from-home participation. For equipment and other expenditures, the percent of wildlife-watching participants column is based on total wildlife-watching participants.

<sup>3</sup> Includes equipment rental and fees for guides, pack trips, public land use and private land use, boat fuel, other boating costs, and heating and cooking fuel.

<sup>4</sup> Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

<sup>5</sup> Includes boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 34. In-State and Out-of-State Expenditures by Nevada Residents for Wildlife Watching: 2011**

(State population 16 years old and older)

| Expenditure Item   | Amount<br>(thousands of dollars) | Spenders<br>(thousands) | Average<br>per spender<br>(dollars) <sup>1</sup> | Average<br>per participant<br>(dollars) <sup>1</sup> |
|--|----------------------------------|-------------------------|--|--|
| <b>IN NEVADA</b>   |                                  |                         |  |  |
| <b>Expenditures for wildlife watching, total<sup>2</sup></b> ..... | <b>616,898</b>                   | <b>363</b>              | <b>1,698</b>                                     | <b>1,261</b>   |
| Trip-related expenditures <sup>3</sup> .....                       | 53,695                           | 138                     | 389  | 406  |
| Wildlife-watching equipment <sup>4</sup> .....                     | 52,010                           | 294                     | 177  | 106  |
| Auxiliary equipment <sup>5</sup> .....                             | *2,145                           | *31                     | *68  | ...  |
| Special equipment <sup>6</sup> .....                               | ...                              | ...                     | ...  | ...  |
| Other <sup>7</sup> .....   | 289,694                          | 139                     | 2,079  | 592  |
| <b>OUT OF STATE</b>  |                                  |                         |  |  |
| <b>Expenditures for wildlife watching, total<sup>2</sup></b> ..... | <b>178,810</b>                   | <b>149</b>              | <b>1,200</b>                                     | <b>1,198</b>   |
| Trip-related expenditures <sup>3</sup> .....                       | 119,834                          | 84                      | 1,419  | 1,131  |
| Wildlife-watching equipment <sup>4</sup> .....                     | *11,650                          | *66                     | *176   | *63  |
| Auxiliary equipment <sup>5</sup> .....                             | ...                              | ...                     | ...  | ...  |
| Special equipment <sup>6</sup> .....                               | ...                              | ...                     | ...  | ...  |
| Other <sup>7</sup> .....   | *2,573                           | *29                     | *88  | ...  |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

<sup>1</sup> Average expenditures are annual estimates.<sup>2</sup> Information on trip-related expenditures was collected for away-from-home participants only. Equipment and other expenditures are based on information collected from both away-from-home and around-the-home participants.<sup>3</sup> Includes equipment rental and fees for guides, pack trips, public land use and private land use, boat fuel, other boating costs, and heating and cooking fuel.<sup>4</sup> Includes binoculars, spotting scopes, cameras, special lenses, videocameras, other photography equipment, memory cards, film and photo processing, commercially prepared and packaged wild bird food, other bulk food used to feed wild birds, food used to feed other wildlife, nest boxes, bird houses, feeders, baths, and other wildlife-watching equipment.<sup>5</sup> Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.<sup>6</sup> Includes boats, campers, cabins, trail bikes, dune buggies, 4 x 4 vehicles, ATVs, 4-wheelers, snowmobiles, pickups, vans, travel and tent trailers, motor homes, house trailers, recreational vehicles (RVs) and other special equipment.<sup>7</sup> Includes magazines, books, DVDs, membership dues and contributions, and land leasing and ownership.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 35. Participation of Nevada Resident Wildlife-Watching Participants in Fishing and Hunting: 2011**

(State population 16 years old and older. Numbers in thousands)

| Participants                        | Total wildlife watchers |            | Wildlife-watching activity |            |                 |            |
|-------------------------------------|-------------------------|------------|----------------------------|------------|-----------------|------------|
|                                     |                         |            | Away from home             |            | Around the home |            |
|                                     | Number                  | Percent    | Number                     | Percent    | Number          | Percent    |
| <b>Total participants</b> .....     | <b>504</b>              | <b>100</b> | <b>191</b>                 | <b>100</b> | <b>465</b>      | <b>100</b> |
| Wildlife-watching participants who: |                         |            |                            |            |                 |            |
| Did not fish or hunt .....          | 421                     | 84         | 144                        | 75         | 396             | 85         |
| Fished or hunted .....              | 82                      | 16         | 47                         | 25         | 69              | 15         |
| Fished .....                        | 77                      | 15         | 42                         | 22         | 65              | 14         |
| Hunted .....                        | *21                     | *4         | *17                        | *9         | *16             | *3         |

\* Estimate based on a sample size of 10–29.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 36. Participation of Nevada Resident Sportspersons in Wildlife-Watching Activities: 2011**

(State population 16 years old and older. Numbers in thousands)

| Sportspersons  | Sportspersons |            | Anglers    |            | Hunters   |            |
|--|---------------|------------|------------|------------|-----------|------------|
|  | Number        | Percent    | Number     | Percent    | Number    | Percent    |
| <b>Total sportspersons</b> .....                     | <b>171</b>    | <b>100</b> | <b>156</b> | <b>100</b> | <b>49</b> | <b>100</b> |
| Sportspersons who:                                   |               |            |            |            |           |            |
| Did not engage in wildlife-watching activities ..... | 89            | 52         | 78         | 50         | *28       | *57        |
| Engaged in wildlife-watching activities .....        | 82            | 48         | 77         | 50         | *21       | *43        |
| Away from home .....                                 | 47            | 27         | 42         | 27         | *17       | *34        |
| Around the home .....                                | 69            | 40         | 65         | 42         | *16       | *32        |

\* Estimate based on a sample size of 10–29.

Note: Detail does not add to total because of multiple responses and nonresponse.

**Table 37. Participation in Wildlife-Related Recreation by State Residents Both Inside and Outside Their Resident State: 2011**

(Population 16 years old and older. Numbers in thousands)

| Participant's state of residence      | Population     | Total participants |                       | Sportspersons |                       | Wildlife-watching participants |                       |
|---------------------------------------|----------------|--------------------|-----------------------|---------------|-----------------------|--------------------------------|-----------------------|
|                                       |                | Number             | Percent of population | Number        | Percent of population | Number                         | Percent of population |
| <b>United States, total</b> . . . . . | <b>239,313</b> | <b>89,584</b>      | <b>37</b>             | <b>37,397</b> | <b>16</b>             | <b>71,776</b>                  | <b>30</b>             |
| Alabama . . . . .                     | 3,664          | 1,484              | 40                    | 744           | 20                    | 1,079                          | 29                    |
| Alaska . . . . .                      | 526            | 334                | 64                    | 235           | 45                    | 247                            | 47                    |
| Arizona . . . . .                     | 5,084          | 1,629              | 32                    | 721           | 14                    | 1,281                          | 25                    |
| Arkansas . . . . .                    | 2,238          | 1,102              | 49                    | 572           | 26                    | 828                            | 37                    |
| California . . . . .                  | 28,562         | 7,351              | 26                    | 1,898         | 7                     | 6,475                          | 23                    |
| Colorado . . . . .                    | 3,946          | 1,835              | 47                    | 727           | 18                    | 1,456                          | 37                    |
| Connecticut . . . . .                 | 2,781          | 1,196              | 43                    | 347           | 12                    | 1,093                          | 39                    |
| Delaware . . . . .                    | 699            | 258                | 37                    | 101           | 14                    | 209                            | 30                    |
| Florida . . . . .                     | 14,855         | 4,621              | 31                    | 2,068         | 14                    | 3,598                          | 24                    |
| Georgia . . . . .                     | 7,459          | 2,720              | 36                    | 981           | 13                    | 2,206                          | 30                    |
| Hawaii . . . . .                      | 995            | 222                | 22                    | 108           | 11                    | 161                            | 16                    |
| Idaho . . . . .                       | 1,172          | 638                | 54                    | 331           | 28                    | 464                            | 40                    |
| Illinois . . . . .                    | 9,988          | 3,465              | 35                    | 1,487         | 15                    | 2,784                          | 28                    |
| Indiana . . . . .                     | 4,965          | 2,122              | 43                    | 842           | 17                    | 1,681                          | 34                    |
| Iowa . . . . .                        | 2,363          | 1,086              | 46                    | 586           | 25                    | 780                            | 33                    |
| Kansas . . . . .                      | 2,163          | 1,006              | 47                    | 453           | 21                    | 776                            | 36                    |
| Kentucky . . . . .                    | 3,376          | 1,449              | 43                    | 643           | 19                    | 1,221                          | 36                    |
| Louisiana . . . . .                   | 3,449          | 1,360              | 39                    | 802           | 23                    | 840                            | 24                    |
| Maine . . . . .                       | 1,066          | 519                | 49                    | 233           | 22                    | 401                            | 38                    |
| Maryland . . . . .                    | 4,480          | 1,388              | 31                    | 426           | 9                     | 1,224                          | 27                    |
| Massachusetts . . . . .               | 5,320          | 1,777              | 33                    | 464           | 9                     | 1,530                          | 29                    |
| Michigan . . . . .                    | 7,787          | 3,709              | 48                    | 1,636         | 21                    | 3,067                          | 39                    |
| Minnesota . . . . .                   | 4,133          | 2,093              | 51                    | 1,400         | 34                    | 1,498                          | 36                    |
| Mississippi . . . . .                 | 2,220          | 1,012              | 46                    | 700           | 32                    | 630                            | 28                    |
| Missouri . . . . .                    | 4,667          | 2,096              | 45                    | 1,001         | 21                    | 1,645                          | 35                    |
| Montana . . . . .                     | 777            | 334                | 43                    | 223           | 29                    | 258                            | 33                    |
| Nebraska . . . . .                    | 1,387          | 497                | 36                    | 258           | 19                    | 362                            | 26                    |
| Nevada . . . . .                      | 2,024          | 592                | 29                    | 171           | 8                     | 504                            | 25                    |
| New Hampshire . . . . .               | 1,066          | 470                | 44                    | 168           | 16                    | 388                            | 36                    |
| New Jersey . . . . .                  | 6,852          | 2,047              | 30                    | 709           | 10                    | 1,708                          | 25                    |
| New Mexico . . . . .                  | 1,551          | 589                | 38                    | 252           | 16                    | 486                            | 31                    |
| New York . . . . .                    | 15,503         | 5,090              | 33                    | 1,980         | 13                    | 4,081                          | 26                    |
| North Carolina . . . . .              | 7,264          | 2,708              | 37                    | 1,394         | 19                    | 2,124                          | 29                    |
| North Dakota . . . . .                | (NA)           | (NA)               | (NA)                  | (NA)          | (NA)                  | (NA)                           | (NA)                  |
| Ohio . . . . .                        | 8,999          | 4,078              | 45                    | 1,603         | 18                    | 3,155                          | 35                    |
| Oklahoma . . . . .                    | 2,828          | 1,534              | 54                    | 770           | 27                    | 1,233                          | 44                    |
| Oregon . . . . .                      | 3,061          | 1,387              | 45                    | 444           | 15                    | 1,239                          | 40                    |
| Pennsylvania . . . . .                | 10,036         | 4,036              | 40                    | 1,277         | 13                    | 3,329                          | 33                    |
| Rhode Island . . . . .                | 848            | 307                | 36                    | 94            | 11                    | 270                            | 32                    |
| South Carolina . . . . .              | 3,555          | 1,266              | 36                    | 615           | 17                    | 944                            | 27                    |
| South Dakota . . . . .                | 631            | 361                | 57                    | 190           | 30                    | 267                            | 42                    |
| Tennessee . . . . .                   | 4,945          | 2,116              | 43                    | 923           | 19                    | 1,733                          | 35                    |
| Texas . . . . .                       | 18,681         | 5,888              | 32                    | 2,711         | 15                    | 4,263                          | 23                    |
| Utah . . . . .                        | 2,036          | 779                | 38                    | 406           | 20                    | 558                            | 27                    |
| Vermont . . . . .                     | 512            | 315                | 62                    | 134           | 26                    | 273                            | 53                    |
| Virginia . . . . .                    | 6,136          | 2,565              | 42                    | 842           | 14                    | 2,212                          | 36                    |
| Washington . . . . .                  | 5,293          | 2,307              | 44                    | 968           | 18                    | 1,932                          | 37                    |
| West Virginia . . . . .               | 1,464          | 859                | 59                    | 322           | 22                    | 751                            | 51                    |
| Wisconsin . . . . .                   | 4,460          | 2,481              | 56                    | 1,198         | 27                    | 2,152                          | 48                    |
| Wyoming . . . . .                     | 424            | 249                | 59                    | 145           | 34                    | 182                            | 43                    |

(NA) Not available.

Note: Detail does not add to total because of multiple responses. U.S. totals include responses from participants residing in the District of Columbia, as described in Appendix D.

**Table 38. Anglers and Hunters by Sportsperson's State of Residence: 2011**

(Population 16 years old and older. Numbers in thousands)

| Sportsperson's state of residence     | Population     | Fished or hunted |                       | Fished only   |                       | Hunted only  |                       | Fished and hunted |                       |
|---------------------------------------|----------------|------------------|-----------------------|---------------|-----------------------|--------------|-----------------------|-------------------|-----------------------|
|                                       |                | Number           | Percent of population | Number        | Percent of population | Number       | Percent of population | Number            | Percent of population |
| <b>United States, total</b> . . . . . | <b>239,313</b> | <b>37,397</b>    | <b>16</b>             | <b>23,714</b> | <b>10</b>             | <b>4,285</b> | <b>2</b>              | <b>9,389</b>      | <b>4</b>              |
| Alabama . . . . .                     | 3,664          | 744              | 20                    | 252           | 7                     | *228         | *6                    | 264               | 7                     |
| Alaska . . . . .                      | 526            | 235              | 45                    | 129           | 25                    | *24          | *5                    | 82                | 16                    |
| Arizona . . . . .                     | 5,084          | 721              | 14                    | 462           | 9                     | *135         | *3                    | *124              | *2                    |
| Arkansas . . . . .                    | 2,238          | 572              | 26                    | 252           | 11                    | *105         | *5                    | 214               | 10                    |
| California . . . . .                  | 28,562         | 1,898            | 7                     | 1,431         | 5                     | 198          | 1                     | 269               | 1                     |
| Colorado . . . . .                    | 3,946          | 727              | 18                    | 567           | 14                    | *60          | *2                    | 99                | 3                     |
| Connecticut . . . . .                 | 2,781          | 347              | 12                    | 265           | 10                    | ...          | ...                   | 76                | 3                     |
| Delaware . . . . .                    | 699            | 101              | 14                    | 78            | 11                    | *9           | *1                    | *14               | *2                    |
| Florida . . . . .                     | 14,855         | 2,068            | 14                    | 1,731         | 12                    | *78          | *1                    | 252               | 2                     |
| Georgia . . . . .                     | 7,459          | 981              | 13                    | 672           | 9                     | *138         | *2                    | 171               | 2                     |
| Hawaii . . . . .                      | 995            | 108              | 11                    | 85            | 9                     | ...          | ...                   | *21               | *2                    |
| Idaho . . . . .                       | 1,172          | 331              | 28                    | 169           | 14                    | ...          | ...                   | *119              | *10                   |
| Illinois . . . . .                    | 9,988          | 1,487            | 15                    | 976           | 10                    | *252         | *3                    | 260               | 3                     |
| Indiana . . . . .                     | 4,965          | 842              | 17                    | 465           | 9                     | *56          | *1                    | 322               | 6                     |
| Iowa . . . . .                        | 2,363          | 586              | 25                    | 369           | 16                    | *64          | *3                    | 152               | 6                     |
| Kansas . . . . .                      | 2,163          | 453              | 21                    | 275           | 13                    | *18          | *1                    | 159               | 7                     |
| Kentucky . . . . .                    | 3,376          | 643              | 19                    | 327           | 10                    | *151         | *4                    | 165               | 5                     |
| Louisiana . . . . .                   | 3,449          | 802              | 23                    | 511           | 15                    | *69          | *2                    | 222               | 6                     |
| Maine . . . . .                       | 1,066          | 233              | 22                    | 92            | 9                     | *37          | *3                    | 104               | 10                    |
| Maryland . . . . .                    | 4,480          | 426              | 9                     | 337           | 8                     | ...          | ...                   | *72               | *2                    |
| Massachusetts . . . . .               | 5,320          | 464              | 9                     | 398           | 7                     | ...          | ...                   | 59                | 1                     |
| Michigan . . . . .                    | 7,787          | 1,636            | 21                    | 1,128         | 14                    | *170         | *2                    | 337               | 4                     |
| Minnesota . . . . .                   | 4,133          | 1,400            | 34                    | 925           | 22                    | *71          | *2                    | 403               | 10                    |
| Mississippi . . . . .                 | 2,220          | 700              | 32                    | 263           | 12                    | *96          | *4                    | 340               | 15                    |
| Missouri . . . . .                    | 4,667          | 1,001            | 21                    | 507           | 11                    | 132          | 3                     | 363               | 8                     |
| Montana . . . . .                     | 777            | 223              | 29                    | 114           | 15                    | *30          | *4                    | 78                | 10                    |
| Nebraska . . . . .                    | 1,387          | 258              | 19                    | 143           | 10                    | *61          | *4                    | 54                | 4                     |
| Nevada . . . . .                      | 2,024          | 171              | 8                     | 122           | 6                     | *15          | *1                    | *34               | *2                    |
| New Hampshire . . . . .               | 1,066          | 168              | 16                    | 125           | 12                    | ...          | ...                   | *39               | *4                    |
| New Jersey . . . . .                  | 6,852          | 709              | 10                    | 593           | 9                     | *30          | *(Z)                  | 86                | 1                     |
| New Mexico . . . . .                  | 1,551          | 252              | 16                    | 185           | 12                    | *21          | *1                    | *47               | *3                    |
| New York . . . . .                    | 15,503         | 1,980            | 13                    | 1,241         | 8                     | *172         | *1                    | 567               | 4                     |
| North Carolina . . . . .              | 7,264          | 1,394            | 19                    | 1,077         | 15                    | *88          | *1                    | 230               | 3                     |
| North Dakota . . . . .                | (NA)           | (NA)             | (NA)                  | (NA)          | (NA)                  | (NA)         | (NA)                  | (NA)              | (NA)                  |
| Ohio . . . . .                        | 8,999          | 1,603            | 18                    | 1,075         | 12                    | *168         | *2                    | 360               | 4                     |
| Oklahoma . . . . .                    | 2,828          | 770              | 27                    | 551           | 19                    | ...          | ...                   | *193              | *7                    |
| Oregon . . . . .                      | 3,061          | 444              | 15                    | 263           | 9                     | *58          | *2                    | *123              | *4                    |
| Pennsylvania . . . . .                | 10,036         | 1,277            | 13                    | 574           | 6                     | 269          | 3                     | 434               | 4                     |
| Rhode Island . . . . .                | 848            | 94               | 11                    | 77            | 9                     | ...          | ...                   | 16                | 2                     |
| South Carolina . . . . .              | 3,555          | 615              | 17                    | 377           | 11                    | *42          | *1                    | 196               | 6                     |
| South Dakota . . . . .                | 631            | 190              | 30                    | *58           | *9                    | *27          | *4                    | 106               | 17                    |
| Tennessee . . . . .                   | 4,945          | 923              | 19                    | 637           | 13                    | *91          | *2                    | 196               | 4                     |
| Texas . . . . .                       | 18,681         | 2,711            | 15                    | 1,631         | 9                     | *356         | *2                    | 724               | 4                     |
| Utah . . . . .                        | 2,036          | 406              | 20                    | 245           | 12                    | *55          | *3                    | 106               | 5                     |
| Vermont . . . . .                     | 512            | 134              | 26                    | 64            | 12                    | 30           | 6                     | 41                | 8                     |
| Virginia . . . . .                    | 6,136          | 842              | 14                    | 488           | 8                     | 135          | 2                     | 219               | 4                     |
| Washington . . . . .                  | 5,293          | 968              | 18                    | 749           | 14                    | *54          | *1                    | 165               | 3                     |
| West Virginia . . . . .               | 1,464          | 322              | 22                    | 111           | 8                     | *83          | *6                    | 128               | 9                     |
| Wisconsin . . . . .                   | 4,460          | 1,198            | 27                    | 434           | 10                    | *260         | *6                    | 504               | 11                    |
| Wyoming . . . . .                     | 424            | 145              | 34                    | 69            | 16                    | *30          | *7                    | 46                | 11                    |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably. (NA) Not available. (Z) Less than 0.5 percent.

Note: U.S. totals include responses from participants residing in the District of Columbia, as described in Appendix D.

