



1980 National Survey of Fishing, Hunting, and Wildlife- Associated Recreation

U.S. Department of the Interior
FISH AND WILDLIFE SERVICE

U.S. Department of Commerce
BUREAU OF THE CENSUS



1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation

Issued November 1982



U.S. Department of the Interior
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FISH AND WILDLIFE SERVICE
Robert A. Jantzen, Director



U.S. Department of Commerce
Malcolm Baldrige, Secretary
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Foreword

This is the sixth in a series of surveys of fishing and hunting conducted by the U.S. Fish and Wildlife Service at 5-year intervals since 1955. In addition to a broad range of information on fishing and hunting, this 1980 survey provides an expanded set of data on nonconsumptive wildlife-associated activities such as wildlife observation, photography, and feeding. Publication of the survey results include this national report and 50 individual State reports.

The survey findings demonstrate that fishing, hunting, and other wildlife-related activities appeal to all kinds of people: male and female, Black and White, urban and rural. Millions of Americans get outdoors to enjoy these activities, spend billions of dollars in the process, and enjoy hundreds of millions of days at these pastimes.

Fish and wildlife have a special importance for us, and that importance is being more clearly recognized as we intensify our efforts to preserve, restore, and improve our environment. Fish and wildlife are needed, not only because of the recreation they provide, as described in this report, but also because of their important ecological role. To a considerable extent, fishermen and hunters pay their own way by financing fish and wildlife programs through fees for licenses and tags and through excise taxes on equipment purchased. As with previous national surveys, the 1980 survey was paid for by proceeds from excise taxes on sporting arms, ammunition, and fishing tackle. The States, which share the tax proceeds through the Federal Aid in Fish and Wildlife Restoration Programs, requested this survey.

The survey provides a national perspective for Federal agencies and

also directly serves the needs of State fish and game agencies. Information provided by this study will be used by fish and wildlife resource planners and managers at all levels of government. The survey will assist them in establishing the programs and priorities necessary to assure the continued availability of the recreational opportunities provided by our fish and wildlife resources, both now and in the future.

In this day and age, we need fish and wildlife more than ever before, both as an integral part of our environment and for traditional recreational uses. This is a study of the human uses of fish and wildlife. The results reported here reflect some of the values we place on these resources and the important role they play in American life.



Robert A. Jantzen, Director
Fish and Wildlife Service
United States
Department of the
Interior

Survey Background and Method

The 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation is designed to gather information about American participation in fishing, hunting, and other forms of wildlife-associated recreation. The national survey of fishing and hunting has been conducted every 5 years since 1955 and represents one of the oldest and most comprehensive continuing recreation surveys. The purpose of the survey is to gather information on the numbers of fishermen and hunters in our country, as well as how often they participate and how much they spend on these activities. The 1980 survey is the first to also gather extensive information about those who observe, photograph, or feed wildlife. Differences and similarities between the 1980 survey and previous surveys are discussed in appendix B.

The planning process for the 1980 survey began in 1978 when the International Association of Fish and Wildlife Agencies (IAFWA) passed a resolution asking the U.S. Fish and Wildlife Service to conduct a national survey of fishing and hunting in 1980. As with previous national surveys, funding for the survey came from the administrative portion of revenues produced by excise taxes on fishing and hunting equipment under the Dingell/Johnson and Pittman/Robertson Federal Aid for Fish and Wildlife Restoration Acts.

In early 1979, the IAFWA was asked to help ensure that fish and game agencies of the 50 States had an opportunity to participate in all phases of planning and design of the survey. Four regional technical committees were set up under the auspices of the IAFWA. Made up of representatives of State fish and game agencies, the committees served as a point of contact for the survey between the States and the Fish and Wildlife Service. They provided initial suggestions and comments about what information the survey should produce and how it should be conducted. The technical committees reviewed alternatives for survey design, draft questionnaires, and, finally, preliminary tabulations of survey results. Reviews of draft materials were also solicited from State fish and game directors and a cross-section of sportsmen's and conservation organizations.

After reviewing comments and suggestions received from those sources about the type of survey to be conducted, the Fish and Wildlife Service in early 1980 made a tentative decision on the nature and estimated cost of the survey to be conducted and once again asked the State agencies for their reaction. No dissenting responses were received.

The 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation produced both this national report and individual State reports for the 50 States. The survey

was conducted by the U.S. Bureau of the Census in two phases. In the first phase, a sample of more than 116,000 households nationwide was screened, mostly by telephone, to determine who in the household had hunted, fished, or engaged in some nonconsumptive wildlife-associated activity in 1980. The screening was done in January 1981. Information about all household members 6 years old and older was obtained from an adult member of each household. A 95-percent response rate was achieved for the screening.