**Table 39. Participation in Wildlife-Related Recreation in Each State by Both Residents and Nonresidents of the State: 2011**

(Population 16 years old and older. Numbers in thousands)

| State where activity took place   | Total participants |            | Sportspersons |           | Wildlife-watching participants |           |
|-----------------------------------|--------------------|------------|---------------|-----------|--------------------------------|-----------|
|                                   | Number             | Percent    | Number        | Percent   | Number                         | Percent   |
| <b>United States, total</b> ..... | <b>89,584</b>      | <b>100</b> | <b>37,397</b> | <b>42</b> | <b>71,776</b>                  | <b>80</b> |
| Alabama .....                     | 1,710              | 100        | 948           | 55        | 1,114                          | 65        |
| Alaska .....                      | 1,005              | 100        | 563           | 56        | 640                            | 64        |
| Arizona .....                     | 2,088              | 100        | 786           | 38        | 1,566                          | 75        |
| Arkansas .....                    | 1,277              | 100        | 696           | 55        | 852                            | 67        |
| California .....                  | 7,823              | 100        | 1,820         | 23        | 6,733                          | 86        |
| Colorado .....                    | 2,280              | 100        | 919           | 40        | 1,782                          | 78        |
| Connecticut .....                 | 1,327              | 100        | 350           | 26        | 1,178                          | 89        |
| Delaware .....                    | 338                | 100        | 177           | 52        | 243                            | 72        |
| Florida .....                     | 6,258              | 100        | 3,152         | 50        | 4,308                          | 69        |
| Georgia .....                     | 3,009              | 100        | 1,059         | 35        | 2,393                          | 80        |
| Hawaii .....                      | 464                | 100        | 158           | 34        | 358                            | 77        |
| Idaho .....                       | 837                | 100        | 534           | 64        | 558                            | 67        |
| Illinois .....                    | 3,696              | 100        | 1,309         | 35        | 3,019                          | 82        |
| Indiana .....                     | 2,281              | 100        | 867           | 38        | 1,719                          | 75        |
| Iowa .....                        | 1,221              | 100        | 598           | 49        | 837                            | 69        |
| Kansas .....                      | 1,123              | 100        | 527           | 47        | 792                            | 71        |
| Kentucky .....                    | 1,689              | 100        | 713           | 42        | 1,319                          | 78        |
| Louisiana .....                   | 1,641              | 100        | 904           | 55        | 1,010                          | 62        |
| Maine .....                       | 1,098              | 100        | 413           | 38        | 838                            | 76        |
| Maryland .....                    | 1,582              | 100        | 445           | 28        | 1,362                          | 86        |
| Massachusetts .....               | 2,181              | 100        | 538           | 25        | 1,828                          | 84        |
| Michigan .....                    | 4,278              | 100        | 1,938         | 45        | 3,199                          | 75        |
| Minnesota .....                   | 2,473              | 100        | 1,649         | 67        | 1,577                          | 64        |
| Mississippi .....                 | 1,296              | 100        | 782           | 60        | 781                            | 60        |
| Missouri .....                    | 2,478              | 100        | 1,277         | 52        | 1,716                          | 69        |
| Montana .....                     | 558                | 100        | 335           | 60        | 402                            | 72        |
| Nebraska .....                    | 556                | 100        | 289           | 52        | 384                            | 69        |
| Nevada .....                      | 728                | 100        | 163           | 22        | 643                            | 88        |
| New Hampshire .....               | 781                | 100        | 247           | 32        | 630                            | 81        |
| New Jersey .....                  | 2,413              | 100        | 794           | 33        | 1,875                          | 78        |
| New Mexico .....                  | 765                | 100        | 304           | 40        | 566                            | 74        |
| New York .....                    | 5,473              | 100        | 2,109         | 39        | 4,239                          | 77        |
| North Carolina .....              | 3,360              | 100        | 1,631         | 49        | 2,432                          | 72        |
| North Dakota .....                | (NA)               | (NA)       | (NA)          | (NA)      | (NA)                           | (NA)      |
| Ohio .....                        | 4,237              | 100        | 1,561         | 37        | 3,197                          | 75        |
| Oklahoma .....                    | 1,670              | 100        | 779           | 47        | 1,263                          | 76        |
| Oregon .....                      | 1,752              | 100        | 703           | 40        | 1,440                          | 82        |
| Pennsylvania .....                | 4,504              | 100        | 1,424         | 32        | 3,598                          | 80        |
| Rhode Island .....                | 398                | 100        | 179           | 45        | 308                            | 77        |
| South Carolina .....              | 1,665              | 100        | 847           | 51        | 1,103                          | 66        |
| South Dakota .....                | 640                | 100        | 430           | 67        | 384                            | 60        |
| Tennessee .....                   | 2,554              | 100        | 994           | 39        | 1,955                          | 77        |
| Texas .....                       | 6,304              | 100        | 2,713         | 43        | 4,376                          | 69        |
| Utah .....                        | 1,005              | 100        | 493           | 49        | 717                            | 71        |
| Vermont .....                     | 507                | 100        | 254           | 50        | 370                            | 73        |
| Virginia .....                    | 3,226              | 100        | 1,068         | 33        | 2,509                          | 78        |
| Washington .....                  | 2,717              | 100        | 1,005         | 37        | 2,168                          | 80        |
| West Virginia .....               | 1,170              | 100        | 447           | 38        | 850                            | 73        |
| Wisconsin .....                   | 3,380              | 100        | 1,554         | 46        | 2,359                          | 70        |
| Wyoming .....                     | 771                | 100        | 390           | 51        | 518                            | 67        |

\* Estimate based on a sample size of 10–29. (NA) Not available.

Note: Detail does not add to total because of multiple responses. U.S. totals include responses from participants residing in the District of Columbia, as described in Appendix D.

**Table 40. Anglers and Hunters by State Where Fishing or Hunting Took Place: 2011**

(Population 16 years old and older. Numbers in thousands)

| State where fishing or hunting took place | Anglers                                   |            |                 |           |              |           | Hunters                                   |            |                 |           |              |           |
|---|---|------------|-----------------|-----------|--------------|-----------|---|------------|-----------------|-----------|--------------|-----------|
|   | Total anglers, residents and nonresidents |            | State residents |           | Nonresidents |           | Total hunters, residents and nonresidents |            | State residents |           | Nonresidents |           |
|   | Number                                    | Percent    | Number          | Percent   | Number       | Percent   | Number                                    | Percent    | Number          | Percent   | Number       | Percent   |
| <b>United States, total . . . . .</b>     | <b>33,112</b>                             | <b>100</b> | <b>30,037</b>   | <b>91</b> | <b>6,964</b> | <b>21</b> | <b>13,674</b>                             | <b>100</b> | <b>12,890</b>   | <b>94</b> | <b>1,942</b> | <b>14</b> |
| Alabama . . . . .                         | 683                                       | 100        | 473             | 69        | 210          | 31        | 535                                       | 100        | 492             | 92        | *44          | *8        |
| Alaska . . . . .                          | 538                                       | 100        | 211             | 39        | 327          | 61        | 125                                       | 100        | 104             | 83        | ...          | ...       |
| Arizona . . . . .                         | 637                                       | 100        | 533             | 84        | *104         | *16       | 269                                       | 100        | 225             | 83        | *45          | *17       |
| Arkansas . . . . .                        | 555                                       | 100        | 458             | 83        | *97          | *17       | 363                                       | 100        | 316             | 87        | ...          | ...       |
| California . . . . .                      | 1,674                                     | 100        | 1,576           | 94        | 98           | 6         | 394                                       | 100        | 377             | 96        | ...          | ...       |
| Colorado . . . . .                        | 767                                       | 100        | 593             | 77        | 175          | 23        | 259                                       | 100        | 144             | 55        | *115         | *45       |
| Connecticut . . . . .                     | 342                                       | 100        | 277             | 81        | *65          | *19       | 50  | 100        | 46              | 93        | ...          | ...       |
| Delaware . . . . .                        | 166                                       | 100        | 59              | 36        | *107         | *64       | 23  | 100        | 19              | 84        | ...          | ...       |
| Florida . . . . .                         | 3,092                                     | 100        | 1,895           | 61        | 1,197        | 39        | 242                                       | 100        | 215             | 89        | ...          | ...       |
| Georgia . . . . .                         | 829                                       | 100        | 764             | 92        | *65          | *8        | 392                                       | 100        | 293             | 75        | *98          | *25       |
| Hawaii . . . . .                          | 157                                       | 100        | 104             | 66        | ...          | ...       | *23                                       | *100       | *23             | *100      | ...          | ...       |
| Idaho . . . . .                           | 447                                       | 100        | 238             | 53        | 208          | 47        | 246                                       | 100        | *162            | *66       | *85          | *34       |
| Illinois . . . . .                        | 1,044                                     | 100        | 955             | 92        | *88          | *8        | 512                                       | 100        | 459             | 90        | ...          | ...       |
| Indiana . . . . .                         | 801                                       | 100        | 720             | 90        | *81          | *10       | 392                                       | 100        | 377             | 96        | ...          | ...       |
| Iowa . . . . .                            | 473                                       | 100        | 416             | 88        | *58          | *12       | 253                                       | 100        | 200             | 79        | ...          | ...       |
| Kansas . . . . .                          | 400                                       | 100        | 372             | 93        | *28          | *7        | 283                                       | 100        | 170             | 60        | *112         | *40       |
| Kentucky . . . . .                        | 554                                       | 100        | 451             | 81        | *103         | *19       | 347                                       | 100        | 316             | 91        | ...          | ...       |
| Louisiana . . . . .                       | 825                                       | 100        | 700             | 85        | *125         | *15       | 277                                       | 100        | 253             | 91        | ...          | ...       |
| Maine . . . . .                           | 341                                       | 100        | 193             | 56        | 149          | 44        | 181                                       | 100        | 141             | 78        | *40          | *22       |
| Maryland . . . . .                        | 426                                       | 100        | 347             | 81        | 80           | 19        | 88  | 100        | *69             | *78       | *19          | *22       |
| Massachusetts . . . . .                   | 532                                       | 100        | 377             | 71        | 155          | 29        | 56  | 100        | 52              | 93        | ...          | ...       |
| Michigan . . . . .                        | 1,744                                     | 100        | 1,397           | 80        | 347          | 20        | 529                                       | 100        | 501             | 95        | ...          | ...       |
| Minnesota . . . . .                       | 1,562                                     | 100        | 1,303           | 83        | 259          | 17        | 477                                       | 100        | 457             | 96        | ...          | ...       |
| Mississippi . . . . .                     | 651                                       | 100        | 600             | 92        | ...          | ...       | 483                                       | 100        | 436             | 90        | ...          | ...       |
| Missouri . . . . .                        | 1,071                                     | 100        | 827             | 77        | 244          | 23        | 576                                       | 100        | 477             | 83        | *100         | *17       |
| Montana . . . . .                         | 267                                       | 100        | 185             | 69        | 82           | 31        | 150                                       | 100        | 104             | 70        | *46          | *30       |
| Nebraska . . . . .                        | 207                                       | 100        | 177             | 85        | ...          | ...       | 128                                       | 100        | 110             | 86        | ...          | ...       |
| Nevada . . . . .                          | 147                                       | 100        | 114             | 78        | ...          | ...       | 43  | 100        | 39              | 91        | ...          | ...       |
| New Hampshire . . . . .                   | 228                                       | 100        | 153             | 67        | 75           | 33        | 56  | 100        | 42              | 74        | *14          | *26       |
| New Jersey . . . . .                      | 766                                       | 100        | 509             | 66        | *257         | *34       | 94  | 100        | 93              | 99        | ...          | ...       |
| New Mexico . . . . .                      | 278                                       | 100        | 213             | 77        | *65          | *23       | 69  | 100        | 64              | 93        | ...          | ...       |
| New York . . . . .                        | 1,882                                     | 100        | 1,585           | 84        | 297          | 16        | 823                                       | 100        | 739             | 90        | *84          | *10       |
| North Carolina . . . . .                  | 1,525                                     | 100        | 1,196           | 78        | 329          | 22        | 335                                       | 100        | 259             | 77        | *76          | *23       |
| North Dakota . . . . .                    | (NA)                                      | (NA)       | (NA)            | (NA)      | (NA)         | (NA)      | (NA)                                      | (NA)       | (NA)            | (NA)      | (NA)         | (NA)      |
| Ohio . . . . .                            | 1,342                                     | 100        | 1,257           | 94        | *85          | *6        | 553                                       | 100        | 516             | 93        | *37          | *7        |
| Oklahoma . . . . .                        | 729                                       | 100        | 680             | 93        | *49          | *7        | 244                                       | 100        | 219             | 90        | ...          | ...       |
| Oregon . . . . .                          | 638                                       | 100        | 373             | 59        | 264          | 41        | 196                                       | 100        | 181             | 92        | ...          | ...       |
| Pennsylvania . . . . .                    | 1,101                                     | 100        | 891             | 81        | 210          | 19        | 775                                       | 100        | 699             | 90        | *76          | *10       |
| Rhode Island . . . . .                    | 175                                       | 100        | 79              | 45        | 96           | 55        | 20  | 100        | 15              | 77        | ...          | ...       |
| South Carolina . . . . .                  | 744                                       | 100        | 561             | 75        | *182         | *25       | 254                                       | 100        | 180             | 71        | *74          | *29       |
| South Dakota . . . . .                    | 268                                       | 100        | 156             | 58        | *112         | *42       | 270                                       | 100        | 127             | 47        | 144          | 53        |
| Tennessee . . . . .                       | 826                                       | 100        | 709             | 86        | *117         | *14       | 375                                       | 100        | 276             | 74        | ...          | ...       |
| Texas . . . . .                           | 2,246                                     | 100        | 2,133           | 95        | *114         | *5        | 1,147                                     | 100        | 1,080           | 94        | *67          | *6        |
| Utah . . . . .                            | 414                                       | 100        | 343             | 83        | *70          | *17       | 193                                       | 100        | 158             | 82        | *35          | *18       |
| Vermont . . . . .                         | 207                                       | 100        | 95              | 46        | 112          | 54        | 90  | 100        | 66              | 74        | ...          | ...       |
| Virginia . . . . .                        | 833                                       | 100        | 649             | 78        | 184          | 22        | 432                                       | 100        | 326             | 75        | *106         | *25       |
| Washington . . . . .                      | 938                                       | 100        | 835             | 89        | *103         | *11       | 219                                       | 100        | 200             | 92        | ...          | ...       |
| West Virginia . . . . .                   | 305                                       | 100        | 222             | 73        | *84          | *27       | 247                                       | 100        | 184             | 74        | ...          | ...       |
| Wisconsin . . . . .                       | 1,247                                     | 100        | 910             | 73        | 337          | 27        | 895                                       | 100        | 763             | 85        | *131         | *15       |
| Wyoming . . . . .                         | 303                                       | 100        | 110             | 36        | *193         | *64       | 140                                       | 100        | 76              | 54        | *64          | *46       |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably. (NA) Not available.

Note: For the U.S. row, detail does not add to total because of multiple responses. U.S. totals include responses from participants residing in the District of Columbia, as described in Appendix D.





*Appendix A*

# Appendix A.

## Definitions

**Annual household income**—Total 2011 income of household members before taxes and other deductions.

**Around-the-home wildlife watching**—Activity within 1 mile of home with one of six primary purposes: (1) taking special interest in or trying to identify birds or other wildlife; (2) photographing wildlife; (3) feeding birds or other wildlife; (4) maintaining natural areas of at least one-quarter acre for the benefit of wildlife; (5) maintaining plantings (such as shrubs and agricultural crops) for the benefit of wildlife; and (6) visiting parks and natural areas to observe, photograph, or feed wildlife.

**Auxiliary equipment**—Equipment owned primarily for wildlife-associated recreation. For the sportspersons section, these include sleeping bags, packs, duffel bags, tents, binoculars and field glasses, special fishing and hunting clothing, foul weather gear, boots and waders, maintenance and repair of equipment, and processing and taxidermy costs. For the wildlife-watching section, these include tents, tarps, frame packs, backpacking and other camping equipment, and blinds. For both sportspersons and wildlife watchers, it also includes electronic auxiliary equipment such as Global Positioning Systems.

**Away-from-home wildlife watching**—Trips or outings at least 1 mile from home for the primary purpose of observing, photographing, or feeding wildlife. Trips to zoos, circuses, aquariums, and museums are not included.

**Big game**—Bear, deer, elk, moose, wild turkey, and similar large animals that are hunted.

### Census Divisions

#### East North Central

Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin

#### East South Central

Alabama  
Kentucky  
Mississippi  
Tennessee

#### Middle Atlantic

New Jersey  
New York  
Pennsylvania

#### Mountain

Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming

#### New England

Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont

#### Pacific

Alaska  
California  
Hawaii  
Oregon  
Washington

#### South Atlantic

Delaware  
District of Columbia  
Florida

Georgia  
Maryland  
North Carolina  
South Carolina  
Virginia  
West Virginia

#### West North Central

Kansas  
Iowa  
Minnesota  
Missouri  
Nebraska  
North Dakota  
South Dakota

#### West South Central

Arkansas  
Louisiana  
Oklahoma  
Texas

**Day**—Any part of a day spent participating in a given activity. For example, if someone hunted two hours one day and three hours another day, it would be reported as two days of hunting. If someone hunted two hours in the morning and three hours in the afternoon of the same day, it would be considered one day of hunting.

**Education**—The highest completed grade of school or year of college.

**Expenditures**—Money spent in 2011 for wildlife-related recreation trips in the United States, wildlife-related recreational equipment purchased in the United States, and other items. The “other items” were books, magazines, and DVDs; membership dues and contributions, land leasing or owning; hunting and fishing licenses; and plantings, all for the purpose of wildlife-related recreation. Expenditures included both money spent by participants for themselves and the value of gifts they received.

**Fishing**—The sport of catching or attempting to catch fish with a hook and line, bow and arrow, or spear; it also includes catching or gathering shellfish (clams, crabs, etc.); and the noncommercial seining or netting of fish, unless the fish are for use as bait. For example, seining for smelt is fishing, but seining for bait minnows is not included as fishing.

**Fishing equipment**—Items owned primarily for fishing:

Rods, reels, poles, and rodmaking components

Lines and leaders

Artificial lures, flies, baits, and dressing for flies or lines

Hooks, sinkers, swivels, and other items attached to a line, except lures and baits

Tackle boxes

Creels, stringers, fish bags, landing nets, and gaff hooks

Minnow traps, seines, and bait containers

Depth finders, fish finders, and other electronic fishing devices

Ice fishing equipment

Other fishing equipment

**Freshwater**—Reservoirs, lakes, ponds, and the nontidal portions of rivers and streams.

**Great Lakes fishing**—Fishing in Lakes Superior, Michigan, Huron, St. Clair, Erie, and Ontario, their connecting waters such as the St. Mary's River system, Detroit River, St. Clair River, and the Niagara River, and the St. Lawrence River south of the bridge at Cornwall, New York. Great Lakes fishing includes fishing in tributaries of the Great Lakes for smelt, steelhead, and salmon.

**Home**—The starting point of a wildlife-related recreational trip. It may be a permanent residence or a temporary or seasonal residence such as a cabin.

**Hunting**—The sport of shooting or attempting to shoot wildlife with firearms or archery equipment.

**Hunting equipment**—Items owned primarily for hunting:

Rifles, shotguns, muzzleloaders, and handguns

Archery equipment

Telescopic sights

Decoys and game calls

Ammunition

Hand loading equipment

Hunting dogs and associated costs

Other hunting equipment

**Land leasing and owning**—Leasing or owning land either singly or in cooperation with others for the primary purpose of fishing, hunting, or wildlife watching on it.

**Maintain natural areas**—To set aside 1/4 acre or more of natural environment, such as wood lots or open fields, for the primary purpose of benefiting wildlife.

**Maintain plantings**—To introduce or encourage the growth of food and cover plants for the primary purpose of benefiting wildlife.

**Metropolitan Statistical Area (MSA)**—A Metropolitan Statistical Area is a grouping of one or more counties or equivalent entities that contain at least one urbanized area of 50,000 or more inhabitants. The "Outside MSA" classification include census-defined Micropolitan Statistical Areas (or Micro areas). A Micro area is defined as a grouping of one or more counties or equivalent entities that contain at least one urban cluster of at least 10,000 but less than 50,000 inhabitants. Refer to <[www.census.gov/population/metro/about/](http://www.census.gov/population/metro/about/)>, for a more detailed definition of the Metropolitan Statistical Area.

**Migratory birds**—Birds that regularly migrate from one region or climate to another such as ducks, geese, and doves and other birds that may be hunted.

**Multiple responses**—The term used to reflect the fact that individuals or their characteristics fall into more than one reporting category. An example of a big game hunter who hunted for deer and elk demonstrates the effect of multiple responses. In this case, adding the number of deer hunters (one) and elk hunters (one) would overstate the number of big game hunters (one) because deer and elk hunters are not

mutually exclusive categories. In contrast, for example, total participants is the sum of male and female participants, because "male" and "female" are mutually exclusive categories.

**Nonresidents**—Individuals who do not live in the State being reported. For example, a person living in Texas who watches whales in California is a nonresidential wildlife-watcher in California.

**Nonresponse**—A term used to reflect the fact that some Survey respondents provide incomplete sets of information. For example, a Survey respondent may have been unable to identify the primary type of hunting for which a gun was bought. Total hunting expenditure estimates will include the gun purchase, but it will not appear as spending for big game or any other type of hunting. Nonresponses result in reported totals that are greater than the sum of their parts.

**Observe**—To take special interest in or try to identify birds, fish or other wildlife.

**Other animals**—Coyotes, crows, foxes, groundhogs, prairie dogs, raccoons, alligators, and similar animals that can be legally hunted and are not classified as big game, small game, or migratory birds. They may be classified as unprotected or predatory animals by the State in which they are hunted. Feral pigs are classified as "other animals" in all States except Hawaii, where they are considered big game.

**Participants**—Individuals who engage in fishing, hunting, or a wildlife-watching activity. Unless otherwise stated, a person has to have hunted, fished, or wildlife watched in 2011 to be considered a participant.

**Plantings**—See "Maintain plantings."

**Primary purpose**—The principal motivation for an activity, trip, or expenditure.

**Private land**—Land owned by a business, nongovernmental organization, private individual, or a group of individuals such as an association or club.

**Public land**—Land that is owned by local governments (such as county parks and municipal watersheds),

State governments (such as State parks and wildlife management areas), or the federal government (such as National Forests, Recreational Areas, and Wildlife Refuges).

**Residents**—Individuals who lived in the State being reported. For example, a person who lives in California and watches whales in California is a residential wildlife watcher in California.

**Rural**—All territory, population, and housing units located outside of urbanized areas and urban clusters, as determined by the U.S. Census Bureau.

**Saltwater**—Oceans, tidal bays and sounds, and the tidal portions of rivers and streams.

**Screening interviews**—The first Survey contact with a sample household. Screening interviews are conducted with a household representative to identify respondents who are eligible for in-depth interviews. Screening interviews gather data such as age and sex about individuals in the households. Further information on screening interviews is available on page vii in the “Survey Background and Method” section of this report.

**Small game**—Grouse, pheasants, quail, rabbits, squirrels, and similar small animals for which States have small game seasons and bag limits.

**Special equipment**—Big-ticket equipment items that are owned primarily for wildlife-related recreation:

Bass boats

Other types of motor boats

Canoes and other types of nonmotor boats

Boat motors, boat trailer/hitches, and other boat accessories

Pickups, campers, vans, travel or tent trailers, motor homes, house trailers, recreational vehicles (RVs)

Cabins

Off-the-road vehicles such as trail bikes, all terrain vehicles (ATVs), dune buggies, four-wheelers, 4x4 vehicles, and snowmobiles

Other special equipment

**Spenders**—Individuals who spent money on fishing, hunting, or wildlife-watching activities or equipment and also participated in those activities.

**Sportspersons**—Individuals who engaged in fishing, hunting, or both.

**Trip**—An outing involving fishing, hunting, or wildlife watching. A trip may begin from an individual’s principal residence or from another place, such as a vacation home or the home of a relative. A trip may last an hour, a day, or many days.

**Type of fishing**—There are three types of fishing: (1) freshwater except Great Lakes, (2) Great Lakes, and (3) saltwater.

**Type of hunting**—There are four types of hunting: (1) big game, (2) small game, (3) migratory bird, and (4) other animal.

**Unspecified expenditure**—An item that was purchased for use in both fishing and hunting, rather than primarily one or the other. Auxiliary equipment, special equipment, magazines and books, and membership dues and contributions are the items for which a purchase could be categorized as “unspecified.”

**Urban**—All territory, population, and housing units located within boundaries that encompass densely settled territory, consisting of core census block groups or blocks that have a population density of at least 1,000 people per square mile and surrounding census blocks that have an overall density of at least 500 people per square mile. Under certain conditions, less densely settled territory may be included, as determined by the Census Bureau.

**Visit parks or natural areas**—A visit to places accessible to the public and that are owned or leased by a governmental entity, nongovernmental organization, business, or a private individual or group such as an association or club.

**Wildlife**—Animals such as birds, fish, insects, mammals, amphibians, and reptiles that are living in natural or wild environments. Wildlife does not include animals living in aquariums, zoos, and other artificial surroundings or domestic animals such as farm animals or pets.

**Wildlife observed, photographed, or fed**—Examples of species that wildlife watchers observe, photograph, and/or feed are (1) *Wild birds*—songbirds such as cardinals, robins, warblers, jays, buntings, and sparrows; birds of prey such as hawks, owls, eagles, and falcons; waterfowl such as ducks, geese, and swans; other water birds such as shorebirds, herons, pelicans, and cranes; and other birds such as pheasants, turkeys, road runners, and woodpeckers; (2) *Land mammals*—large land mammals such as bears, bison, deer, moose, and elk; small land mammals such as squirrels, foxes, prairie dogs, and rabbits; (3) *Fish* such as salmon, sharks, and groupers; (4) *Marine mammals* such as whales, dolphins, and manatees; and (5) *Other wildlife* such as butterflies, turtles, spiders, and snakes.

**Wildlife-related recreation**—Recreational fishing, hunting, and wildlife watching.

**Wildlife watching**—There are six types of wildlife watching: (1) closely observing, (2) photographing, (3) feeding, (4) visiting parks or natural areas, (5) maintaining plantings, and (6) maintaining natural areas. These activities must be the primary purpose of the trip or the around-the-home undertaking.

**Wildlife-watching equipment**—Items owned primarily for observing, photographing, or feeding wildlife:

Binoculars and spotting scopes

Cameras, video cameras, special lenses, and other photographic equipment

Film and developing

Commercially prepared and packaged wild bird food

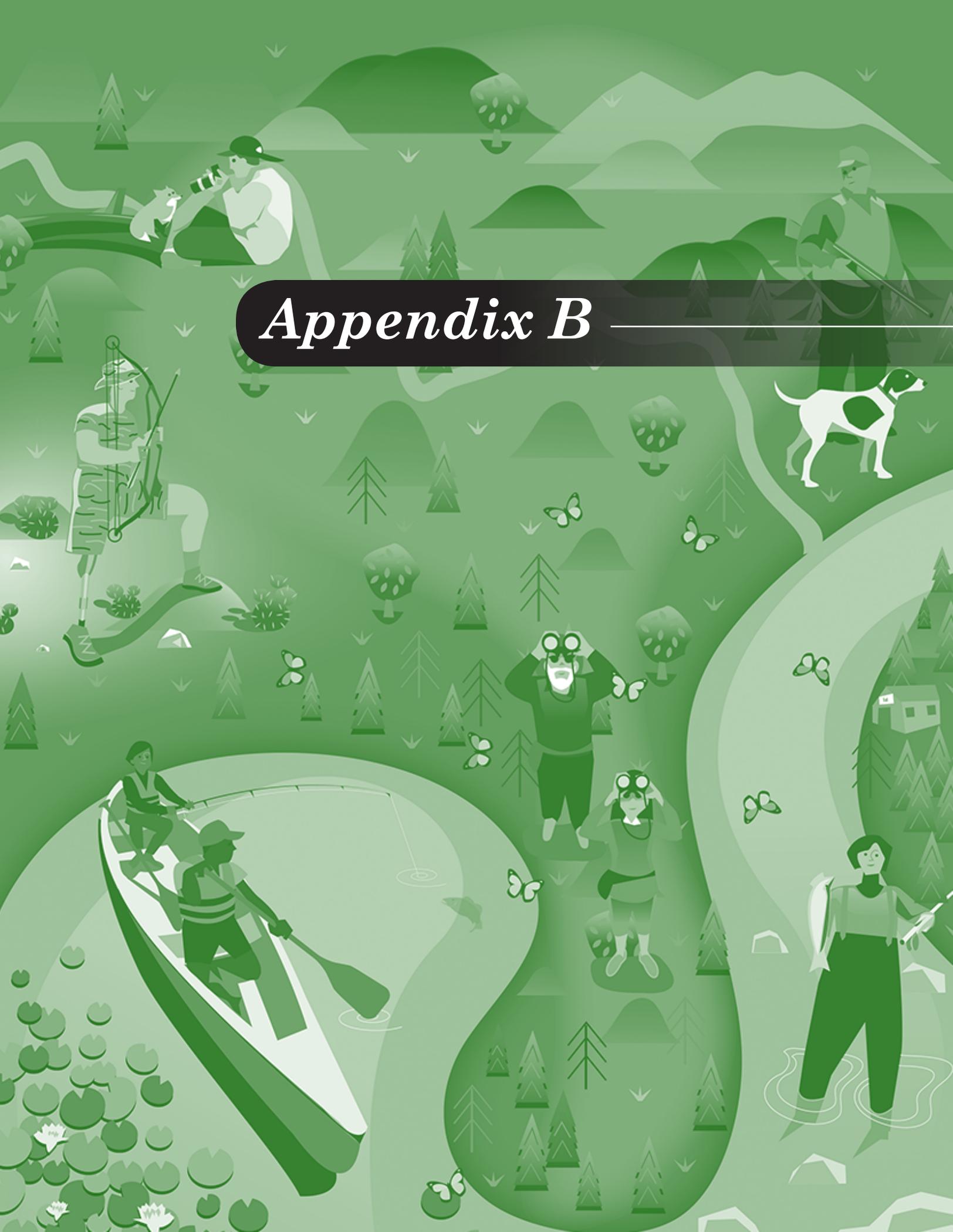
Other bulk food used to feed wild birds

Food for other wildlife

Nest boxes, bird houses, feeders, and baths

Day packs, carrying cases, and special clothing

Other items such as field guides and maps



*Appendix B*

## Appendix B.

# 2010 Participation of 6- to 15-Year-Olds: Data From Screening Interviews

The 2011 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation was carried out in two phases. The first (or screening) phase began in April 2011. The main purpose of this phase was to collect information about all persons 16 years old and older in order to develop a sample of potential sportspeople and wildlife watchers for the second (or detailed) phase. However, information was also collected on the number of persons 6 to 15 years old who participated in wildlife-related recreation activities in 2010.

It is important to emphasize that the information reported from the 2011 screen relates to activity only up to and including 2010. Also, these data are reported by one household respondent

speaking for all household members rather than the actual participants. In addition, these data are based on long-term recall (at least a 12-month recall), which has been found in Survey research (see *Investigation of Possible Recall/Reference Period Bias in National Surveys of Fishing, Hunting and Wildlife-Associated Recreation, December 1989, Westat, Inc.*) to add bias to the resulting estimates. In many cases, longer recall periods result in overestimating participation and expenditures for wildlife-related recreation.

Tables B-1 through B-4 report data on 6- to 15-year-old participants in 2010. Detailed expenditures and recreational activity data were not gathered for the 6- to 15-year-old participants.

Because of differences in methodologies of the screening and the detailed phases of the 2011 Survey, the estimates of the two phases are not comparable. Only participants 16 years old and older were eligible for the detailed phase. The screening phase covered activity for 2010 or earlier; the detailed phase has estimates for only 2011. The detailed phase was a series of interviews of the actual participants conducted at 4- and 8-month intervals. The screening phase was a single interview of one household respondent who reported household events with one year or more recall. The shorter recall period of the detailed phase enabled better data accuracy.

**Table B-1. Nevada Residents 6 to 15 Years Old Participating in Fishing and Hunting Both Inside and Outside Nevada: 2010**

(Population 6 to 15 years old. Numbers in thousands)

| Sportspersons                    | Sportspersons 6 to 15 years old |                          |                       |
|----------------------------------|---------------------------------|--------------------------|-----------------------|
|                                  | Number                          | Percent of sportspersons | Percent of population |
| <b>Total sportspersons</b> ..... | <b>71</b>                       | <b>100</b>               | <b>19</b>             |
| <b>Total anglers</b> .....       | <b>69</b>                       | <b>96</b>                | <b>19</b>             |
| Fished only .....                | 66                              | 93                       | 18                    |
| Fished and hunted .....          | ...                             | ...                      | ...                   |
| <b>Total hunters</b> .....       | ...                             | ...                      | ...                   |
| Hunted only .....                | ...                             | ...                      | ...                   |
| Hunted and fished .....          | ...                             | ...                      | ...                   |

... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses. Column showing percent of sportspersons is based on the "Total sportspersons" row. Column showing percent of population is based on the state population 6 to 15 years old, including those who did not fish or hunt. Data reported on this table are from screening interviews in which one adult household member responded for household members 6 to 15 years old. The screening interview required the respondent to recall 12 months worth of activity. Includes state residents who fished or hunted only in other countries.

**Table B-2. Selected Characteristics of Nevada Resident Anglers and Hunters 6 to 15 Years Old: 2010**

(Population 6 to 15 years old. Numbers in thousands)

| Characteristic                            | Population |            | Sportspersons<br>(fished or hunted) |                          |            | Anglers   |                          |            | Hunters |                          |         |
|---|------------|------------|-------------------------------------|--------------------------|------------|-----------|--------------------------|------------|---------|--------------------------|---------|
|   | Number     | Percent    | Number                              | Percent who participated | Percent    | Number    | Percent who participated | Percent    | Number  | Percent who participated | Percent |
| <b>Total persons</b> .....                | <b>367</b> | <b>100</b> | <b>71</b>                           | <b>19</b>                | <b>100</b> | <b>69</b> | <b>19</b>                | <b>100</b> | ...     | ...                      | ...     |
| <b>Population Density of Residence</b>    |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| Urban .....                               | 329        | 89         | 63                                  | 19                       | 88         | 60        | 18                       | 87         | ...     | ...                      | ...     |
| Rural .....                               | 39         | 11         | *9                                  | *23                      | *12        | *9        | *23                      | *13        | ...     | ...                      | ...     |
| <b>Population Size of Residence</b>       |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| Metropolitan Statistical Area (MSA) ..... | 367        | 100        | 71                                  | 19                       | 100        | 69        | 19                       | 100        | ...     | ...                      | ...     |
| 1,000,000 or more .....                   | 272        | 74         | *50                                 | *18                      | *70        | *47       | *17                      | *69        | ...     | ...                      | ...     |
| 250,000 to 999,999 .....                  | 47         | 13         | *7                                  | *15                      | *10        | *7        | *15                      | *10        | ...     | ...                      | ...     |
| 50,000 to 249,999 .....                   | 48         | 13         | *15                                 | *30                      | *21        | *15       | *30                      | *21        | ...     | ...                      | ...     |
| Outside MSA .....                         | ...        | ...        | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| <b>Age</b>                                |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| 6 to 8 years .....                        | 104        | 28         | *31                                 | *29                      | *43        | *31       | *29                      | *44        | ...     | ...                      | ...     |
| 9 to 11 years .....                       | 122        | 33         | *20                                 | *17                      | *29        | *20       | *17                      | *30        | ...     | ...                      | ...     |
| 12 to 15 years .....                      | 142        | 39         | *20                                 | *14                      | *29        | *18       | *13                      | *26        | ...     | ...                      | ...     |
| <b>Sex</b>                                |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| Male .....                                | 198        | 54         | 44                                  | 22                       | 62         | 42        | 21                       | 61         | ...     | ...                      | ...     |
| Female .....                              | 169        | 46         | *27                                 | *16                      | *38        | *27       | *16                      | *39        | ...     | ...                      | ...     |
| <b>Ethnicity</b>                          |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| Hispanic .....                            | 112        | 30         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| Non-Hispanic .....                        | 256        | 70         | 65                                  | 25                       | 91         | 62        | 24                       | 90         | ...     | ...                      | ...     |
| <b>Race</b>                               |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| White .....                               | 219        | 60         | 44                                  | 20                       | 62         | 42        | 19                       | 60         | ...     | ...                      | ...     |
| African American .....                    | *32        | *9         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| All others .....                          | 117        | 32         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| <b>Annual Household Income</b>            |            |            |                                     |                          |            |           |                          |            |         |                          |         |
| Less than \$20,000 .....                  | *34        | *9         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| \$20,000 to \$29,999 .....                | *57        | *16        | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| \$30,000 to \$39,999 .....                | *50        | *14        | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| \$40,000 to \$49,999 .....                | *26        | *7         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| \$50,000 to \$74,999 .....                | 81         | 22         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| \$75,000 to \$99,999 .....                | *19        | *5         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |
| \$100,000 or more .....                   | 71         | 19         | *22                                 | *31                      | *31        | *22       | *31                      | *33        | ...     | ...                      | ...     |
| Not reported .....                        | *28        | *8         | ...                                 | ...                      | ...        | ...       | ...                      | ...        | ...     | ...                      | ...     |

\* Estimate based on a sample size of 10–29.      ... Sample size too small (less than 10) to report data reliably.

Note: Percent who participated columns show the percent of each row's population who participated in the activity named by the column (the percent of those living in urban areas who wildlife watched, etc.). Remaining percent columns show the percent of each column's participants who are described by the row heading (the percent of wildlife watchers who lived in urban areas, etc.). Data reported on this table are from screening interviews in which one adult household member responded for household members 6 to 15 years old. The screening interview required the respondent to recall 12 months worth of activity. Includes state residents who wildlife watched only in other countries.

**Table B-3. Nevada Residents 6 to 15 Years Old Participating in Wildlife Watching Both Inside and Outside Nevada: 2010**

(Population 6 to 15 years old. Numbers in thousands)

| Participants                              | Number     | Percent of participants | Percent of population |
|---|------------|-------------------------|-----------------------|
| <b>Total participants</b> .....           | <b>130</b> | <b>100</b>              | <b>35</b>             |
| Away from home .....                      | *81        | *62                     | *22                   |
| Around the home .....                     | 81         | 62                      | 22                    |
| Observe wildlife .....                    | 67         | 52                      | 18                    |
| Photograph wildlife .....                 | ...        | ...                     | ...                   |
| Feed wild birds or other wildlife .....   | *28        | *22                     | *8                    |
| Maintain plantings or natural areas ..... | ...        | ...                     | ...                   |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Detail does not add to total because of multiple responses. The column showing percent of participation is based on total participants. The column showing percent of population is based on the state population 6 to 15 years old, including those who did not participate in wildlife watching. Data reported on this table are from screening interviews in which one adult household member responded for all household members 6 to 15 years old. The screening interview required the respondent to recall 12 months worth of activity. Includes persons who wildlife watched only in other countries.

**Table B-4. Selected Characteristics of Nevada Resident Wildlife Watchers 6 to 15 Years Old: 2010**

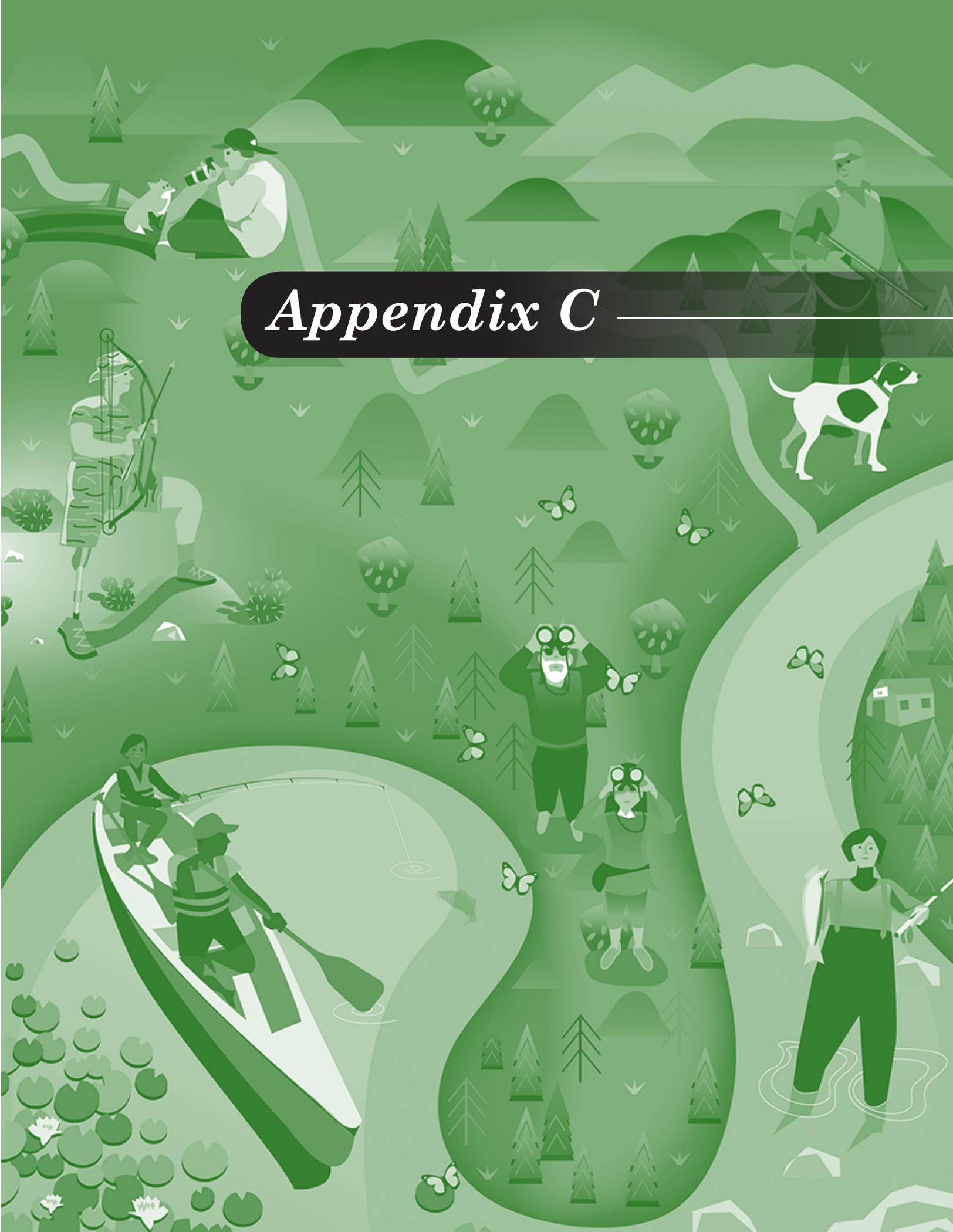
(Population 6 to 15 years old. Numbers in thousands)

| Characteristic                            | Population |            | Total wildlife watchers |                          |            | Away from Home |                          |             | Around the home |                          |            |
|---|------------|------------|-------------------------|--------------------------|------------|----------------|--------------------------|-------------|-----------------|--------------------------|------------|
|   | Number     | Percent    | Number                  | Percent who participated | Percent    | Number         | Percent who participated | Percent     | Number          | Percent who participated | Percent    |
| <b>Total persons</b> .....                | <b>367</b> | <b>100</b> | <b>130</b>              | <b>35</b>                | <b>100</b> | <b>*81</b>     | <b>*22</b>               | <b>*100</b> | <b>81</b>       | <b>22</b>                | <b>100</b> |
| <b>Population Density of Residence</b>    |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| Urban .....                               | 329        | 89         | 122                     | 37                       | 94         | *76            | *23                      | *94         | 74              | 22                       | 91         |
| Rural .....                               | 39         | 11         | *7                      | *19                      | *6         | ...            | ...                      | ...         | *7              | *18                      | *9         |
| <b>Population Size of Residence</b>       |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| Metropolitan Statistical Area (MSA) ..... | 367        | 100        | 130                     | 35                       | 100        | *81            | *22                      | *100        | 81              | 22                       | 100        |
| 1,000,000 or more .....                   | 272        | 74         | *98                     | *36                      | *76        | *69            | *25                      | *85         | *54             | *20                      | *67        |
| 250,000 to 999,999 .....                  | 47         | 13         | *18                     | *39                      | *14        | ...            | ...                      | ...         | *15             | *31                      | *18        |
| 50,000 to 249,999 .....                   | 48         | 13         | *13                     | *27                      | *10        | ...            | ...                      | ...         | *12             | *25                      | *15        |
| Outside MSA .....                         | ...        | ...        | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| <b>Age</b>                                |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| 6 to 8 years .....                        | 104        | 28         | *27                     | *26                      | *21        | ...            | ...                      | ...         | *26             | *25                      | *33        |
| 9 to 11 years .....                       | 122        | 33         | *60                     | *49                      | *46        | *52            | *42                      | *64         | *27             | *23                      | *34        |
| 12 to 15 years .....                      | 142        | 39         | *43                     | *30                      | *33        | *25            | *17                      | *30         | *27             | *19                      | *33        |
| <b>Sex</b>                                |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| Male .....                                | 198        | 54         | 87                      | 44                       | 67         | *57            | *29                      | *70         | *51             | *26                      | *63        |
| Female .....                              | 169        | 46         | *43                     | *25                      | *33        | *24            | *14                      | *30         | *30             | *18                      | *37        |
| <b>Ethnicity</b>                          |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| Hispanic .....                            | 112        | 30         | *34                     | *30                      | *26        | ...            | ...                      | ...         | *24             | *21                      | *29        |
| Non-Hispanic .....                        | 256        | 70         | 96                      | 37                       | 74         | *55            | *22                      | *68         | 57              | 22                       | 71         |
| <b>Race</b>                               |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| White .....                               | 219        | 60         | 64                      | 29                       | 50         | *35            | *16                      | *43         | 46              | 21                       | 57         |
| African American .....                    | *32        | *9         | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| All others .....                          | 117        | 32         | *56                     | *48                      | *44        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| <b>Annual Household Income</b>            |            |            |                         |                          |            |                |                          |             |                 |                          |            |
| Less than \$20,000 .....                  | *34        | *9         | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| \$20,000 to \$29,999 .....                | *57        | *16        | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| \$30,000 to \$39,999 .....                | *50        | *14        | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| \$40,000 to \$49,999 .....                | *26        | *7         | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| \$50,000 to \$74,999 .....                | 81         | 22         | *52                     | *64                      | *40        | ...            | ...                      | ...         | *27             | *33                      | *33        |
| \$75,000 to \$99,999 .....                | *19        | *5         | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |
| \$100,000 or more .....                   | 71         | 19         | *40                     | *56                      | *31        | ...            | ...                      | ...         | *19             | *27                      | *24        |
| Not reported .....                        | *28        | *8         | ...                     | ...                      | ...        | ...            | ...                      | ...         | ...             | ...                      | ...        |

\* Estimate based on a sample size of 10–29. ... Sample size too small (less than 10) to report data reliably.

Note: Percent who participated columns show the percent of each row's population who participated in the activity named by the column (the percent of those living in urban areas who fished, etc.). Remaining percent columns show the percent of each column's participants who are described by the row heading (the percent of anglers who lived in urban areas, etc.). Data reported on this table are from screening interviews in which one adult household member responded for household members 6 to 15 years old. The screening interview required the respondent to recall 12 months worth of activity. Includes state residents who fished or hunted only in other countries.





*Appendix C*

# Appendix C.

## Significant Methodological Changes From Previous Surveys and Regional Trends

This appendix provides a description of data collection changes and national and regional trend information based on the 1991, 1996, 2001, 2006, and 2011 Surveys. Since these five surveys used similar methodologies, their published information is directly comparable.