The second phase of the survey consisted of detailed in-person interviews conducted in spring 1981 with subsamples of fishermen, hunters, and nonconsumptive users identified in the screening phase. Participants in this detailed phase were limited to those at least 16 years old because of the length and complexity of the questionnaires. Sample sizes were designed to provide statistically reliable results at the State level for fishing and hunting and at the Census geographic division level for nonconsumptive activities. A total of 30,300 fishermen and hunters and 6,000 nonconsumptive users were interviewed. A sample of those who had fished or hunted and engaged in nonconsumptive activities were interviewed with both questionnaires.



Highlights

Summary

Wildlife-associated recreation is one of this country's most popular forms of outdoor recreation. In 1980, 42.1 million persons 16 years old and older fished, 17.4 million hunted, and 83.2 million took an active role in nonconsumptive forms of wildlife-associated recreation (wildlife observation, photography, or feeding). In all, 99.8 million persons, 59 percent of the population, enjoyed one or more of these recreational activities. The detailed information contained in this report refers only to the 16 years and older group because it was judged that younger persons would be unable to respond accurately to the long and complicated survey questionnaires. The survey did reveal, however, that substantial numbers of youths are involved in wildlife-related activities. In 1980, 11.8 million youths aged 6-15 years fished, 2.0 million hunted, and 11.4 million took active roles in nonconsumptive wildlife activities.

Fishing

This country provides a tremendous variety of sport fishing opportunities, from salmon fishing in the cold waters of the Northwest to fishing for bass in the warm waters of the South. In 1980, 36.4 million freshwater fishermen spent 710.6 million days and \$7.8 billion pursuing their sport, an average of 20 days and \$214 per angler. That total includes 3.0 million Great Lakes fishermen who accounted for 40.5 million days. Fishing in saltwater accounted for 12.3 million anglers, 147.0 million days, and \$2.4 billion, representing averages of 12 days and \$200 per saltwater fisherman. In total, 42.1 million anglers spent 857.6 million days and \$17.3 billion.

This expenditure total includes special equipment and land leasing and ownership not apportioned by freshwater and saltwater fishing.

Hunting

Since the earliest days of this Nation, hunting has provided a broad range of satisfaction to millions of Americans. In 1980, 17.4 million persons participated in some kind of hunting, representing a total effort of 330.2 million hunting days and expenditures of \$8.5 billion. Hunting for big game (deer, elk, etc.), accounted for 11.8 million hunters, 112.8 million days, and \$2.8 billion. Small game hunting (rabbits, squirrels, etc.) totaled 12.4 million hunters, 151.2 million days and \$1.7 billion. Migratory bird hunters numbered 5.3 million, hunted on 42.9 million days, and spent \$638 million. Hunting for other types of animals such as fox and raccoon accounted for 2.6 million hunters, 38.4 million hunting days, and \$251 million.