### Significant Methodological Differences

The most significant design differences in the five Surveys are as follows:

1. The 1991 Survey data was collected by interviewers filling out paper questionnaires. The data entries were keyed in a separate operation after the interview. The 1996, 2001, 2006, and 2011 Survey data were collected by the use of computer-assisted interviews. The questionnaires were programmed into computers, and the interviewer keyed in the responses at the time of the interview.
2. The 1991 Survey screening phase was conducted in January and February of 1991, when a household member of the sample households was interviewed on behalf of the entire household. The screening interviews for the 1996, 2001, and 2006 Surveys were conducted April through June of their survey years in conjunction with the first wave of the detailed interviews. The 2011 Survey also conducted screening interviews and the first detailed interviews April through June of 2011, but furthermore had an additional screening and detailed effort from February 2012 to the end of May 2012. The April–June 2011 screening effort had a high noncontact rate because of poor results using sample telephone numbers obtained from a private firm. Census went back to

the noncontacted component of the original sample in February–May 2012 and interviewed a subsample, requiring annual recall for those respondents. The Wave 3 screen sample was 12,484 of the total 48,600 household screen sample. A modification of the 2011 sampling scheme was to oversample counties that had relatively high proportions of hunting license purchases.

The screening interviews for all five Surveys consisted primarily of demographic questions and wildlife-related recreation questions concerning activity in the previous year (1990, 1995, etc.) and intentions for recreating in the survey year.

In the 1991 Survey, an attempt was made to contact every sample person in all three detailed interview waves. In 1996, 2001, 2006, and 2011 respondents who were interviewed in the first detailed interview wave were not contacted again until the third wave (unless they were part of the other subsample, i.e., a respondent in both the sportsperson and wildlife watching subsamples could be in the first and third wave of sportsperson interviewing and the second and third wave of wildlife watching interviewing). Also, all interviews in the second wave were conducted only by telephone. In-person interviews were only conducted in the first and third waves. The 2011 wave 3 screen phase was composed of both telephone and in-person interviews.

### Section I. Important Instrument Changes in the 1996 Survey

1. The 1991 Survey collected information on all wildlife-related recreation purchases made by participants without reference to where the purchase was made. The

1996 Survey asked in which state the purchase was made.

2. In 1991, respondents were asked what kind of fishing they did, i.e., Great Lakes, other freshwater, or saltwater, and then were asked in what states they fished. In 1996, respondents were asked in which states they fished and then were asked what kind of fishing they did. This method had the advantage of not asking about, for example, saltwater fishing when they only fished in a noncoastal state.
3. In 1991, respondents were asked how many days they “actually” hunted or fished for a particular type of game or fish and then how many days they “chiefly” hunted or fished for the same type of game or fish rather than another type of game or fish. To get total days of hunting or fishing for a particular type of game or fish, the “actually” day response was used, while to get the sum of all days of hunting or fishing, the “chiefly” days were summed. In 1996, respondents were asked their total days of hunting or fishing in the country and each state, then how many days they hunted or fished for a particular type of game or fish.
4. Trip-related and equipment expenditure categories were not the same for all Surveys. “Guide fee” and “Pack trip or package fee” were two separate trip-related expenditure items in 1991, while they were combined into one category in the 1996 Survey. “Boating costs” was added to the 1996 hunting and wildlife-watching trip-related expenditure sections. “Heating and cooking fuel” was added to all of the trip-related expenditure sections. “Spearfishing equipment”

was moved from a separate category to the “other” list. “Rods” and “Reels” were two separate categories in 1991 but were combined in 1996. “Lines, hooks, sinkers, etc.” was one category in 1991 but split into “Lines” and “Hooks, sinkers, etc.” in 1996. “Food used to feed other wildlife” was added to the wildlife-watching equipment section, “Boats” and “Cabins” were added to the wildlife-watching special equipment section, and “Land leasing and ownership” was added to the wildlife-watching expenditures section.

5. Questions asking sportspersons if they participated as much as they wanted were added in 1996. If the sportspersons said no, they were asked why not.
6. The 1991 Survey included questions about participation in organized fishing competitions; anglers using bows and arrows, nets or seines, or spearfishing; hunters using pistols or handguns and target shooting in preparation for hunting. These questions were not asked in 1996.
7. The 1996 Survey included questions about catch and release fishing and persons with disabilities participating in wildlife-related recreation. These questions were not part of the 1991 Survey.
8. The 1991 Survey included questions about average distance traveled to recreation sites. These questions were not included in the 1996 Survey.
9. The 1996 Survey included questions about the last trip the respondent took. Included were questions about the type of trip, where the activity took place, and the distance and direction to the site visited. These questions were not asked in 1991.
10. The 1991 Survey collected data on hunting, fishing, and wildlife watching by U.S. residents in Canada. The 1996 Survey collected data on fishing and wildlife-watching by U.S. residents in Canada.

## Section II. Important Instrument Changes in the 2001 Survey

1. The 1991 and 1996 single race category “Asian or Pacific Islander” was changed to two categories “Asian” and “Native Hawaiian or Other Pacific Islander.” In 1991 and 1996, the respondent was required to pick only one category, while in 2001 the respondent could pick any combination of categories. The next question stipulated that the respondent could only be identified with one category and then asked what that category was.
2. The 1991 and 1996 land leasing and ownership sections asked the respondent to combine the two types of land use into one and give total acreage and expenditures. In 2001, the two types of land use were explored separately.
3. The 1991 and 1996 wildlife-watching sections included questions on birdwatching for around-the-home participants only. The 2001 Survey added a question on birdwatching for away-from-home participants. Also, questions on the use of birding life lists and how many species the respondent can identify were added.
4. “Recreational vehicles” was added to the sportspersons and wildlife-watchers special equipment section. “House trailer” was added to the sportspersons special equipment section.
5. Total personal income was asked in the detailed phase of the 1996 Survey. This was changed to total household income in the 2001 Survey.
6. A question was added to the trip-related expenditures section to ascertain how much of the total was spent in the respondent’s state of residence when the respondent participated in hunting, fishing, or wildlife watching out-of-state.
7. Boating questions were added to the fishing section. The respondent was asked about the extent of boat usage for the three types of fishing.
8. The 1996 Survey included questions about the months around-the-

home wildlife watchers fed birds. These questions were not repeated in the 2001 Survey.

9. The contingent valuation sections of the three types of wildlife-related recreation were altered, using an open-ended question format instead of 1996’s dichotomous choice format.

## Section III. Important Instrument Changes in the 2006 Survey

1. A series of boating questions was added. The new questions dealt with anglers using motorboats and/or nonmotorboats, length of boat used most often, distance to boat launch used most often, needed improvements to facilities at the launch, whether or not the respondent completed a boating safety course, who the boater fished with most often, and the source and type of information the boater used for his or her fishing.
2. Questions regarding catch and release fishing were added. They were whether or not the respondent caught and released fish and, if so, the percent of fish released.
3. The proportion of hunting done with a rifle or shotgun, as contrasted with muzzleloader or archery equipment, was asked.
4. In the contingent valuation section, where the value of wildlife-related recreation was determined, two quality-variable questions were added: the average length of certain fish caught and whether a deer, elk, or moose was killed. Plus the economic evaluation bid questions were rephrased, from “What is the most your [species] hunting in [State name] could have cost you per trip last year before you would NOT have gone [species] hunting at all in 2001, not even one trip, because it would have been too expensive?”, for the hunters, for example, to “What is the cost that would have prevented you from taking even one such trip in 2006? In other words, if the trip cost was below this amount, you would have gone [species] hunting in [State name], but if the trip cost was above this amount, you would not have gone.”

5. Questions concerning hunting, fishing, or wildlife watching in other countries were taken out of the Survey.
6. Questions about the reasons for not going hunting or fishing, or not going as much as expected, were deleted.
7. Disability of participants questions were taken out.
8. Determination of the types of sites for wildlife watching was discontinued.
9. The birding questions regarding the use of birding life lists and the ability to identify birds based on their sight or sounds were deleted.
10. Public transportation costs were divided into two sections, “public transportation by airplane” and “other public transportation, including trains, buses, and car rentals, etc.”.

#### **Section IV. Important Instrument Changes in the 2011 Survey**

1. The series of boating questions added in 2006 was deleted.
2. Questions about target shooting and the usage of a shooting range in preparation for hunting were added. The types of weapon used at the shooting range were quantified.
3. Questions about plantings expenditures for the purpose of hunting were added.
4. “Feral pig” was recategorized from big game to other animals for all states except Hawaii.
5. “Ptarmigan” was included as its own small game category, instead of lumped in “other.”
6. In previous Surveys, “Moose” was included as its own category only for Alaska. For 2011, “Moose” was included as its own big game category, instead of lumped in “other,” for all fifty states.
7. In previous Surveys, “Wolf” was included as its own category only for Alaska. For 2011, “Wolf” was included as its own other animal category, instead of lumped in “other,” for all fifty states.
8. The household income categories were modified. The top categories were changed from “\$100,000 or more” to “\$100,000 to \$149,999” and “\$150,000 or more.”
9. The “Steelhead” category was deleted from the saltwater fish species section, with the idea that it would be included in “other.”
10. The 2006 around-the-home wildlife-watching category that quantified visitors of “public parks or areas” was rewritten to wildlife watching at “parks or natural areas.” This change was to make clear that respondents should include recreating at quasi-governmental and private areas.
11. The 2006 wildlife watching equipment category “Film and developing” was rewritten to “Film and photo processing.”

#### **Regional Trends**

This trends section covers the period from 1991 to 2011. The 1991, 1996, 2001, 2006, and 2011 Surveys used similar methodologies, making all published information for the five Surveys directly comparable.

**Table C-1a. Comparison of Wildlife-Related Recreation in the United States: 1991–1996**

(U.S. population 16 years old and older. Numbers in thousands. All expenditures in 2011 dollars. 1996 expenditures categories made comparable to 1991)

| Participants, days, and expenditures             | 1991<br>(number) | 1996<br>(number) | 1991–1996<br>percent change |
|--|------------------|------------------|-----------------------------|
| <b>Hunting</b>                                   |                  |                  |                             |
| Hunters, total . . . . .                         | 14,063           | 13,975           | NS <sub>-1</sub>            |
| Hunting days, total . . . . .                    | 235,806          | 256,676          | NS <sub>9</sub>             |
| Hunting expenditures, total . . . . .            | \$20,399,152     | \$29,259,999     | 43                          |
| <b>Fishing</b>                                   |                  |                  |                             |
| Anglers, total . . . . .                         | 35,578           | 35,246           | NS <sub>-1</sub>            |
| Fishing days, total . . . . .                    | 511,329          | 625,893          | 22                          |
| Fishing expenditures, total . . . . .            | \$39,669,337     | \$54,224,581     | 37                          |
| <b>Wildlife Watching</b>                         |                  |                  |                             |
| Wildlife watchers, total . . . . .               | 76,111           | 62,868           | -17                         |
| Around the home . . . . .                        | 73,904           | 60,751           | -18                         |
| Away from home . . . . .                         | 29,999           | 23,652           | -21                         |
| Wildlife-watching days, away from home . . . . . | 342,406          | 313,790          | NS <sub>-8</sub>            |
| Wildlife-watching expenditures, total . . . . .  | \$30,574,499     | \$36,924,875     | 21                          |

NS Not different from zero at the 5 percent level of significance.

**Table C-1b. Comparison of Wildlife-Related Recreation in the United States: 1996–2001**

(U.S. population 16 years old and older. Numbers in thousands. All expenditures in 2011 dollars. 1996 and 2001 expenditures categories made comparable to 1991)

| Participants, days, and expenditures             | 1996<br>(number) | 2001<br>(number) | 1996–2001<br>percent change |
|--|------------------|------------------|-----------------------------|
| <b>Hunting</b>                                   |                  |                  |                             |
| Hunters, total . . . . .                         | 13,975           | 13,034           | -7                          |
| Hunting days, total . . . . .                    | 256,676          | 228,368          | -11                         |
| Hunting expenditures, total . . . . .            | \$29,259,999     | \$25,993,960     | NS <sub>-11</sub>           |
| <b>Fishing</b>                                   |                  |                  |                             |
| Anglers, total . . . . .                         | 35,246           | 34,071           | -3                          |
| Fishing days, total . . . . .                    | 625,893          | 557,394          | -11                         |
| Fishing expenditures, total . . . . .            | \$54,224,581     | \$45,076,739     | -17                         |
| <b>Wildlife Watching</b>                         |                  |                  |                             |
| Wildlife watchers, total . . . . .               | 62,868           | 66,105           | 5                           |
| Around the home . . . . .                        | 60,751           | 62,928           | 4                           |
| Away from home . . . . .                         | 23,652           | 21,823           | -8                          |
| Wildlife-watching days, away from home . . . . . | 313,790          | 372,006          | 19                          |
| Wildlife-watching expenditures, total . . . . .  | \$36,924,875     | \$42,904,872     | 16                          |

NS Not different from zero at the 5 percent level of significance.

**Table C-1c. Comparison of Wildlife-Related Recreation in the United States: 2001–2006**

(U.S. population 16 years old and older. Numbers in thousands. All expenditures in 2011 dollars. 2001 and 2006 expenditures categories made comparable to 1991)

| Participants, days, and expenditures             | 2001<br>(number) | 2006<br>(number) | 2001–2006<br>percent change |
|--|------------------|------------------|-----------------------------|
| <b>Hunting</b>                                   |                  |                  |                             |
| Hunters, total . . . . .                         | 13,034           | 12,510           | NS <sub>-4</sub>            |
| Hunting days, total . . . . .                    | 228,368          | 219,925          | NS <sub>-4</sub>            |
| Hunting expenditures, total . . . . .            | \$25,993,960     | \$25,265,523     | NS <sub>-3</sub>            |
| <b>Fishing</b>                                   |                  |                  |                             |
| Anglers, total . . . . .                         | 34,071           | 29,952           | -12                         |
| Fishing days, total . . . . .                    | 557,394          | 516,781          | -7                          |
| Fishing expenditures, total . . . . .            | \$45,076,739     | \$46,909,364     | NS <sub>4</sub>             |
| <b>Wildlife Watching</b>                         |                  |                  |                             |
| Wildlife watchers, total . . . . .               | 66,105           | 71,132           | 8                           |
| Around the home . . . . .                        | 62,928           | 67,756           | 8                           |
| Away from home . . . . .                         | 21,823           | 22,977           | NS <sub>5</sub>             |
| Wildlife-watching days, away from home . . . . . | 372,006          | 352,070          | NS <sub>-5</sub>            |
| Wildlife-watching expenditures, total . . . . .  | \$42,904,872     | \$40,023,078     | NS <sub>-7</sub>            |

NS Not different from zero at the 5 percent level of significance.

**Table C-1d. Comparison of Wildlife-Related Recreation in the United States: 2006–2011**

(U.S. population 16 years old and older. Numbers in thousands. All expenditures in 2011 dollars. 2006 and 2011 expenditures categories made comparable to 1991)

| Participants, days, and expenditures             | 2006<br>(number) | 2011<br>(number) | 2006–2011<br>percent change |
|--|------------------|------------------|-----------------------------|
| <b>Hunting</b>                                   |                  |                  |                             |
| Hunters, total . . . . .                         | 12,510           | 13,674           | 9                           |
| Hunting days, total . . . . .                    | 219,925          | 281,884          | 28                          |
| Hunting expenditures, total . . . . .            | \$25,265,523     | \$32,579,640     | 29                          |
| <b>Fishing</b>                                   |                  |                  |                             |
| Anglers, total . . . . .                         | 29,952           | 33,112           | 11                          |
| Fishing days, total . . . . .                    | 516,781          | 553,841          | NS <sub>7</sub>             |
| Fishing expenditures, total . . . . .            | \$46,909,364     | \$41,624,599     | NS <sub>-11</sub>           |
| <b>Wildlife Watching</b>                         |                  |                  |                             |
| Wildlife watchers, total . . . . .               | 71,132           | 71,776           | NS <sub>1</sub>             |
| Around the home . . . . .                        | 67,756           | 68,598           | NS <sub>1</sub>             |
| Away from home . . . . .                         | 22,977           | 22,496           | NS <sub>-2</sub>            |
| Wildlife-watching days, away from home . . . . . | 352,070          | 335,625          | NS <sub>-5</sub>            |
| Wildlife-watching expenditures, total . . . . .  | \$40,023,078     | \$43,636,608     | NS <sub>9</sub>             |

NS Not different from zero at the 5 percent level of significance.

**Table C-1e. Comparison of Wildlife-Related Recreation in the United States: 1991–2011**

(U.S. population 16 years old and older. Numbers in thousands. All expenditures in 2011 dollars. 2011 expenditures categories made comparable to 1991)

| Participants, days, and expenditures             | 1991<br>(number) | 2011<br>(number) | 1991–2011<br>percent change |
|--|------------------|------------------|-----------------------------|
| <b>Hunting</b>                                   |                  |                  |                             |
| Hunters, total . . . . .                         | 14,063           | 13,674           | <sup>NS</sup> –3            |
| Hunting days, total . . . . .                    | 235,806          | 281,884          | 20                          |
| Hunting expenditures, total . . . . .            | \$20,399,152     | \$32,579,640     | 60                          |
| <b>Fishing</b>                                   |                  |                  |                             |
| Anglers, total . . . . .                         | 35,578           | 33,112           | –7                          |
| Fishing days, total . . . . .                    | 511,329          | 553,841          | 8                           |
| Fishing expenditures, total . . . . .            | \$39,669,337     | \$41,624,599     | <sup>NS</sup> 5             |
| <b>Wildlife Watching</b>                         |                  |                  |                             |
| Wildlife watchers, total . . . . .               | 76,111           | 71,776           | –6                          |
| Around the home . . . . .                        | 73,904           | 68,598           | –7                          |
| Away from home . . . . .                         | 29,999           | 22,496           | –25                         |
| Wildlife-watching days, away from home . . . . . | 342,406          | 335,625          | <sup>NS</sup> –2            |
| Wildlife-watching expenditures, total . . . . .  | \$30,574,499     | \$43,636,608     | 43                          |

<sup>NS</sup> Not different from zero at the 5 percent level of significance.

**Table C-2. Anglers and Hunters by Census Division: 1991, 1996, 2001, 2006, and 2011**

(U.S. population 16 years old and older. Numbers in thousands)

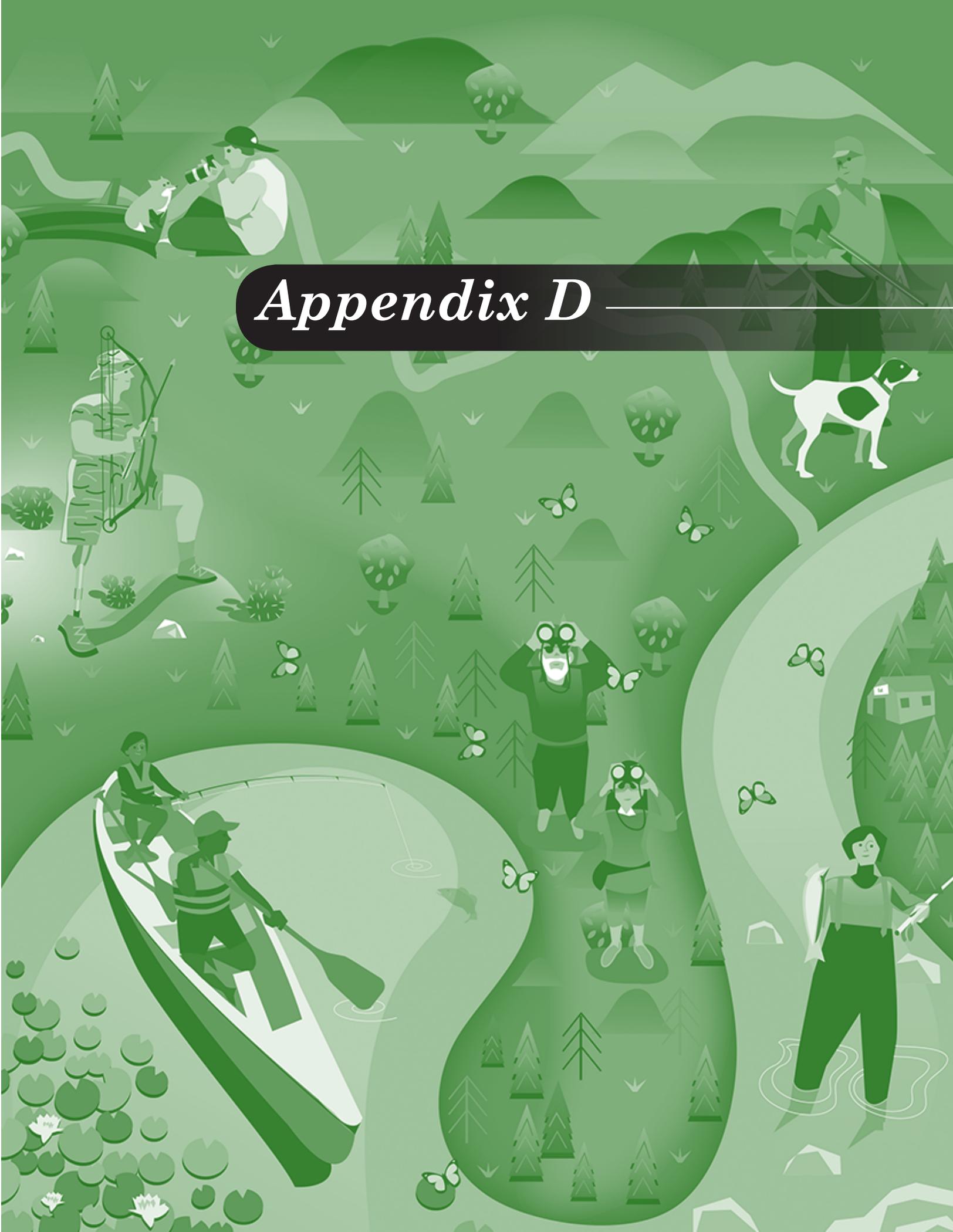
| Area and sportsperson     | 1991    |         | 1996    |         | 2001    |         | 2006    |         | 2011    |         |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                           | Number  | Percent |
| <b>UNITED STATES</b>      |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 189,964 | 100     | 201,472 | 100     | 212,298 | 100     | 229,245 | 100     | 239,313 | 100     |
| Sportspersons .....       | 39,979  | 21      | 39,694  | 20      | 37,805  | 18      | 33,916  | 15      | 37,397  | 16      |
| Anglers .....             | 35,578  | 19      | 35,246  | 17      | 34,067  | 16      | 29,952  | 13      | 33,112  | 14      |
| Hunters .....             | 14,063  | 7       | 13,975  | 7       | 13,034  | 6       | 12,510  | 5       | 13,674  | 6       |
| <b>New England</b>        |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 10,180  | 100     | 10,306  | 100     | 10,575  | 100     | 11,233  | 100     | 11,593  | 100     |
| Sportspersons .....       | 1,658   | 16      | 1,673   | 16      | 1,504   | 14      | 1,353   | 12      | 1,441   | 12      |
| Anglers .....             | 1,545   | 15      | 1,520   | 15      | 1,402   | 13      | 1,246   | 11      | 1,355   | 12      |
| Hunters .....             | 444     | 4       | 465     | 5       | 386     | 4       | 374     | 3       | 420     | 4       |
| <b>Middle Atlantic</b>    |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 29,216  | 100     | 29,371  | 100     | 29,806  | 100     | 31,518  | 100     | 32,392  | 100     |
| Sportspersons .....       | 4,508   | 15      | 4,192   | 14      | 3,810   | 13      | 3,214   | 10      | 3,966   | 12      |
| Anglers .....             | 3,871   | 13      | 3,627   | 12      | 3,250   | 11      | 2,550   | 8       | 3,496   | 11      |
| Hunters .....             | 1,746   | 6       | 1,453   | 5       | 1,633   | 5       | 1,520   | 5       | 1,558   | 5       |
| <b>East North Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 32,188  | 100     | 33,121  | 100     | 34,082  | 100     | 35,609  | 100     | 36,199  | 100     |
| Sportspersons .....       | 7,202   | 22      | 6,912   | 21      | 6,400   | 19      | 5,975   | 17      | 6,766   | 19      |
| Anglers .....             | 6,264   | 19      | 6,006   | 18      | 5,655   | 17      | 5,190   | 15      | 5,861   | 16      |
| Hunters .....             | 2,789   | 9       | 2,712   | 8       | 2,421   | 7       | 2,376   | 7       | 2,688   | 7       |
| <b>West North Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 13,504  | 100     | 13,875  | 100     | 14,430  | 100     | 15,458  | 100     | 15,860  | 100     |
| Sportspersons .....       | 4,143   | 31      | 3,977   | 29      | 4,239   | 29      | 3,836   | 25      | 3,980   | 25      |
| Anglers .....             | 3,647   | 27      | 3,416   | 25      | 3,836   | 27      | 3,284   | 21      | 3,591   | 23      |
| Hunters .....             | 1,709   | 13      | 1,917   | 14      | 1,710   | 12      | 1,779   | 12      | 1,661   | 10      |
| <b>South Atlantic</b>     |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 33,682  | 100     | 36,776  | 100     | 39,286  | 100     | 43,965  | 100     | 46,417  | 100     |
| Sportspersons .....       | 6,996   | 21      | 7,282   | 20      | 6,957   | 18      | 6,633   | 15      | 6,749   | 15      |
| Anglers .....             | 6,441   | 19      | 6,636   | 18      | 6,451   | 16      | 6,116   | 14      | 6,163   | 13      |
| Hunters .....             | 2,083   | 6       | 2,050   | 6       | 1,875   | 5       | 1,884   | 4       | 1,870   | 4       |
| <b>East South Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 11,667  | 100     | 12,459  | 100     | 12,976  | 100     | 13,722  | 100     | 14,206  | 100     |
| Sportspersons .....       | 2,984   | 26      | 2,907   | 23      | 2,865   | 22      | 2,689   | 20      | 3,010   | 21      |
| Anglers .....             | 2,635   | 23      | 2,514   | 20      | 2,543   | 20      | 2,436   | 18      | 2,444   | 17      |
| Hunters .....             | 1,279   | 11      | 1,301   | 10      | 1,164   | 9       | 1,101   | 8       | 1,531   | 11      |
| <b>West South Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 19,926  | 100     | 21,811  | 100     | 23,337  | 100     | 25,407  | 100     | 27,195  | 100     |
| Sportspersons .....       | 5,125   | 26      | 5,093   | 23      | 4,924   | 21      | 4,499   | 18      | 4,855   | 18      |
| Anglers .....             | 4,592   | 23      | 4,616   | 21      | 4,375   | 19      | 3,952   | 16      | 4,298   | 16      |
| Hunters .....             | 1,843   | 9       | 1,812   | 8       | 1,988   | 9       | 1,810   | 7       | 1,909   | 7       |
| <b>Mountain</b>           |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 10,092  | 100     | 11,966  | 100     | 13,308  | 100     | 15,651  | 100     | 17,013  | 100     |
| Sportspersons .....       | 2,488   | 25      | 2,761   | 23      | 2,757   | 21      | 2,372   | 15      | 2,976   | 17      |
| Anglers .....             | 2,079   | 21      | 2,411   | 20      | 2,443   | 18      | 2,084   | 13      | 2,586   | 15      |
| Hunters .....             | 1,069   | 11      | 1,061   | 9       | 1,020   | 8       | 868     | 6       | 1,043   | 6       |
| <b>Pacific</b>            |         |         |         |         |         |         |         |         |         |         |
| Total population .....    | 29,508  | 100     | 31,787  | 100     | 34,498  | 100     | 36,681  | 100     | 38,438  | 100     |
| Sportspersons .....       | 4,875   | 17      | 4,897   | 15      | 4,349   | 13      | 3,345   | 9       | 3,654   | 10      |
| Anglers .....             | 4,505   | 15      | 4,501   | 14      | 4,111   | 12      | 3,094   | 8       | 3,319   | 9       |
| Hunters .....             | 1,101   | 4       | 1,203   | 4       | 837     | 2       | 798     | 2       | 996     | 3       |

**Table C-3. Wildlife-Watching Participants by Census Division: 1991, 1996, 2001, 2006, and 2011**

(U.S. population 16 years old and older. Numbers in thousands)

| Area and wildlife watcher | 1991    |         | 1996    |         | 2001    |         | 2006    |         | 2011    |         |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                           | Number  | Percent |
| <b>UNITED STATES</b>      |         |         |         |         |         |         |         |         |         |         |
| Total population          | 189,964 | 100     | 201,472 | 100     | 212,298 | 100     | 229,245 | 100     | 239,313 | 100     |
| Total wildlife watchers   | 76,111  | 40      | 62,868  | 31      | 66,105  | 31      | 71,132  | 31      | 71,776  | 30      |
| Away from home            | 29,999  | 16      | 23,652  | 12      | 21,823  | 10      | 22,977  | 10      | 22,496  | 9       |
| Around the home           | 73,904  | 39      | 60,751  | 30      | 62,928  | 30      | 67,756  | 30      | 68,598  | 29      |
| <b>New England</b>        |         |         |         |         |         |         |         |         |         |         |
| Total population          | 10,180  | 100     | 10,306  | 100     | 10,575  | 100     | 11,233  | 100     | 11,593  | 100     |
| Total wildlife watchers   | 4,598   | 45      | 3,710   | 36      | 3,875   | 37      | 4,489   | 40      | 3,954   | 34      |
| Away from home            | 1,856   | 18      | 1,443   | 14      | 1,155   | 11      | 1,340   | 12      | 1,187   | 10      |
| Around the home           | 4,544   | 45      | 3,586   | 35      | 3,765   | 36      | 4,310   | 38      | 3,858   | 33      |
| <b>Middle Atlantic</b>    |         |         |         |         |         |         |         |         |         |         |
| Total population          | 29,216  | 100     | 29,371  | 100     | 29,806  | 100     | 31,518  | 100     | 32,392  | 100     |
| Total wildlife watchers   | 10,556  | 36      | 8,185   | 28      | 8,740   | 29      | 8,723   | 28      | 9,118   | 28      |
| Away from home            | 4,166   | 14      | 2,960   | 10      | 2,849   | 10      | 2,729   | 9       | 2,561   | 8       |
| Around the home           | 10,282  | 35      | 8,023   | 27      | 8,452   | 28      | 8,451   | 27      | 8,744   | 27      |
| <b>East North Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population          | 32,188  | 100     | 33,121  | 100     | 34,082  | 100     | 35,609  | 100     | 36,199  | 100     |
| Total wildlife watchers   | 14,511  | 45      | 11,731  | 35      | 11,631  | 34      | 12,215  | 34      | 12,840  | 35      |
| Away from home            | 5,572   | 17      | 4,501   | 14      | 3,571   | 10      | 3,792   | 11      | 3,168   | 9       |
| Around the home           | 14,175  | 44      | 11,297  | 34      | 11,196  | 33      | 11,845  | 33      | 12,492  | 35      |
| <b>West North Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population          | 13,504  | 100     | 13,875  | 100     | 14,430  | 100     | 15,458  | 100     | 15,860  | 100     |
| Total wildlife watchers   | 6,924   | 51      | 5,089   | 37      | 6,206   | 43      | 6,741   | 44      | 5,479   | 35      |
| Away from home            | 2,654   | 20      | 1,927   | 14      | 2,059   | 14      | 2,163   | 14      | 1,783   | 11      |
| Around the home           | 6,722   | 50      | 4,900   | 35      | 5,938   | 41      | 6,447   | 42      | 5,201   | 33      |
| <b>South Atlantic</b>     |         |         |         |         |         |         |         |         |         |         |
| Total population          | 33,682  | 100     | 36,776  | 100     | 39,286  | 100     | 43,965  | 100     | 46,417  | 100     |
| Total wildlife watchers   | 13,047  | 39      | 11,252  | 31      | 11,395  | 29      | 12,862  | 29      | 13,315  | 29      |
| Away from home            | 4,450   | 13      | 3,992   | 11      | 3,469   | 9       | 3,208   | 7       | 4,393   | 9       |
| Around the home           | 12,813  | 38      | 10,964  | 30      | 10,911  | 28      | 12,432  | 28      | 12,767  | 28      |
| <b>East South Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population          | 11,667  | 100     | 12,459  | 100     | 12,976  | 100     | 13,722  | 100     | 14,206  | 100     |
| Total wildlife watchers   | 4,864   | 42      | 3,904   | 31      | 4,514   | 35      | 4,931   | 36      | 4,663   | 33      |
| Away from home            | 1,592   | 14      | 1,118   | 9       | 1,086   | 8       | 1,758   | 13      | 1,456   | 10      |
| Around the home           | 4,765   | 41      | 3,795   | 30      | 4,390   | 34      | 4,683   | 34      | 4,394   | 31      |
| <b>West South Central</b> |         |         |         |         |         |         |         |         |         |         |
| Total population          | 19,926  | 100     | 21,811  | 100     | 23,337  | 100     | 25,407  | 100     | 27,195  | 100     |
| Total wildlife watchers   | 7,035   | 35      | 5,933   | 27      | 5,747   | 25      | 6,764   | 27      | 7,164   | 26      |
| Away from home            | 2,459   | 12      | 2,096   | 10      | 1,822   | 8       | 2,127   | 8       | 1,728   | 6       |
| Around the home           | 6,817   | 34      | 5,773   | 26      | 5,490   | 24      | 6,319   | 25      | 7,087   | 26      |
| <b>Mountain</b>           |         |         |         |         |         |         |         |         |         |         |
| Total population          | 10,092  | 100     | 11,966  | 100     | 13,308  | 100     | 15,651  | 100     | 17,013  | 100     |
| Total wildlife watchers   | 4,437   | 44      | 4,099   | 34      | 4,619   | 35      | 4,968   | 32      | 5,189   | 30      |
| Away from home            | 2,215   | 22      | 1,967   | 16      | 2,019   | 15      | 2,004   | 13      | 2,230   | 13      |
| Around the home           | 4,145   | 41      | 3,855   | 32      | 4,282   | 32      | 4,605   | 29      | 4,716   | 28      |
| <b>Pacific</b>            |         |         |         |         |         |         |         |         |         |         |
| Total population          | 29,508  | 100     | 31,787  | 100     | 34,498  | 100     | 36,681  | 100     | 38,438  | 100     |
| Total wildlife watchers   | 10,139  | 34      | 8,966   | 28      | 9,377   | 27      | 9,439   | 26      | 10,054  | 26      |
| Away from home            | 5,035   | 17      | 3,648   | 11      | 3,793   | 11      | 3,856   | 11      | 3,990   | 10      |
| Around the home           | 9,641   | 33      | 8,558   | 27      | 8,504   | 25      | 8,664   | 24      | 9,337   | 24      |





*Appendix D*

# Appendix D.

## Sample Design and Statistical Accuracy

This appendix is presented in two parts. The first part is the U.S. Census Bureau Source and Accuracy Statement. This statement describes the sampling design for the 2011 Survey and highlights the steps taken to produce estimates from the completed questionnaires. The statement explains the use of standard errors and confidence intervals. It also provides comprehensive information about errors characteristic of surveys and formulas and parameters to calculate an approximate standard error or confidence interval for each number published in this report. The second part, Tables D-1 through D-9, reports estimates and approximate standard errors for selected measures of participation and expenditures for wildlife-related recreation.

### Source and Accuracy Statement for the Nevada State Report of the 2011 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation

#### SOURCE OF DATA

The estimates in this report are based on data collected in the *2011 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation* (FHWAR) conducted by the Census Bureau and sponsored by the U.S. Fish and Wildlife Service.

The eligible universe for the FHWAR is the civilian noninstitutionalized and nonbarrack military population living in the United States. The institutionalized population, which is excluded from the population universe, is composed primarily of the population in correctional institutions and nursing homes (98 percent of the 4 million institutionalized people in Census 2010).

The 2011 FHWAR was designed to provide state-level estimates of the number of participants in recreational

hunting and fishing and in wildlife watching activities (e.g., wildlife observation). Information was collected on the number of participants, where and how often they participated, the type of wildlife encountered, and the amounts of money spent on wildlife-related recreation.

The survey was conducted in two stages: an initial screening of households to identify likely sportspersons and wildlife-watching participants and a series of follow-up interviews of selected persons to collect detailed data about their wildlife-related recreation during 2011.

#### SAMPLE DESIGN

The 2011 FHWAR sample was selected from the Census Bureau's master address file (MAF).

The FHWAR is a multistage probability sample, with coverage in all 50 states and the District of Columbia.<sup>1</sup> In the first stage of the sampling process, primary sampling units (PSUs) are selected for sample. The PSUs are defined to correspond to the Office of Management and Budget definitions of Core Based Statistical Area definitions and to improve efficiency in field operations. The United States is divided into 2,025 PSUs. These PSUs are grouped into 824 strata. Within each stratum, a single PSU is chosen for the sample, with its probability of selection proportional to its population as of the 2000 decennial census. This PSU represents the entire stratum from which it was selected. In the case of strata consisting of only one PSU, the PSU is chosen with certainty.

<sup>1</sup> The sample size in the District of Columbia (D.C.) is not of sufficient size to produce reliable estimates for only D.C. The sample responses from D.C. are included in the U.S. totals for complete coverage of the U.S. (excluding Puerto Rico and the U.S. Virgin Islands).

Within the selected PSUs, the FHWAR sample was selected from the MAF.

#### FHWAR Screening Sample

The total screening sample in Nevada consisted of **1,563** households. Interviewing for the screen was conducted during April, May, and June 2011. Due to a high noncontact rate, an additional personal visit screening interview, for a subsample of noncontact cases, occurred again in February, March, April, or May 2012. Of all housing units in sample, about **1,391** were determined to be eligible for interview. Interviewers obtained interviews at **975** of these units for a Nevada response rate of **70** percent.<sup>2</sup> Nevada's weighted response rate was **74** percent. The interviewers asked screening questions for all household members 6 years old and older. Noninterviews occur when the occupants are not found at home after repeated calls or are unavailable for some other reason.

Data for the FHWAR sportspersons sample and wildlife-watchers sample were collected in three waves.<sup>3</sup> The first wave started in April 2011, the second in September 2011, and the third in January 2012. In the sportspersons sample, all persons who hunted or fished in 2011 by the time of the screening interview were interviewed in the first wave. The remaining sportspersons in sample were interviewed in the second wave. The reference period was the preceding 4 months for waves 1 and 2. In wave 3, the reference period was either 4, 8, or 12 months depending on when the sample person was first interviewed.

<sup>2</sup> Response rates are calculated by using APPOR's RR2 formula.

<sup>3</sup> The sample cases selected due to high noncontact rates were only interviewed once. They received a screener and if they had some form of participation a detailed questionnaire. These participants did not get three waves of interviewing. The reference period for these sampled cases was between 13 and 16 months.

## Detailed Samples

Two independent detailed samples were chosen from the FHWR screening sample. One consisted of sportspersons (people who hunt or fish) and the other of wildlife watchers (people who observe, photograph, or feed wildlife).

### A. Sportspersons

The Census Bureau selected the detailed samples based on information reported during the screening phase. Based on information collected from the household respondent, every person 16 years old and older in the FHWR screening sample was assigned to a sportspersons stratum. The criteria for the strata included time devoted to hunting or fishing in previous years, participation in hunting or fishing in 2011 by the time of the screening interview, and intentions to participate in hunting and fishing activities during the remainder of 2011.<sup>4</sup> The four sportspersons categories were:

1. *Active*—a person who had already participated in hunting or fishing in 2011 at the time of the screener interview.
2. *Likely*—a person who had not participated in 2011 at the time of the screener, but had participated in 2010 OR was likely to participate in 2011.
3. *Inactive*—a person who had not participated in 2010 or 2011 AND was somewhat unlikely to participate in 2011.
4. *Nonparticipant*—a person who had not participated in 2010 or 2011 AND was very unlikely to participate in 2011.

Due to the high noncontact rates in wave 1, all persons in the active, likely, and inactive groups were selected with certainty.

Active sportspersons were given the detailed interview twice—at the time of the screening interview (in April, May, or June 2011) and again in January or February 2012.<sup>5</sup> Likely sportspersons and inactive sportspersons were also interviewed

<sup>4</sup> The sample cases selected due to high noncontact rates were not assigned a sportsperson stratum.

<sup>5</sup> The sample cases selected due to high noncontact rates were given the detailed sportsperson interview once.

twice—first in September or October 2011, then in January or February 2012. Persons in the nonparticipant group were not eligible for a detailed interview. About **361** persons were designated for interviews in Nevada. The detailed sportspersons sample sizes varied by state to get reliable state-level estimates. During each interview period, about **32** percent of the designated persons were not found at home or were unavailable for some other reason. Overall, about **244** detailed sportspersons interviews were completed at a response rate of **68** percent.

### B. Wildlife Watchers

The wildlife-watching detailed sample was also selected based on information reported during the screening phase. Based on information collected from the household respondent, every person 16 years old and older was assigned to a stratum. The criteria for the strata included time devoted to wildlife watching activities in previous years, participation in wildlife watching activities in 2011 by the time of the screening interview, and intentions to participate in wildlife watching activities during the remainder of 2011.<sup>6</sup> The five wildlife-watching categories were:

1. *Active*—a person who had already participated in 2011 at the time of the screening interview.
2. *Avid*—a person who had not yet participated in 2011, but in 2010 had taken trips to participate in wildlife-watching activities for 21 or more days or had spent \$300 or more.
3. *Average*—a person who had not yet participated in 2011, but in 2010 had taken trips to wildlife watch for less than 21 days and had spent less than \$300 OR had not participated in wildlife-watching activities but was very likely to in the remainder of 2011.
4. *Infrequent*—a person who had not participated in 2010 or 2011, but was somewhat

<sup>6</sup> The sample cases selected due to high noncontact rates were not assigned a wildlife watcher stratum. Wildlife-watching participants in these cases were then subsampled into the detailed questionnaire.

likely or somewhat unlikely to participate in the remainder of 2011.

5. *Nonparticipant*—a person who had not participated in 2010 or 2011 AND was very unlikely to participate during the remainder of 2011.

Persons were selected for the detailed sample based on these groupings, but persons in the nonparticipant group were not eligible for a detailed interview.

A subsample of each of the other groups was selected to receive a detailed interview with the chance of selection diminishing as the likelihood of participation diminished. Wildlife-watching participants were given the detailed interview twice.<sup>7</sup> Some received their first detailed interview at the same time as the screening interview (in April, May, or June 2011). The rest received their first detailed interview in September or October 2011. All wildlife-watching participants received their second interview in January or February 2012. Some respondents were given the screener and detailed interview in February, March, April, or May 2012. About **345** persons were designated for interviews in Nevada. The detailed wildlife-watching sample sizes varied by state to get reliable state-level estimates. During each interview period, about **33** percent of the designated persons were not found at home or were unavailable for some other reason. Overall, about **232** detailed wildlife watcher interviews were completed at a response rate of **67** percent.

## ESTIMATION PROCEDURE

Several stages of adjustments were used to derive the final 2011 FHWR person weights. A brief description of the major components of the weights is given below. All statistics for the population 6 to 15 years of age were derived from the screening interview. Statistics for the population 16 years old and older come from both the screening and detailed interviews. Estimates that come from the screening sample are presented in Appendix B.

<sup>7</sup> The sample cases selected due to high noncontact rates were given the detailed wildlife-watching interview once.

## A. Screening Sample

Every interviewed person in the screening sample received a screening weight that was the product of the following factors:

1. *Base Weight.* The base weight is the inverse of the household's probability of selection.
2. *Household Noninterview Adjustment.* The noninterview adjustment inflates the weight assigned to interviewed households to account for households eligible for interview but for which no interview was obtained.
3. *First-Stage Adjustment.* The 824 areas designated for our samples were selected from 2,025 such areas of the United States. Some sample areas represent only themselves and are referred to as self-representing. The remaining areas represent other areas similar in selected characteristics and are thus designated non-self-representing. The first-stage factor reduces the component of variation arising from sampling the non-self-representing areas.
4. *Second-Stage Adjustment.* This adjustment brings the estimates of the total population into agreement with census-based estimates of the civilian noninstitutionalized and nonbarrack military populations for each state.

## B. Sportspersons Sample

Every interviewed person in the sportspersons detailed sample received a weight that was the product of the following factors:

1. *Screening Weight.* This is the person's final weight from the screening sample.
2. *Sportspersons Stratum Adjustment.* This factor inflates the weights of persons selected for the detailed sample to account for the subsampling done within each sportsperson stratum.
3. *Sportspersons Noninterview Adjustment.* This factor adjusts

the weights of the interviewed sportspersons to account for sportspersons selected for the detailed sample for whom no interview was obtained. A person was considered a noninterview if he or she was not interviewed in the third wave of interviewing.

4. *Sportspersons Ratio Adjustment Factor.* This is a ratio adjustment of the detailed sample to the screening sample within the sportspersons sampling strata. This adjustment brings the population estimates of persons aged 16 years old and older from the detailed sample into agreement with the same estimates from the screening sample, which was a much larger sample.

## C. Wildlife-Watchers Sample

Every interviewed person in the wildlife-watchers detailed sample received a weight that was the product of the following factors:

1. *Screening Weight.* This is the person's final weight from the screening sample.
2. *Wildlife-Watchers Stratum Adjustment.* This factor inflates the weights of persons selected for the detailed sample to account for the subsampling done within each wildlife watcher stratum.
3. *Wildlife-Watchers Noninterview Adjustment.* This factor adjusts the weights of the interviewed wildlife-watching participants to account for wildlife watchers selected for the detailed sample for whom no interview was obtained. A person was considered a noninterview if he or she was not interviewed in the third wave of interviewing.
4. *Wildlife-Watchers Ratio Adjustment Factor.* This is a ratio adjustment of the detailed sample to the screening sample within the wildlife-watchers sampling strata. This adjustment brings the population estimates of persons aged 16 years old and older from the detailed sample into agreement

with the same estimates from the screening sample, which was a much larger sample.

## ACCURACY OF THE ESTIMATES

A sample survey estimate has two types of error: sampling and nonsampling. The accuracy of an estimate depends on both types of error. The nature of the sampling error is known given the survey design; the full extent of the nonsampling error is unknown.

## NONSAMPLING ERROR

For a given estimator, the difference between the estimate that would result if the sample were to include the entire population and the true population value being estimated is known as nonsampling error. There are several sources of nonsampling error that may occur during the development or execution of the survey. It can occur because of circumstances created by the interviewer, the respondent, the survey instrument, or the way the data are collected and processed. For example, errors could occur because:

- The interviewer records the wrong answer, the respondent provides incorrect information, the respondent estimates the requested information, or an unclear survey question is misunderstood by the respondent (measurement error).
- Some individuals who should have been included in the survey frame were missed (coverage error).
- Responses are not collected from all those in the sample or the respondent is unwilling to provide information (nonresponse error).
- Values are estimated imprecisely for missing data (imputation error).
- Forms may be lost; data may be incorrectly keyed, coded, or recoded, etc. (processing error).

The Census Bureau employs quality control procedures throughout the production process, including the overall design of surveys, the wording of questions, and the review of the work of interviewers and coders to minimize these errors. Two types of nonsampling error that can be exam-

ined to a limited extent are nonresponse and undercoverage.

*Nonresponse.* The effect of nonresponse cannot be measured directly, but one indication of its potential effect is the nonresponse rate. For the FHWAR screener interview in Nevada, the household-level nonresponse rate was 30 percent. The person-level nonresponse rate for the detailed sportsperson interview in Nevada was an additional 32 percent and for the wildlife watchers it was 33 percent. Since the screener nonresponse rate is a household-level rate and the detailed interview nonresponse rate is a person-level rate, we cannot combine these rates to derive an overall nonresponse rate. Since it is unlikely the nonresponding households to the FHWAR have the same number of persons as the households successfully interviewed, combining these rates would result in an overestimate of the “true” person-level overall nonresponse rate for the detailed interviews.

*Coverage.* Overall screener undercoverage is estimated to be about 13 percent. Ratio estimation to independent population controls, as described previously, partially corrects for the bias due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics from those of interviewed persons in the same age group.

*Comparability of Data.* Data obtained from the 2011 FHWAR and other sources are not entirely comparable. This results from differences in interviewer training and experience and in differing survey processes. This is an example of nonsampling variability not reflected in the standard errors. Therefore, caution should be used when comparing results from different sources. (See Appendix C.)

*A Nonsampling Error Warning.* Since the full extent of the nonsampling error is unknown, one should be particularly careful when interpreting results based on small differences between estimates. The Census Bureau recommends that data users incorporate information about nonsampling errors into their analyses, as nonsampling error could impact the conclusions drawn from

the results. Caution should also be used when interpreting results based on a relatively small number of cases. Summary measures (such as medians and percentage distributions) probably do not reveal useful information when computed on a subpopulation smaller than 90,000 for screener data, 100,000 for the detailed sportsperson data, and 235,000 for the wildlife-watchers data.

## SAMPLING ERROR

Since the FHWAR estimates come from a sample, they may differ from figures from an enumeration of the entire population using the same questionnaires, instructions, and enumerators. For a given estimator, the difference between an estimate based on a sample and the estimate that would result if the sample were to include the entire population is known as sampling error. Standard errors, as calculated by methods described in “Standard Errors and Their Use,” are primarily measures of the magnitude of sampling error. However, they may include some nonsampling error.

*Standard Errors and Their Use.* The sample estimate and its standard error enable one to construct a confidence interval. A confidence interval is a range that has a known probability of including the average result of all possible samples. For example, if all possible samples were surveyed under essentially the same general conditions and using the same sample design, and if an estimate and its standard error were calculated from each sample, then approximately 95 percent of the intervals from 1.96 standard errors below the estimate to 1.96 standard errors above the estimate would include the average result of all possible samples. A particular confidence interval may or may not contain the average estimate derived from all possible samples. However, one can say with specified confidence that the interval includes the average estimate calculated from all possible samples. Standard errors may also be used to perform hypothesis testing, a procedure for distinguishing between population parameters using sample estimates. The most common type of hypothesis is that the population parameters are different. An example would be comparing the proportion of anglers to the proportion of hunters. Tests may be performed at various

levels of significance. A significance level is the probability of concluding that the characteristics are different when, in fact, they are the same. For example, to conclude that two characteristics are different at the 0.05 level of significance, the absolute value of the estimated difference between characteristics must be greater than or equal to 1.96 times the standard error of the difference. This report uses 95-percent confidence intervals and 0.05 level of significance to determine statistical validity. Consult standard statistical textbooks for alternative criteria.

*Estimating Standard Errors.* The Census Bureau uses replication methods to estimate the standard errors of FHWAR estimates. These methods primarily measure the magnitude of sampling error. However, they do measure some effects of nonsampling error as well. They do not measure systematic biases in the data associated with nonsampling error. Bias is the average over all possible samples of the differences between the sample estimates and the true value.

*Generalized Variance Parameters.* While it is possible to compute and present an estimate of the standard error based on the survey data for each estimate in a report, there are a number of reasons why this is not done. A presentation of the individual standard errors would be of limited use, since one could not possibly predict all of the combinations of results that may be of interest to data users. Additionally, data users have access to FHWAR microdata files, and it is impossible to compute in advance the standard error for every estimate one might obtain from those data sets. Moreover, variance estimates are based on sample data and have variances of their own. Therefore, some methods of stabilizing these estimates of variance, for example, by generalizing or averaging over time, may be used to improve their reliability. Experience has shown that certain groups of estimates have similar relationships between their variances and expected values. Modeling or generalizing may provide more stable variance estimates by taking advantage of these similarities. The generalized variance function is a simple model that expresses the variance as a function of the expected value of the survey estimate. The parameters of the

generalized variance function are estimated using direct replicate variances. These generalized variance parameters provide a relatively easy method to obtain approximate standard errors for numerous characteristics. Table D-2 provide the generalized variance parameters for FHWAR data. Methods for using the parameters to calculate standard errors of various estimates are given in the next sections.

*Standard Errors of Estimated Numbers.* The approximate standard error,  $s_x$ , of an estimated number shown in this report can be obtained using the following formulas. Formula (1) is used to calculate the standard errors of levels of sportspersons, anglers, and wildlife watchers.

$$s_x = \sqrt{ax^2 + bx} \quad (1)$$

Here,  $x$  is the size of the estimate and  $a$  and  $b$  are the parameters in the tables associated with the particular characteristic.

Formula (2) is used for standard errors of aggregates, i.e., trips, days, and expenditures.

$$s_x = \sqrt{ax^2 + bx + \frac{cx^2}{y}} \quad (2)$$

Here,  $x$  is again the size of the estimate;  $y$  is the base of the estimate; and  $a$ ,  $b$ , and  $c$  are the parameters in the tables associated with the particular characteristic.

### Illustration of the Computation of the Standard Error of an Estimated Number

Suppose there were an estimated 37,397,000 persons age 16 years old and older who either fished or hunted in the United States in 2011. Using formula (1) with the parameters  $a = -0.000070$  and  $b = 16,823$  from table D-2, the approximate standard error of the estimated number of 37,397,000 sportspersons age 16 years old and older is

$$s_x = \sqrt{-0.000070 * 37,397,000^2 + 16,823 * 37,397,000} = 728,857$$

The 95-percent confidence interval for the estimated number of sportspersons 16 years old and older is from 35,968,000 to 38,826,000, i.e.,  $37,397,000 \pm 1.96 \times 728,857$ . Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 95 percent of all possible samples.

Suppose there were an estimated 13,674,000 hunters age 16 years old and older who engaged in 281,884,000 days of participation in 2011. Using formula (2) with the parameters  $a = -0.000284$ ,  $b = -127,863$ , and  $c = 46,699$  from table D-2, the approximate standard error on 281,884,000 estimated days on an estimated base of 13,674,000 hunters is

$$s_x = \sqrt{-0.000284 * 281,884,000^2 - 127,863 * 281,884,000 + \frac{46,699 * 281,884,000^2}{13,674,000}} = 14,586,000$$

The 95-percent confidence interval on the estimate of 281,884,000 days is from 253,295,000 to 310,473,000, i.e.,  $281,884,000 \pm 1.96 \times 14,586,000$ . Again, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 95 percent of all possible samples.

*Standard Errors of Estimated Percentages.* The reliability of an estimated percentage, computed using sample data for both numerator and denominator, depends on the size of the percentage and its base. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. When the numerator and the denominator of the percentage are in different categories, use the parameter in the tables indicated by the numerator.

The approximate standard error,  $s_{x,p}$ , can be obtained by use of the formula

$$s_{x,p} = \sqrt{\frac{bp(100 - p)}{x}} \quad (3)$$

Here,  $x$  is the total number of sportspersons, hunters, etc., which is the base of the percentage;  $p$  is the percentage; and  $b$  is the parameter in the tables associated with the characteristic in the numerator of the percentage.

### Illustration of the Computation of the Standard Error of an Estimated Percentage

Suppose there were an estimated 13,674,000 hunters age 16 years old and older of whom 18.9 percent hunted migratory birds. From table D-2, the appropriate  $b$  parameter is 15,798. Using formula (3), the approximate standard error on the estimate of 18.9 percent is

$$s_{x,p} = \sqrt{\frac{15,798 * 18.9 * (100 - 18.9)}{13,674,000}} = 1.33$$

Consequently, the 95-percent confidence interval for the estimate percentage of migratory bird hunters 16 years old and older is from 16.3 percent to 21.5 percent, i.e.,  $18.9 \pm 1.96 \times 1.33$ .

*Standard Error of a Difference.* The standard error of the difference between two sample estimates is approximately equal to

$$s_{x-y} = \sqrt{s_x^2 + s_y^2} \quad (4)$$

where  $s_x$  and  $s_y$  are the standard errors of the estimates  $x$  and  $y$ . The estimates can be numbers, percentages, ratios, etc. This will represent the actual standard error quite accurately for the difference between estimates of the same characteristic in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. However, if there is a high positive (negative) correlation between the two characteristics, the formula will overestimate (underestimate) the true standard error.

### Illustration of the Computation of the Standard Error of a Difference

Suppose there were an estimated 13,608,000 females in the age range of 18-24 of whom 726,000 or 5.3 percent were sportspersons. Similarly, suppose there were an estimated 12,909,000 males in the same age range of whom 2,160,000 or 16.7 percent were sportspersons. The apparent difference between the percentage of female and male sportspersons is 11.4 percent. Using formula (3) and the appropriate  $b$  parameter from table D-2, the approximate standard errors of 5.3 percent and 16.7 percent are 0.79 and 1.35, respectively. Using formula (4), the approximate standard error of the estimated difference of 11.4 percent is

$$s_{x-y} = \sqrt{0.79^2 + 1.35^2} = 1.56$$

The 95-percent confidence interval on the difference between 18- to 24-year-old female and male sportspersons is from 8.3 to 14.5, i.e.,  $11.4 \pm 1.96 \times 1.56$ . Since the interval does not contain zero, we can conclude with 95 percent confidence that the percentage of 18- to 24-year-old female sportspersons is less than the percentage of 18- to 24-year-old male sportspersons.

*Standard Errors of Estimated Averages.* Certain mean values for sportspersons, anglers, etc., shown in the report were calculated as the ratio of two numbers. For example, average days per angler is calculated as:

$$\frac{x}{y} = \frac{\text{total days}}{\text{total anglers}}$$

Standard errors for these averages may be approximated by the use of formula (5) below.

$$s_{x/y} = \frac{x}{y} \sqrt{\left[\frac{s_x}{x}\right]^2 + \left[\frac{s_y}{y}\right]^2 - 2r \frac{s_x s_y}{xy}} \quad (5)$$

In formula (5),  $r$  represents the correlation coefficient between the numerator and the denominator of the estimate. In the above formula, use 0.7 as an estimate of  $r$ .

### Illustration of the Computation of the Standard Error of an Estimated Average

Suppose that the estimated number of the average days per angler age 16 years old and older for all fishing was 16.7 days. Using formulas (1) and (2) above, we compute the standard error on total days, 553,841,000, and total anglers, 33,112,000, to be 20,329,124 and 693,033, respectively. The approximate standard error on the estimated average of 16.7 days is

$$s_{x/y} = \frac{553,841,000}{33,112,000} \sqrt{\left[\frac{20,329,124}{553,841,000}\right]^2 + \left[\frac{693,033}{33,112,000}\right]^2 - 2 * 0.7 \frac{20,329,124 * 693,033}{553,841,000 * 33,112,000}} = 0.45$$

Therefore, the 95-percent confidence interval on the estimated average of 16.7 days is from 15.8 to 17.6, i.e.,  $16.7 \pm 1.96 \times 0.45$ .

**Table D-1. Approximate Standard Errors of Resident Anglers, Days of Fishing by State Residents, and Expenditures for Fishing by State Residents**

(Numbers in thousands)

| State          | Participation |                | Spenders |                | Days     |                | Expenditures in dollars |                |
|----------------|---------------|----------------|----------|----------------|----------|----------------|-------------------------|----------------|
|                | Estimate      | Standard error | Estimate | Standard error | Estimate | Standard error | Estimate                | Standard error |
| Alabama        | 516           | 57             | 504      | 57             | 10,176   | 1,516          | 357,716                 | 90,155         |
| Alaska         | 211           | 16             | 210      | 16             | 3,121    | 702            | 287,528                 | 82,272         |
| Arizona        | 586           | 71             | 576      | 71             | 5,283    | 1,014          | 815,074                 | 238,352        |
| Arkansas       | 467           | 73             | 429      | 70             | 15,141   | 4,103          | 430,488                 | 194,120        |
| California     | 1,700         | 127            | 1,668    | 126            | 25,662   | 4,251          | 2,619,043               | 581,301        |
| Colorado       | 666           | 56             | 660      | 56             | 8,726    | 1,330          | 650,321                 | 148,756        |
| Connecticut    | 340           | 36             | 335      | 36             | 5,713    | 979            | 631,306                 | 180,264        |
| Delaware       | 92            | 9              | 84       | 9              | 1,681    | 774            | 61,386                  | 24,029         |
| Florida        | 1,991         | 137            | 1,869    | 134            | 49,500   | 9,419          | 3,815,000               | 749,904        |
| Georgia        | 844           | 86             | 796      | 84             | 9,061    | 1,162          | 729,439                 | 279,889        |
| Hawaii         | 107           | 10             | 99       | 10             | 1,739    | 297            | 183,249                 | 60,334         |
| Idaho          | 289           | 51             | 258      | 49             | 2,424    | 688            | 222,276                 | 102,475        |
| Illinois       | 1,236         | 135            | 1,189    | 133            | 15,614   | 1,664          | 1,476,381               | 279,816        |
| Indiana        | 786           | 82             | 757      | 81             | 21,542   | 6,448          | 674,233                 | 206,854        |
| Iowa           | 522           | 45             | 506      | 44             | 6,909    | 1,283          | 439,534                 | 152,777        |
| Kansas         | 434           | 47             | 382      | 45             | 4,694    | 1,260          | 295,116                 | 106,038        |
| Kentucky       | 492           | 68             | 459      | 66             | 10,245   | 2,494          | 765,584                 | 209,457        |
| Louisiana      | 733           | 86             | 642      | 82             | 18,351   | 6,126          | 619,657                 | 225,911        |
| Maine          | 197           | 23             | 191      | 23             | 2,915    | 646            | 175,364                 | 54,699         |
| Maryland       | 410           | 43             | 390      | 42             | 5,676    | 1,121          | 754,959                 | 223,847        |
| Massachusetts  | 457           | 31             | 436      | 31             | 9,166    | 1,823          | 501,764                 | 111,876        |
| Michigan       | 1,465         | 155            | 1,385    | 152            | 26,744   | 4,434          | 2,300,485               | 699,438        |
| Minnesota      | 1,328         | 131            | 1,301    | 130            | 24,903   | 3,462          | 2,225,059               | 585,244        |
| Mississippi    | 603           | 81             | 557      | 79             | 8,700    | 1,493          | 501,906                 | 200,464        |
| Missouri       | 870           | 66             | 814      | 64             | 14,448   | 1,854          | 550,723                 | 110,848        |
| Montana        | 192           | 27             | 189      | 27             | 3,263    | 909            | 487,763                 | 213,977        |
| Nebraska       | 197           | 20             | 193      | 20             | 2,924    | 684            | 200,150                 | 67,480         |
| Nevada         | 156           | 18             | 154      | 17             | 2,044    | 336            | 203,273                 | 49,581         |
| New Hampshire  | 164           | 21             | 159      | 20             | 4,155    | 1,448          | 283,341                 | 106,961        |
| New Jersey     | 679           | 54             | 633      | 53             | 9,578    | 1,856          | 1,319,455               | 254,972        |
| New Mexico     | 232           | 28             | 224      | 28             | 3,868    | 646            | 397,208                 | 92,655         |
| New York       | 1,809         | 164            | 1,699    | 159            | 29,112   | 6,898          | 2,175,971               | 877,680        |
| North Carolina | 1,307         | 100            | 1,196    | 96             | 23,491   | 3,757          | 1,537,074               | 325,409        |
| North Dakota   | (NA)          | (NA)           | (NA)     | (NA)           | (NA)     | (NA)           | (NA)                    | (NA)           |
| Ohio           | 1,435         | 132            | 1,287    | 126            | 19,116   | 2,906          | 2,211,184               | 838,249        |
| Oklahoma       | 744           | 89             | 682      | 87             | 8,661    | 1,585          | 846,818                 | 292,371        |
| Oregon         | 386           | 48             | 386      | 48             | 4,673    | 897            | 430,736                 | 79,315         |
| Pennsylvania   | 1,008         | 129            | 849      | 119            | 9,926    | 2,581          | 429,991                 | 112,189        |
| Rhode Island   | 93            | 7              | 88       | 7              | 1,764    | 416            | 106,798                 | 31,147         |
| South Carolina | 574           | 67             | 545      | 66             | 11,459   | 2,626          | 926,021                 | 574            |
| South Dakota   | 164           | 27             | 164      | 27             | 3,649    | 933            | 187,889                 | 70,945         |
| Tennessee      | 833           | 83             | 799      | 82             | 17,834   | 5,611          | 1,437,290               | 382,971        |
| Texas          | 2,355         | 251            | 2,079    | 238            | 34,735   | 12,578         | 1,794,236               | 472,996        |
| Utah           | 351           | 34             | 345      | 34             | 5,612    | 991            | 397,422                 | 109,330        |
| Vermont        | 105           | 12             | 103      | 12             | 1,885    | 466            | 68,612                  | 36,752         |
| Virginia       | 707           | 61             | 663      | 59             | 10,342   | 3,032          | 956,767                 | 218,304        |
| Washington     | 914           | 73             | 893      | 72             | 17,818   | 5,660          | 1,341,601               | 369,846        |
| West Virginia  | 239           | 27             | 237      | 27             | 4,767    | 1,239          | 469,462                 | 204,862        |
| Wisconsin      | 938           | 99             | 938      | 99             | 15,320   | 2,946          | 1,091,412               | 301,945        |
| Wyoming        | 115           | 13             | 113      | 13             | 2,170    | 400            | 132,153                 | 33,316         |

(NA) Not available.

Note: Detail does not add to total because of multiple responses. U.S. totals include responses from participants residing in the District of Columbia.

**Table D–2. Approximate Standard Errors of Resident Hunters, Days of Hunting by State Residents, and Expenditures for Hunting by State Residents**

(Numbers in thousands)

| State          | Participation |                | Spenders |                | Days     |                | Expenditures in dollars |                |
|----------------|---------------|----------------|----------|----------------|----------|----------------|-------------------------|----------------|
|                | Estimate      | Standard error | Estimate | Standard error | Estimate | Standard error | Estimate                | Standard error |
| Alabama        | 492           | 53             | 455      | 51             | 10,393   | 1,625          | 848,304                 | 226,332        |
| Alaska         | 106           | 11             | 106      | 11             | 1,096    | 225            | 372,008                 | 123,983        |
| Arizona        | 259           | 43             | 259      | 43             | 3,164    | 1,202          | 385,741                 | 139,174        |
| Arkansas       | 320           | 73             | 316      | 73             | 10,712   | 2,714          | 998,151                 | 472,372        |
| California     | 467           | 51             | 451      | 50             | 8,036    | 1,562          | 1,273,678               | 342,349        |
| Colorado       | 160           | 24             | 160      | 24             | 1,806    | 552            | 318,534                 | 107,481        |
| Connecticut    | 82            | 13             | 82       | 13             | 1,348    | 602            | 399,943                 | 181,076        |
| Delaware       | 23            | 3              | 21       | 3              | 453      | 263            | 62,294                  | 30,877         |
| Florida        | 329           | 42             | 320      | 41             | 6,693    | 1,908          | 1,034,465               | 305,531        |
| Georgia        | 309           | 45             | 303      | 44             | 8,318    | 2,844          | 834,292                 | 383,021        |
| Hawaii         | 23            | 4              | 23       | 4              | 786      | 328            | 56,296                  | 24,121         |
| Idaho          | 162           | 27             | 162      | 27             | 2,009    | 1,012          | 187,077                 | 90,133         |
| Illinois       | 512           | 100            | 507      | 99             | 7,786    | 1,648          | 1,312,095               | 388,638        |
| Indiana        | 377           | 63             | 368      | 62             | 10,926   | 3,538          | 240,594                 | 86,045         |
| Iowa           | 216           | 31             | 211      | 31             | 4,163    | 1,497          | 447,229                 | 168,993        |
| Kansas         | 177           | 30             | 176      | 30             | 4,193    | 1,690          | 306,072                 | 120,215        |
| Kentucky       | 316           | 52             | 312      | 51             | 11,979   | 3,410          | 777,711                 | 265,997        |
| Louisiana      | 291           | 36             | 276      | 35             | 6,738    | 2,464          | 744,000                 | 283,531        |
| Maine          | 141           | 21             | 134      | 20             | 2,410    | 422            | 169,093                 | 65,985         |
| Maryland       | 88            | 19             | 88       | 19             | 1,418    | 448            | 282,265                 | 122,867        |
| Massachusetts  | 66            | 11             | 66       | 11             | 1,403    | 406            | 147,062                 | 53,808         |
| Michigan       | 507           | 84             | 507      | 84             | 11,358   | 2,280          | 2,514,885               | 766,362        |
| Minnesota      | 475           | 53             | 468      | 52             | 8,053    | 1,973          | 1,151,738               | 361,430        |
| Mississippi    | 436           | 70             | 436      | 70             | 8,755    | 2,087          | 828,282                 | 336,525        |
| Missouri       | 495           | 54             | 475      | 53             | 9,716    | 1,254          | 850,196                 | 248,688        |
| Montana        | 108           | 20             | 107      | 20             | 2,158    | 444            | 524,339                 | 196,460        |
| Nebraska       | 115           | 16             | 115      | 16             | 1,584    | 378            | 561,205                 | 213,003        |
| Nevada         | 49            | 10             | 49       | 10             | 897      | 230            | 206,443                 | 87,845         |
| New Hampshire  | 44            | 6              | 43       | 6              | 1,330    | 691            | 56,175                  | 25,777         |
| New Jersey     | 115           | 15             | 110      | 15             | 2,928    | 1,035          | 237,750                 | 71,830         |
| New Mexico     | 68            | 8              | 67       | 8              | 911      | 479            | 132,875                 | 56,649         |
| New York       | 739           | 89             | 733      | 89             | 17,741   | 4,707          | 1,512,876               | 716,716        |
| North Carolina | 317           | 53             | 295      | 51             | 8,177    | 1,850          | 640,268                 | 211,010        |
| North Dakota   | (NA)          | (NA)           | (NA)     | (NA)           | (NA)     | (NA)           | (NA)                    | (NA)           |
| Ohio           | 528           | 78             | 519      | 77             | 9,066    | 1,855          | 808,017                 | 405,030        |
| Oklahoma       | 219           | 40             | 169      | 35             | 5,201    | 2,147          | 351,617                 | 188,965        |
| Oregon         | 181           | 32             | 178      | 32             | 2,264    | 512            | 226,856                 | 53,705         |
| Pennsylvania   | 703           | 91             | 687      | 90             | 17,826   | 5,097          | 995,487                 | 277,704        |
| Rhode Island   | 17            | 2              | 17       | 2              | 318      | 114            | 28,517                  | 11,038         |
| South Carolina | 238           | 36             | 238      | 36             | 4,255    | 1,077          | 548,133                 | 247,614        |
| South Dakota   | 133           | 28             | 133      | 28             | 2,901    | 1,016          | 255,034                 | 98,606         |
| Tennessee      | 286           | 32             | 286      | 32             | 9,603    | 4,535          | 408,816                 | 149,738        |
| Texas          | 1,080         | 148            | 1,036    | 145            | 19,905   | 7,969          | 1,751,718               | 621,465        |
| Utah           | 161           | 25             | 161      | 25             | 2,643    | 615            | 370,056                 | 112,788        |
| Vermont        | 71            | 10             | 69       | 10             | 1,618    | 476            | 323,047                 | 195,225        |
| Virginia       | 354           | 63             | 352      | 63             | 10,306   | 3,522          | 928,608                 | 252,714        |
| Washington     | 218           | 25             | 218      | 25             | 2,756    | 903            | 506,433                 | 168,332        |
| West Virginia  | 211           | 23             | 211      | 23             | 3,254    | 686            | 446,272                 | 167,171        |
| Wisconsin      | 763           | 94             | 759      | 94             | 10,219   | 2,142          | 2,262,062               | 666,452        |
| Wyoming        | 76            | 12             | 76       | 12             | 1,171    | 200            | 152,617                 | 40,927         |

(NA) Not available.

Note: Detail does not add to total because of multiple responses. U.S. totals include responses from participants residing in the District of Columbia.

**Table D-3. Approximate Standard Errors of Resident Away-From-Home Participants, Days of Away-From-Home Participants by State Residents, and Trip-Related Expenditures for Away-From-Home Activities by State Residents**

(Numbers in thousands)

| State          | Participation |                | Spenders |                | Days     |                | Expenditures in dollars |                |
|----------------|---------------|----------------|----------|----------------|----------|----------------|-------------------------|----------------|
|                | Estimate      | Standard error | Estimate | Standard error | Estimate | Standard error | Estimate                | Standard error |
| Alabama        | 340           | 63             | 171      | 46             | 1,526    | 710            | 93,185                  | 55,424         |
| Alaska         | 118           | 14             | 100      | 13             | 1,781    | 530            | 51,579                  | 20,299         |
| Arizona        | 534           | 57             | 489      | 54             | 9,488    | 2,322          | 433,685                 | 132,310        |
| Arkansas       | 120           | 32             | 102      | 29             | 1,354    | 613            | 24,866                  | 15,765         |
| California     | 2,675         | 226            | 2,382    | 215            | 28,143   | 4,396          | 2,331,567               | 573,878        |
| Colorado       | 621           | 79             | 594      | 78             | 5,702    | 1,569          | 506,713                 | 190,036        |
| Connecticut    | 385           | 47             | 348      | 45             | 9,821    | 2,190          | 494,628                 | 115,287        |
| Delaware       | 71            | 8              | 64       | 8              | 1,622    | 476            | 95,861                  | 31,598         |
| Florida        | 1,363         | 161            | 1,239    | 154            | 11,434   | 2,060          | 1,206,226               | 382,981        |
| Georgia        | 1,008         | 147            | 980      | 146            | 34,530   | 22,650         | 1,605,397               | 844,468        |
| Hawaii         | 103           | 14             | 90       | 13             | 2,824    | 967            | 51,761                  | 19,174         |
| Idaho          | 220           | 41             | 207      | 40             | 3,610    | 1,889          | 81,801                  | 42,573         |
| Illinois       | 652           | 86             | 455      | 73             | 6,149    | 1,873          | 526,970                 | 203,522        |
| Indiana        | 477           | 66             | 408      | 61             | 3,483    | 827            | 404,132                 | 192,082        |
| Iowa           | 215           | 40             | 192      | 38             | 3,248    | 1,272          | 227,914                 | 48,811         |
| Kansas         | 168           | 35             | 135      | 32             | 1,157    | 338            | 48,036                  | 16,183         |
| Kentucky       | 298           | 45             | 272      | 43             | 2,686    | 1,010          | 93,567                  | 39,353         |
| Louisiana      | 221           | 34             | 192      | 32             | 4,993    | 2,286          | 442,317                 | 278,361        |
| Maine          | 110           | 20             | 91       | 18             | 4,792    | 2,262          | 49,014                  | 18,927         |
| Maryland       | 392           | 35             | 351      | 33             | 4,498    | 1,142          | 293,681                 | 95,705         |
| Massachusetts  | 453           | 48             | 404      | 45             | 9,269    | 1,970          | 272,223                 | 60,839         |
| Michigan       | 855           | 134            | 806      | 131            | 9,981    | 3,136          | 390,960                 | 137,694        |
| Minnesota      | 483           | 98             | 362      | 86             | 7,522    | 2,719          | 468,161                 | 186,975        |
| Mississippi    | 135           | 38             | 110      | 35             | 4,364    | 2,072          | 68,752                  | 23,862         |
| Missouri       | 622           | 85             | 605      | 84             | 9,364    | 2,829          | 427,866                 | 132,714        |
| Montana        | 96            | 16             | 78       | 15             | 1,409    | 473            | 143,443                 | 54,829         |
| Nebraska       | 150           | 26             | 146      | 26             | 2,564    | 1,099          | 145,444                 | 77,436         |
| Nevada         | 191           | 43             | 165      | 41             | 2,522    | 612            | 173,529                 | 62,184         |
| New Hampshire  | 89            | 14             | 84       | 14             | 1,357    | 323            | 59,358                  | 14,898         |
| New Jersey     | 564           | 53             | 476      | 49             | 8,083    | 1,859          | 576,828                 | 189,985        |
| New Mexico     | 200           | 29             | 166      | 26             | 4,589    | 1,403          | 131,576                 | 47,280         |
| New York       | 1,263         | 210            | 1,136    | 200            | 25,120   | 7,037          | 1,514,114               | 647,118        |
| North Carolina | 505           | 115            | 456      | 109            | 8,750    | 3,254          | 615,949                 | 230,280        |
| North Dakota   | (NA)          | (NA)           | (NA)     | (NA)           | (NA)     | (NA)           | (NA)                    | (NA)           |
| Ohio           | 730           | 78             | 695      | 76             | 7,285    | 1,832          | 188,675                 | 64,962         |
| Oklahoma       | 411           | 43             | 394      | 42             | 3,128    | 767            | 120,334                 | 59,569         |
| Oregon         | 401           | 50             | 377      | 48             | 6,515    | 2,090          | 507,648                 | 186,210        |
| Pennsylvania   | 734           | 158            | 493      | 131            | 7,801    | 2,708          | 86,767                  | 33,193         |
| Rhode Island   | 66            | 9              | 65       | 9              | 988      | 312            | 88,059                  | 30,587         |
| South Carolina | 219           | 58             | 198      | 55             | 3,138    | 1,278          | 145,758                 | 55,107         |
| South Dakota   | 108           | 13             | 92       | 12             | 1,151    | 493            | 35,834                  | 13,244         |
| Tennessee      | 682           | 147            | 630      | 142            | 6,346    | 2,031          | 306,802                 | 78,400         |
| Texas          | 977           | 158            | 879      | 150            | 10,885   | 4,487          | 335,013                 | 117,313        |
| Utah           | 263           | 35             | 252      | 34             | 2,985    | 579            | 129,357                 | 44,742         |
| Vermont        | 85            | 16             | 65       | 14             | 2,042    | 539            | 24,749                  | 6,911          |
| Virginia       | 553           | 83             | 518      | 81             | 4,854    | 1,049          | 354,336                 | 110,249        |
| Washington     | 693           | 122            | 659      | 119            | 12,377   | 3,413          | 415,979                 | 121,660        |
| West Virginia  | 255           | 77             | 251      | 76             | 3,337    | 1,742          | 132,487                 | 81,458         |
| Wisconsin      | 453           | 85             | 327      | 74             | 5,737    | 2,848          | 268,866                 | 156,056        |
| Wyoming        | 104           | 11             | 95       | 11             | 1,276    | 413            | 51,858                  | 18,170         |

(NA) Not available.

Note: Detail does not add to total because of multiple responses. U.S. totals include responses from participants residing in the District of Columbia.

**Table D-4. Parameters a and b for Calculating Approximate Standard Errors of Sportspersons, Anglers, Hunters, and Wildlife-Watching Participants**

(These parameters are to be used only to calculate estimates of standard errors for characteristics developed from the screening sample)

| State                                 | 6 years old and older |               | 6 to 15 years old only |               |
|---------------------------------------|-----------------------|---------------|------------------------|---------------|
|                                       | a                     | b             | a                      | b             |
| <b>United States, total</b> . . . . . | <b>-0.000043</b>      | <b>12,272</b> | <b>-0.000387</b>       | <b>15,783</b> |
| Alabama . . . . .                     | -0.001517             | 6,503         | -0.009621              | 5,974         |
| Alaska . . . . .                      | -0.001275             | 795           | -0.010120              | 986           |
| Arizona . . . . .                     | -0.000765             | 4,622         | -0.003646              | 3,484         |
| Arkansas . . . . .                    | -0.001766             | 4,647         | -0.014655              | 5,761         |
| California . . . . .                  | -0.000236             | 7,936         | -0.002632              | 13,492        |
| Colorado . . . . .                    | -0.000805             | 3,719         | -0.006685              | 4,508         |
| Connecticut . . . . .                 | -0.000429             | 1,384         | -0.004817              | 2,149         |
| Delaware . . . . .                    | -0.000758             | 614           | -0.009410              | 1,051         |
| Florida . . . . .                     | -0.000354             | 6,040         | -0.004700              | 10,400        |
| Georgia . . . . .                     | -0.000756             | 6,717         | -0.003496              | 4,981         |
| Hawaii . . . . .                      | -0.000603             | 694           | -0.007618              | 1,184         |
| Idaho . . . . .                       | -0.001708             | 2,389         | -0.017208              | 3,904         |
| Illinois . . . . .                    | -0.000633             | 7,425         | -0.005382              | 9,348         |
| Indiana . . . . .                     | -0.000849             | 4,951         | -0.012557              | 10,925        |
| Iowa . . . . .                        | -0.000988             | 2,714         | -0.008723              | 3,356         |
| Kansas . . . . .                      | -0.001014             | 2,584         | -0.009102              | 3,499         |
| Kentucky . . . . .                    | -0.001476             | 5,802         | -0.009316              | 5,165         |
| Louisiana . . . . .                   | -0.000840             | 3,418         | -0.014093              | 8,744         |
| Maine . . . . .                       | -0.001824             | 2,210         | -0.016808              | 2,441         |
| Maryland . . . . .                    | -0.000570             | 2,976         | -0.008290              | 6,120         |
| Massachusetts . . . . .               | -0.000394             | 2,406         | -0.003000              | 2,365         |
| Michigan . . . . .                    | -0.001153             | 10,458        | -0.009872              | 12,626        |
| Minnesota . . . . .                   | -0.001905             | 9,166         | -0.015878              | 10,749        |
| Mississippi . . . . .                 | -0.001191             | 3,137         | -0.012208              | 5,053         |
| Missouri . . . . .                    | -0.000858             | 4,672         | -0.004859              | 3,768         |
| Montana . . . . .                     | -0.001690             | 1,418         | -0.015626              | 1,816         |
| Nebraska . . . . .                    | -0.001546             | 2,519         | -0.015670              | 3,805         |
| Nevada . . . . .                      | -0.000431             | 1,029         | -0.007455              | 2,739         |
| New Hampshire . . . . .               | -0.000920             | 1,125         | -0.015100              | 2,356         |
| New Jersey . . . . .                  | -0.000359             | 2,868         | -0.003386              | 3,831         |
| New Mexico . . . . .                  | -0.000706             | 1,294         | -0.006025              | 1,703         |
| New York . . . . .                    | -0.000416             | 7,444         | -0.005818              | 13,956        |
| North Carolina . . . . .              | -0.000905             | 7,706         | -0.008882              | 11,091        |
| North Dakota . . . . .                | (NA)                  | (NA)          | (NA)                   | (NA)          |
| Ohio . . . . .                        | -0.000807             | 8,454         | -0.006870              | 10,159        |
| Oklahoma . . . . .                    | -0.001132             | 3,772         | -0.008501              | 4,297         |
| Oregon . . . . .                      | -0.001359             | 4,806         | -0.010991              | 5,226         |
| Pennsylvania . . . . .                | -0.000593             | 6,843         | -0.005995              | 9,017         |
| Rhode Island . . . . .                | -0.000308             | 300           | -0.003287              | 405           |
| South Carolina . . . . .              | -0.000739             | 3,060         | -0.005611              | 3,303         |
| South Dakota . . . . .                | -0.001620             | 1,194         | -0.034414              | 3,643         |
| Tennessee . . . . .                   | -0.000730             | 4,204         | -0.003532              | 2,887         |
| Texas . . . . .                       | -0.000807             | 18,178        | -0.004712              | 18,120        |
| Utah . . . . .                        | -0.001050             | 2,638         | -0.008515              | 4,056         |
| Vermont . . . . .                     | -0.001401             | 811           | -0.014942              | 1,003         |
| Virginia . . . . .                    | -0.000533             | 3,805         | -0.004771              | 4,816         |
| Washington . . . . .                  | -0.000640             | 3,938         | -0.006644              | 5,691         |
| West Virginia . . . . .               | -0.001618             | 2,714         | -0.015297              | 3,266         |
| Wisconsin . . . . .                   | -0.002449             | 12,656        | -0.016762              | 11,855        |
| Wyoming . . . . .                     | -0.002057             | 1,013         | -0.029622              | 2,038         |

(NA) Not available.

**Table D-5. Parameters a and b for Calculating Approximate Standard Errors for Levels for the Detailed Sportspersons Sample**

| State                                 | Sportspersons and anglers 16 years old and older |               | Hunters 16 years old and older |               |
|---------------------------------------|--|---------------|--------------------------------|---------------|
|                                       | a  | b             | a                              | b             |
| <b>United States, total</b> . . . . . | <b>-0.00070</b>                                  | <b>16,823</b> | <b>-0.00066</b>                | <b>15,798</b> |
| Alabama . . . . .                     | -0.002013  | 7,375         | -0.001789                      | 6,556         |
| Alaska . . . . .                      | -0.003854  | 2,028         | -0.002828                      | 1,488         |
| Arizona . . . . .                     | -0.001928  | 9,801         | -0.001483                      | 7,539         |
| Arkansas . . . . .                    | -0.006403  | 14,328        | -0.008765                      | 19,615        |
| California . . . . .                  | -0.000352  | 10,066        | -0.000199                      | 5,673         |
| Colorado . . . . .                    | -0.001432  | 5,651         | -0.000959                      | 3,784         |
| Connecticut . . . . .                 | -0.001549  | 4,309         | -0.000814                      | 2,264         |
| Delaware . . . . .                    | -0.001485  | 1,038         | -0.000692                      | 484           |
| Florida . . . . .                     | -0.000737  | 10,943        | -0.000364                      | 5,407         |
| Georgia . . . . .                     | -0.001334  | 9,948         | -0.000897                      | 6,692         |
| Hawaii . . . . .                      | -0.001157  | 1,151         | -0.000846                      | 842           |
| Idaho . . . . .                       | -0.010247  | 12,009        | -0.004564                      | 5,348         |
| Illinois . . . . .                    | -0.001679  | 16,769        | -0.002058                      | 20,557        |
| Indiana . . . . .                     | -0.002038  | 10,118        | -0.002294                      | 11,391        |
| Iowa . . . . .                        | -0.002068  | 4,887         | -0.002076                      | 4,905         |
| Kansas . . . . .                      | -0.002932  | 6,342         | -0.002590                      | 5,602         |
| Kentucky . . . . .                    | -0.003245  | 10,954        | -0.002763                      | 9,328         |
| Louisiana . . . . .                   | -0.003723  | 12,838        | -0.001421                      | 4,899         |
| Maine . . . . .                       | -0.003040  | 3,241         | -0.003340                      | 3,561         |
| Maryland . . . . .                    | -0.001084  | 4,855         | -0.000949                      | 4,252         |
| Massachusetts . . . . .               | -0.000437  | 2,325         | -0.000367                      | 1,950         |
| Michigan . . . . .                    | -0.002590  | 20,167        | -0.001899                      | 14,792        |
| Minnesota . . . . .                   | -0.004611  | 19,060        | -0.001598                      | 6,606         |
| Mississippi . . . . .                 | -0.006731  | 14,944        | -0.006339                      | 14,075        |
| Missouri . . . . .                    | -0.001315  | 6,139         | -0.001437                      | 6,706         |
| Montana . . . . .                     | -0.006507  | 5,056         | -0.005775                      | 4,488         |
| Nebraska . . . . .                    | -0.001667  | 2,313         | -0.001801                      | 2,498         |
| Nevada . . . . .                      | -0.001056  | 2,136         | -0.001108                      | 2,241         |
| New Hampshire . . . . .               | -0.002879  | 3,070         | -0.000896                      | 956           |
| New Jersey . . . . .                  | -0.000704  | 4,827         | -0.000287                      | 1,967         |
| New Mexico . . . . .                  | -0.002617  | 4,059         | -0.000648                      | 1,006         |
| New York . . . . .                    | -0.001079  | 16,730        | -0.000725                      | 11,247        |
| North Carolina . . . . .              | -0.001281  | 9,305         | -0.001279                      | 9,290         |
| North Dakota . . . . .                | (NA)   | (NA)          | (NA)                           | (NA)          |
| Ohio . . . . .                        | -0.001605  | 14,444        | -0.001351                      | 12,159        |
| Oklahoma . . . . .                    | -0.005114  | 14,461        | -0.002771                      | 7,836         |
| Oregon . . . . .                      | -0.002276  | 6,968         | -0.001995                      | 6,108         |
| Pennsylvania . . . . .                | -0.001820  | 18,266        | -0.001269                      | 12,740        |
| Rhode Island . . . . .                | -0.000764  | 649           | -0.000291                      | 247           |
| South Carolina . . . . .              | -0.002655  | 9,438         | -0.001677                      | 5,961         |
| South Dakota . . . . .                | -0.009550  | 6,028         | -0.011761                      | 7,424         |
| Tennessee . . . . .                   | -0.002018  | 9,981         | -0.000754                      | 3,728         |
| Texas . . . . .                       | -0.001644  | 30,704        | -0.001150                      | 21,490        |
| Utah . . . . .                        | -0.001969  | 4,009         | -0.002043                      | 4,159         |
| Vermont . . . . .                     | -0.003247  | 1,662         | -0.003046                      | 1,559         |
| Virginia . . . . .                    | -0.000965  | 5,920         | -0.001933                      | 11,864        |
| Washington . . . . .                  | -0.001320  | 6,986         | -0.000561                      | 2,971         |
| West Virginia . . . . .               | -0.002455  | 3,594         | -0.001928                      | 2,822         |
| Wisconsin . . . . .                   | -0.002985  | 13,311        | -0.003141                      | 14,006        |
| Wyoming . . . . .                     | -0.004945  | 2,095         | -0.005055                      | 2,141         |

(NA) Not available.

**Table D-6. Parameters a, b, and c for Calculating Approximate Standard Errors for Expenditures for the Detailed Sportspersons Sample**

| State                             | Sportspersons and anglers 16 years old and older |                 |               | Hunters 16 years old and older |                 |               |
|-----------------------------------|--|-----------------|---------------|--------------------------------|-----------------|---------------|
|                                   | a  | b               | c             | a                              | b               | c             |
| <b>United States, total</b> ..... | <b>0.001159</b>                                  | <b>-575,615</b> | <b>45,670</b> | <b>0.001923</b>                | <b>-978,460</b> | <b>44,416</b> |
| Alabama .....                     | 0.021918   | -163,227        | 21,197        | 0.026237                       | -310,700        | 20,618        |
| Alaska .....                      | 0.068721   | -3,823          | 2,765         | 0.086885                       | -80,157         | 2,587         |
| Arizona .....                     | 0.072204   | -64,996         | 7,713         | 0.112668                       | 32,711          | 4,512         |
| Arkansas .....                    | 0.190512   | -51,366         | 5,554         | 0.208269                       | 3,305           | 4,958         |
| California .....                  | 0.041958   | 323,332         | 11,979        | 0.056429                       | 1,177,647       | 6,717         |
| Colorado .....                    | 0.038767   | 15,704          | 8,931         | 0.080446                       | -49,174         | 5,370         |
| Connecticut .....                 | 0.062963   | -54,211         | 6,250         | 0.156423                       | -403,680        | 4,065         |
| Delaware .....                    | 0.138101   | -7,091          | 1,280         | 0.206480                       | -291            | 823           |
| Florida .....                     | 0.031125   | 129,668         | 13,980        | 0.044416                       | -273,423        | 13,786        |
| Georgia .....                     | 0.133758   | -35,054         | 10,761        | 0.180457                       | -30,025         | 9,196         |
| Hawaii .....                      | 0.099271   | -1,810          | 905           | 0.154210                       | -1,865          | 677           |
| Idaho .....                       | 0.197816   | -5,230          | 3,806         | 0.216778                       | 170,971         | 2,339         |
| Illinois .....                    | 0.016086   | -95,430         | 23,661        | 0.059422                       | -369,151        | 14,496        |
| Indiana .....                     | 0.084408   | 56,304          | 7,293         | 0.113115                       | 42,035          | 5,378         |
| Iowa .....                        | 0.110741   | -6,756          | 5,107         | 0.110417                       | -42,038         | 6,849         |
| Kansas .....                      | 0.119262   | -8,287          | 3,770         | 0.130458                       | -38,144         | 4,212         |
| Kentucky .....                    | 0.032291   | -262,907        | 19,693        | 0.050336                       | -549,944        | 21,014        |
| Louisiana .....                   | 0.125543   | 72,794          | 4,657         | 0.123353                       | -129,712        | 6,086         |
| Maine .....                       | 0.073133   | -64,912         | 4,685         | 0.133009                       | -24,957         | 2,602         |
| Maryland .....                    | 0.069557   | -8,036          | 7,163         | 0.119862                       | -92,688         | 6,155         |
| Massachusetts .....               | 0.041124   | 13,503          | 3,733         | 0.092555                       | -231            | 2,727         |
| Michigan .....                    | 0.071988   | -130,103        | 28,404        | 0.026267                       | -153,883        | 33,794        |
| Minnesota .....                   | 0.056048   | -43,079         | 17,112        | 0.064508                       | -189,054        | 15,975        |
| Mississippi .....                 | 0.143495   | -50,131         | 8,984         | 0.146486                       | 14,053          | 8,097         |
| Missouri .....                    | 0.027623   | -7,268          | 10,503        | 0.066759                       | -24,068         | 8,944         |
| Montana .....                     | 0.178611   | -16,817         | 2,622         | 0.105263                       | -209,610        | 3,801         |
| Nebraska .....                    | 0.100459   | -1,618          | 2,551         | 0.119872                       | -19,296         | 2,785         |
| Nevada .....                      | 0.040428   | -34,230         | 2,962         | 0.141457                       | -114,260        | 1,968         |
| New Hampshire .....               | 0.127497   | 6,106           | 2,383         | 0.176749                       | 14,447          | 1,443         |
| New Jersey .....                  | 0.027546   | 11,544          | 6,195         | 0.036515                       | -45,032         | 6,045         |
| New Mexico .....                  | 0.036052   | -17,835         | 4,123         | 0.147509                       | -35,750         | 2,313         |
| New York .....                    | 0.152342   | -343,859        | 17,854        | 0.209665                       | -176,671        | 10,911        |
| North Carolina .....              | 0.029116   | -209,241        | 18,945        | 0.064157                       | -163,564        | 13,190        |
| North Dakota .....                | (NA)   | (NA)            | (NA)          | (NA)                           | (NA)            | (NA)          |
| Ohio .....                        | 0.128010   | -37,131         | 20,232        | 0.216544                       | -1,019,186      | 18,675        |
| Oklahoma .....                    | 0.098427   | -170,608        | 14,307        | 0.276027                       | 126,332         | 2,101         |
| Oregon .....                      | 0.010568   | 7,416           | 9,002         | 0.011236                       | 96,792          | 7,900         |
| Pennsylvania .....                | 0.039841   | -43,889         | 24,057        | 0.037830                       | -316,859        | 27,692        |
| Rhode Island .....                | 0.077596   | -203,9579       | 657           | 0.110230                       | -39,344         | 696           |
| South Carolina .....              | 0.180012   | -120,717        | 6,857         | 0.181351                       | -87,421         | 5,445         |
| South Dakota .....                | 0.114248   | -43,160         | 4,683         | 0.102506                       | -203,831        | 6,355         |
| Tennessee .....                   | 0.051884   | -61,213         | 15,306        | 0.073335                       | -522,076        | 17,760        |
| Texas .....                       | 0.049244   | -64,415         | 42,177        | 0.077228                       | -819,919        | 50,873        |
| Utah .....                        | 0.063366   | -20,537         | 4,266         | 0.066238                       | -2,994          | 4,293         |
| Vermont .....                     | 0.271264   | -10,725         | 1,629         | 0.339375                       | -128,675        | 1,810         |
| Virginia .....                    | 0.034590   | -93,405         | 11,648        | 0.037134                       | -222,277        | 13,083        |
| Washington .....                  | 0.067952   | 22,119          | 7,169         | 0.080042                       | -119,224        | 6,687         |
| West Virginia .....               | 0.173583   | -44,746         | 4,014         | 0.117366                       | -52,107         | 4,868         |
| Wisconsin .....                   | 0.045614   | -215,022        | 29,192        | 0.057107                       | 164,685         | 22,483        |
| Wyoming .....                     | 0.037366   | -31,308         | 2,986         | 0.032006                       | -10,196         | 3,038         |

(NA) Not available.

**Table D-7. Parameters a, b, and c for Calculating Approximate Standard Errors for Days or Trips for the Detailed Sportspersons Sample**

| State                                 | Sportspersons and anglers 16 years old and older |                 |               | Hunters 16 years old and older |                 |               |
|---------------------------------------|--|-----------------|---------------|--------------------------------|-----------------|---------------|
|                                       | a  | b               | c             | a                              | b               | c             |
| <b>United States, total</b> . . . . . | <b>0.000068</b>                                  | <b>-160,414</b> | <b>51,951</b> | <b>-0.000284</b>               | <b>-127,863</b> | <b>46,699</b> |
| Alabama . . . . .                     | -0.006409  | -33,141         | 16,434        | -0.001309                      | -24,163         | 13,815        |
| Alaska . . . . .                      | 0.040044   | -1,378          | 2,306         | 0.014819                       | -3,686          | 3,262         |
| Arizona . . . . .                     | 0.010858   | -12,760         | 16,639        | 0.094988                       | -10,415         | 13,604        |
| Arkansas . . . . .                    | 0.029081   | -47,335         | 22,178        | -0.069327                      | -298,461        | 51,645        |
| California . . . . .                  | 0.018455   | 62,656          | 11,126        | 0.002617                       | 35,822          | 14,331        |
| Colorado . . . . .                    | 0.012264   | -4,831          | 7,675         | 0.057492                       | -4,094          | 6,123         |
| Connecticut . . . . .                 | 0.010321   | -20,427         | 7,687         | 0.178663                       | 1,319           | 1,609         |
| Delaware . . . . .                    | 0.202009   | -718            | 940           | 0.322859                       | -120            | 316           |
| Florida . . . . .                     | 0.030335   | -13,138         | 12,228        | 0.050279                       | -17,145         | 11,045        |
| Georgia . . . . .                     | -0.016400  | -22,749         | 29,830        | 0.034924                       | -19,534         | 26,050        |
| Hawaii . . . . .                      | 0.011790   | -1,565          | 1,950         | 0.134936                       | -560            | 912           |
| Idaho . . . . .                       | 0.044270   | 113             | 10,482        | 0.221214                       | -2,323          | 5,468         |
| Illinois . . . . .                    | -0.005565  | -7,990          | 21,553        | -0.015684                      | -60,913         | 34,960        |
| Indiana . . . . .                     | 0.079426   | -2,044          | 8,077         | 0.088709                       | 7,770           | 5,819         |
| Iowa . . . . .                        | 0.012302   | -22,937         | 13,314        | 0.074986                       | -46,595         | 14,146        |
| Kansas . . . . .                      | 0.061820   | -2,259          | 4,674         | 0.158439                       | 10,639          | 277           |
| Kentucky . . . . .                    | 0.023655   | -6,641          | 17,832        | 0.015712                       | -15,751         | 21,050        |
| Louisiana . . . . .                   | 0.105459   | 53,216          | 2,251         | 0.124945                       | 55,464          | 167           |
| Maine . . . . .                       | 0.026901   | -3,659          | 4,612         | -0.011197                      | -41,449         | 8,337         |
| Maryland . . . . .                    | 0.023534   | -8,872          | 6,975         | 0.039987                       | -4,806          | 5,572         |
| Massachusetts . . . . .               | 0.032450   | -2,312          | 3,371         | 0.038816                       | -2,548          | 3,080         |
| Michigan . . . . .                    | 0.006455   | -21,327         | 31,990        | -0.023017                      | -23,908         | 33,169        |
| Minnesota . . . . .                   | 0.000310   | -20,823         | 26,365        | 0.008351                       | -106,597        | 30,823        |
| Mississippi . . . . .                 | 0.001714   | -39,317         | 19,444        | 0.020445                       | -27,887         | 17,239        |
| Missouri . . . . .                    | 0.004697   | -8,884          | 10,776        | -0.002402                      | 9,637           | 8,938         |
| Montana . . . . .                     | 0.055324   | -1,581          | 4,356         | -0.059715                      | -48,367         | 13,442        |
| Nebraska . . . . .                    | 0.037329   | -2,510          | 3,593         | 0.034127                       | -72             | 2,640         |
| Nevada . . . . .                      | 0.005007   | -8,090          | 4,055         | 0.008052                       | 600             | 2,787         |
| New Hampshire . . . . .               | 0.112057   | 177             | 1,530         | 0.259509                       | 1,299           | 402           |
| New Jersey . . . . .                  | 0.030384   | -392            | 4,901         | 0.103886                       | 9               | 2,432         |
| New Mexico . . . . .                  | -0.011244  | -8,297          | 9,568         | 0.230217                       | -2,553          | 3,300         |
| New York . . . . .                    | 0.046461   | -16,384         | 18,549        | 0.060195                       | 14,380          | 6,931         |
| North Carolina . . . . .              | 0.013151   | -7,442          | 16,655        | -0.007341                      | -5,733          | 18,773        |
| North Dakota . . . . .                | (NA)   | (NA)            | (NA)          | (NA)                           | (NA)            | (NA)          |
| Ohio . . . . .                        | 0.008805   | 44,579          | 17,178        | -0.000533                      | -55,316         | 25,603        |
| Oklahoma . . . . .                    | 0.010053   | 17,862          | 15,896        | 0.135080                       | 27,988          | 6,568         |
| Oregon . . . . .                      | 0.017087   | -5,837          | 8,095         | 0.009877                       | -8,838          | 8,179         |
| Pennsylvania . . . . .                | 0.050758   | -16,535         | 18,668        | 0.056836                       | -15,548         | 18,131        |
| Rhode Island . . . . .                | 0.046582   | -1,416          | 914           | 0.102558                       | -994            | 499           |
| South Carolina . . . . .              | 0.039217   | -3,630          | 7,815         | 0.020949                       | -8,305          | 10,720        |
| South Dakota . . . . .                | -0.000329  | -9,205          | 11,194        | 0.070309                       | -4,221          | 7,158         |
| Tennessee . . . . .                   | 0.084448   | -9,998          | 12,576        | 0.203468                       | -3,342          | 5,689         |
| Texas . . . . .                       | 0.114686   | -85,855         | 44,518        | 0.128279                       | -71,291         | 38,430        |
| Utah . . . . .                        | 0.009602   | -5,402          | 7,922         | 0.007556                       | -7,585          | 7,951         |
| Vermont . . . . .                     | 0.042093   | -2,395          | 2,132         | 0.067655                       | -2,349          | 1,435         |
| Virginia . . . . .                    | 0.079698   | 778             | 4,363         | 0.112100                       | 9,122           | 1,340         |
| Washington . . . . .                  | 0.095993   | -3,056          | 4,652         | 0.084185                       | -13,640         | 6,129         |
| West Virginia . . . . .               | 0.042905   | -11,238         | 6,458         | 0.012519                       | -13,442         | 7,608         |
| Wisconsin . . . . .                   | 0.014256   | -12,514         | 22,081        | 0.021117                       | -19,455         | 18,855        |
| Wyoming . . . . .                     | -0.003362  | -3,606          | 4,480         | -0.030790                      | -4,007          | 4,809         |

(NA) Not available.

**Table D–8. Parameters a and b for Calculating Approximate Standard Errors for Levels of Wildlife-Watching Participants for the Detailed Wildlife-Watching Sample**

| State                             | Away-from-home participants |               | Wildlife-watching participants <sup>1</sup> |               |
|-----------------------------------|-----------------------------|---------------|---|---------------|
|                                   | a                           | b             | a   | b             |
| <b>United States, total</b> ..... | <b>-0.000134</b>            | <b>32,078</b> | <b>-0.000119</b>                            | <b>28,477</b> |
| Alabama .....                     | -0.003523                   | 12,908        | -0.009869                                   | 36,163        |
| Alaska .....                      | -0.004221                   | 2,221         | -0.005350                                   | 2,815         |
| Arizona .....                     | -0.001319                   | 6,703         | -0.001925                                   | 9,787         |
| Arkansas .....                    | -0.003939                   | 8,814         | -0.003938                                   | 8,814         |
| California .....                  | -0.000739                   | 21,116        | -0.000937                                   | 26,764        |
| Colorado .....                    | -0.003019                   | 11,913        | -0.003309                                   | 13,057        |
| Connecticut .....                 | -0.002392                   | 6,653         | -0.002609                                   | 7,256         |
| Delaware .....                    | -0.001438                   | 1,005         | -0.002547                                   | 1,780         |
| Florida .....                     | -0.001411                   | 20,956        | -0.001591                                   | 23,634        |
| Georgia .....                     | -0.003335                   | 24,875        | -0.007832                                   | 58,421        |
| Hawaii .....                      | -0.002051                   | 2,041         | -0.001805                                   | 1,797         |
| Idaho .....                       | -0.007948                   | 9,315         | -0.008539                                   | 10,006        |
| Illinois .....                    | -0.001219                   | 12,172        | -0.001994                                   | 19,916        |
| Indiana .....                     | -0.002020                   | 10,030        | -0.006775                                   | 33,637        |
| Iowa .....                        | -0.003386                   | 8,000         | -0.003220                                   | 7,607         |
| Kansas .....                      | -0.003728                   | 8,064         | -0.003222                                   | 6,969         |
| Kentucky .....                    | -0.002201                   | 7,431         | -0.005428                                   | 18,327        |
| Louisiana .....                   | -0.001619                   | 5,582         | -0.009544                                   | 32,914        |
| Maine .....                       | -0.003739                   | 3,986         | -0.006455                                   | 6,881         |
| Maryland .....                    | -0.000762                   | 3,414         | -0.001982                                   | 8,879         |
| Massachusetts .....               | -0.001036                   | 5,512         | -0.001839                                   | 9,783         |
| Michigan .....                    | -0.003032                   | 23,610        | -0.003331                                   | 25,940        |
| Minnesota .....                   | -0.005468                   | 22,603        | -0.006274                                   | 25,934        |
| Mississippi .....                 | -0.005131                   | 11,393        | -0.005454                                   | 12,110        |
| Missouri .....                    | -0.002842                   | 13,264        | -0.003139                                   | 14,653        |
| Montana .....                     | -0.004110                   | 3,194         | -0.004772                                   | 3,708         |
| Nebraska .....                    | -0.003608                   | 5,004         | -0.004078                                   | 5,656         |
| Nevada .....                      | -0.005369                   | 10,865        | -0.004111                                   | 8,319         |
| New Hampshire .....               | -0.002275                   | 2,425         | -0.002428                                   | 2,589         |
| New Jersey .....                  | -0.000795                   | 5,449         | -0.001272                                   | 8,715         |
| New Mexico .....                  | -0.003021                   | 4,686         | -0.004748                                   | 7,364         |
| New York .....                    | -0.002450                   | 37,975        | -0.002910                                   | 45,114        |
| North Carolina .....              | -0.003857                   | 28,014        | -0.004098                                   | 29,769        |
| North Dakota .....                | (NA)                        | (NA)          | (NA)  | (NA)          |
| Ohio .....                        | -0.001006                   | 9,055         | -0.003043                                   | 27,382        |
| Oklahoma .....                    | -0.001850                   | 5,230         | -0.005081                                   | 14,367        |
| Oregon .....                      | -0.002304                   | 7,055         | -0.004554                                   | 13,942        |
| Pennsylvania .....                | -0.003639                   | 36,519        | -0.004874                                   | 48,914        |
| Rhode Island .....                | -0.001580                   | 1,340         | -0.001829                                   | 1,552         |
| South Carolina .....              | -0.004536                   | 16,126        | -0.004877                                   | 17,337        |
| South Dakota .....                | -0.002833                   | 1,788         | -0.013684                                   | 8,638         |
| Tennessee .....                   | -0.007450                   | 36,840        | -0.004097                                   | 20,260        |
| Texas .....                       | -0.001436                   | 26,817        | -0.001909                                   | 35,657        |
| Utah .....                        | -0.002560                   | 5,211         | -0.002329                                   | 4,741         |
| Vermont .....                     | -0.007044                   | 3,605         | -0.006399                                   | 3,275         |
| Virginia .....                    | -0.002247                   | 13,787        | -0.002743                                   | 16,828        |
| Washington .....                  | -0.004645                   | 24,585        | -0.003371                                   | 17,846        |
| West Virginia .....               | -0.019113                   | 27,981        | -0.015998                                   | 23,421        |
| Wisconsin .....                   | -0.004020                   | 17,926        | -0.005124                                   | 22,851        |
| Wyoming .....                     | -0.003576                   | 1,515         | -0.004694                                   | 1,988         |

(NA) Not available

<sup>1</sup> Use these parameters for total wildlife-watching participants and around-the-home participants.

**Table D-9. Parameters a, b, and c for Calculating Approximate Standard Errors for Expenditures and Days or Trips for Wildlife-Watching Sample**

| State                             | Expenditures    |                   |                | Days or trips   |                |               |
|-----------------------------------|-----------------|-------------------|----------------|-----------------|----------------|---------------|
|                                   | a               | b                 | c              | a               | b              | c             |
| <b>United States, total</b> ..... | <b>0.001308</b> | <b>-1,548,024</b> | <b>112,362</b> | <b>0.002307</b> | <b>826,023</b> | <b>54,100</b> |
| Alabama .....                     | 0.292431        | -9,893            | 10,505         | -0.079778       | 174,629        | 61,748        |
| Alaska .....                      | 0.108738        | -34,916           | 4,682          | 0.016446        | -58,833        | 12,421        |
| Arizona .....                     | 0.077675        | -4,716            | 7,536          | -0.027772       | 286,426        | 30,687        |
| Arkansas .....                    | 0.313406        | -11,247           | 9,078          | 0.062790        | -194,867       | 34,370        |
| California .....                  | 0.048430        | -43,155           | 28,990         | 0.006079        | -38,139        | 52,624        |
| Colorado .....                    | 0.124349        | -14,729           | 9,702          | 0.026976        | 183,987        | 10,254        |
| Connecticut .....                 | 0.007486        | -436,089          | 16,607         | -0.024420       | 125,914        | 23,606        |
| Delaware .....                    | 0.061895        | -18,947           | 3,005          | -0.074027       | 13,351         | 10,785        |
| Florida .....                     | 0.083730        | 104,408           | 21,053         | 0.007541        | -194,343       | 57,112        |
| Georgia .....                     | 0.249488        | -25,092           | 26,678         | 0.050793        | -3,332,773     | 479,805       |
| Hawaii .....                      | 0.120445        | -32,991           | 1,567          | 0.083382        | -9,149         | 3,825         |
| Idaho .....                       | 0.223371        | -147,314          | 10,203         | -0.062345       | -258,027       | 89,698        |
| Illinois .....                    | 0.107605        | -13,356           | 18,919         | 0.044699        | -354,008       | 68,862        |
| Indiana .....                     | 0.193872        | -322,885          | 13,396         | -0.040883       | -166,121       | 69,136        |
| Iowa .....                        | 0.021305        | 94,648            | 4,636          | 0.079467        | -75,095        | 20,869        |
| Kansas .....                      | 0.072491        | 6,025             | 5,519          | -0.013518       | -72,502        | 27,154        |
| Kentucky .....                    | 0.157856        | -96,510           | 5,459          | 0.029898        | -95,012        | 43,749        |
| Louisiana .....                   | 0.362140        | 107,638           | 6,464          | 0.246426        | 368,942        | -24,469       |
| Maine .....                       | 0.094142        | -35,394           | 5,069          | 0.150679        | -50,401        | 9,088         |
| Maryland .....                    | 0.095353        | 39,360            | 3,760          | -0.020442       | -46,263        | 37,328        |
| Massachusetts .....               | 0.014009        | -163,624          | 14,762         | -0.020104       | -59,530        | 32,483        |
| Michigan .....                    | 0.072396        | 489               | 41,625         | 0.046186        | 1,002,661      | -40,953       |
| Minnesota .....                   | 0.096860        | -27,052           | 22,699         | 0.018847        | -405,415       | 80,062        |
| Mississippi .....                 | 0.040018        | 23,616            | 8,811          | -0.060202       | -43,904        | 39,904        |
| Missouri .....                    | 0.077023        | -29,229           | 11,649         | 0.021741        | -290,522       | 62,546        |
| Montana .....                     | 0.102248        | 27,322            | 3,406          | -0.004215       | -16,717        | 12,349        |
| Nebraska .....                    | 0.250670        | -146,886          | 4,935          | 0.027770        | 347,687        | 3,046         |
| Nevada .....                      | 0.100312        | -90,487           | 4,723          | -0.038534       | -44,832        | 21,999        |
| New Hampshire .....               | 0.024368        | -13,607           | 3,264          | 0.043269        | 9,164          | 578           |
| New Jersey .....                  | 0.089631        | -120,587          | 9,071          | -0.020528       | -231,435       | 57,548        |
| New Mexico .....                  | 0.110251        | 1,905             | 3,130          | 0.021449        | 197,267        | 5,813         |
| New York .....                    | 0.122911        | -1,425,885        | 68,948         | 0.006340        | -44,103        | 93,311        |
| North Carolina .....              | 0.017031        | -326,265          | 56,212         | -0.058093       | -593,772       | 133,445       |
| North Dakota .....                | (NA)            | (NA)              | (NA)           | (NA)            | (NA)           | (NA)          |
| Ohio .....                        | 0.080684        | -39,489           | 26,461         | 0.001012        | -1,543         | 45,574        |
| Oklahoma .....                    | 0.235454        | 57,625            | 3,593          | 0.014729        | -152,377       | 38,659        |
| Oregon .....                      | 0.099298        | -158,238          | 13,407         | 0.010117        | -157,164       | 46,869        |
| Pennsylvania .....                | 0.084612        | -12,972           | 30,509         | -0.007189       | -465,695       | 137,527       |
| Rhode Island .....                | 0.097369        | -15,709           | 1,525          | -0.006225       | 65,378         | 2,641         |
| South Carolina .....              | 0.063035        | -24,816           | 15,855         | 0.022948        | -180,925       | 43,937        |
| South Dakota .....                | 0.071413        | 123,949           | 5,679          | 0.089793        | -8,087         | 10,884        |
| Tennessee .....                   | 0.031635        | -32,698           | 21,276         | 0.086824        | -18,925        | 12,703        |
| Texas .....                       | 0.072728        | -140,319          | 44,225         | 0.058100        | -1,079,923     | 206,159       |
| Utah .....                        | 0.085970        | -75,950           | 8,631          | -0.041299       | -141,530       | 33,231        |
| Vermont .....                     | 0.038545        | -10,496           | 2,590          | -0.014657       | 6,845          | 6,875         |
| Virginia .....                    | 0.077984        | 46,506            | 9,684          | -0.013749       | -12,650        | 34,877        |
| Washington .....                  | 0.046435        | -44,547           | 25,839         | -0.074088       | -88,929        | 109,017       |
| West Virginia .....               | 0.369202        | 18,732            | 2,180          | 0.243904        | -8,874         | 7,939         |
| Wisconsin .....                   | 0.256246        | -223,513          | 26,643         | -0.019357       | -228,892       | 138,515       |
| Wyoming .....                     | 0.098137        | 502               | 2,339          | 0.039285        | -9,043         | 7,534         |

(NA) Not available.





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