Trends in Fishing and Hunting

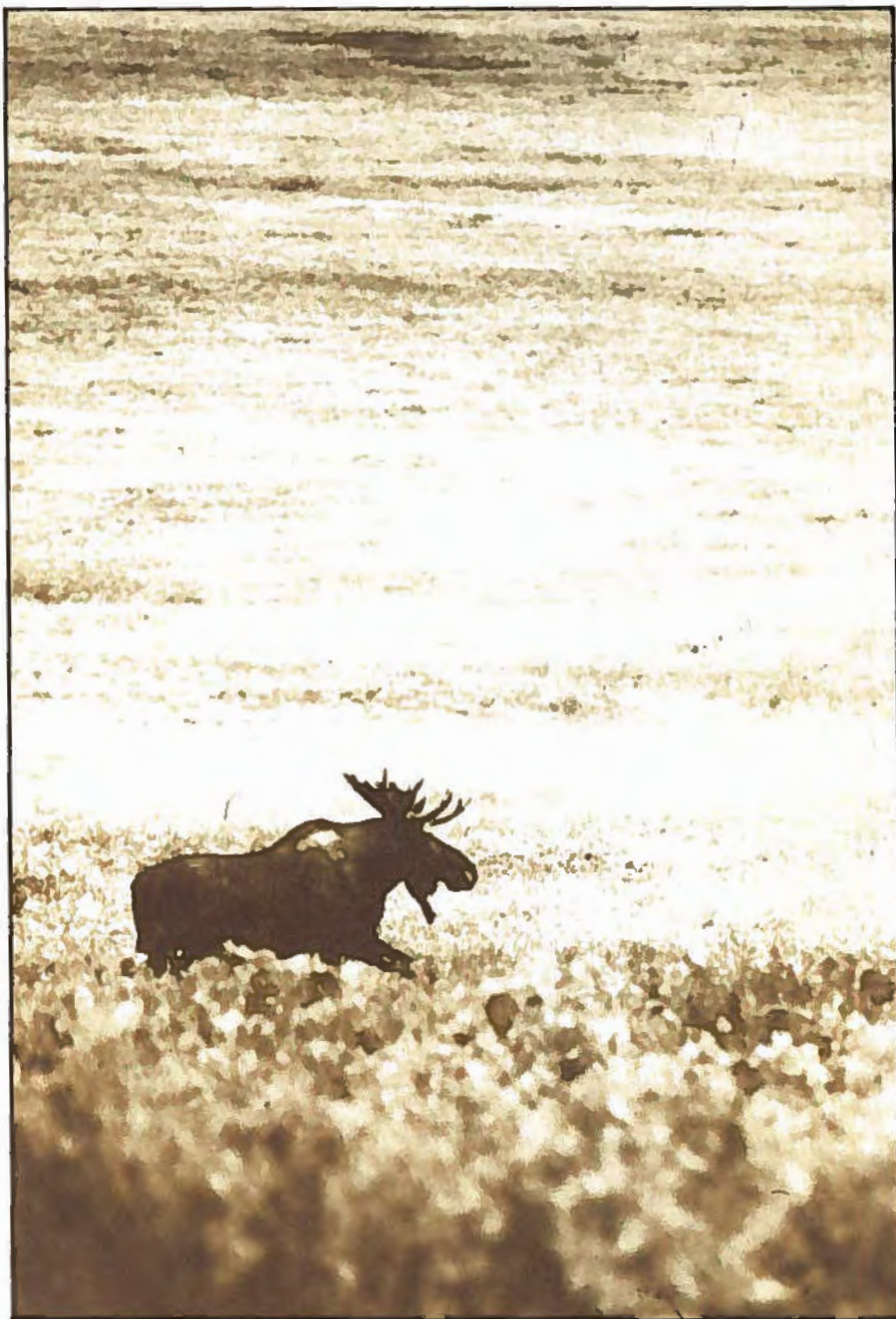
Trends in fishing and hunting can be shown by adjusting survey results to achieve comparability with previous surveys of fishing and hunting. Since the first national survey was conducted in 1955, the numbers of fishermen and hunters have increased from 20.8 to 41.9 million fishermen and 11.8 to 16.8 million hunters in 1980. Expenditures and days of participation have also shown increases going from \$2.8 billion in 1955 to \$27.2 billion in 1980. Days of participation increased from 397.4 million days in 1955 to

1,001.6 million days in 1980 for fishing and 169.4 million days to 387.3 million days for hunting. Further comparisons between the 1955-1980 surveys are given in appendix B.

Nonconsumptive Wildlife Use

Observing, photographing, and feeding wildlife provide enjoyment to millions of persons in the United States, many of whom also fish and hunt. In 1980, 28.8 million nonconsumptive users aged 16 and older took trips of at least 1 mile from their home primarily for the purpose of observing, photographing, or feeding wildlife, spending \$4.0 billion in the process. Some 69.4 million persons enjoyed wildlife in some way while on a trip taken for another purpose. Millions more enjoy wildlife-related activities around their homes. In 1980, 79.7 million individuals observed, photographed, or fed wildlife at home.

Substantial numbers of sportsmen enjoy nonconsumptive wildlife activities in addition to fishing or hunting. Some 65 percent of all sportsmen engaged in some active nonconsumptive activity in 1980.



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Summary

Introduction

Since the first survey was conducted in 1955, the National Surveys of Fishing and Hunting have become an important source of information about the vast array of recreational activities provided by this Nation's fish and wildlife resources. The 1980 National Survey, the sixth in the series, continues that tradition by providing an in-depth and comprehensive description of fishing and hunting activities. In response to requests from State fish and game agencies and other users of the survey, the 1980 survey includes for the first time a detailed accounting of Americans' involvement in wildlife observation, photography, and feeding activities. Coverage of these nonconsumptive wildlife uses in the 1980 survey is not nearly as extensive as that provided for fishing and hunting; the number of interviews related to nonconsumptive activities was less than one-fifth the number of fishing and hunting interviews. Nonetheless, significantly more information was generated about nonconsumptive activities than has ever been available on a nationwide basis before.

Summary Highlights

The 1980 survey revealed that 99.8 million Americans aged 16 and older participated in one or more wildlife-associated activities; 42.1 million fished, 17.4 million hunted, and 83.2 million engaged in a nonconsumptive activity for which wildlife was the primary purpose. Comparable numbers for those between 6 and 15 years of age are 11.8 million fished, 2.0 million hunted, and 12.4 million nonconsumptive users.

There is considerable overlap among hunters, fishermen, and nonconsumptive users. In 1980, 73 percent of hunters also fished, and 30 percent of fishermen also hunted. Among sportsmen, 66 percent of fishermen and 62 percent of hunters were involved in nonconsumptive activities, whereas 36 percent of the nonconsumptive group also hunted and/or fished. The percentages of the population involved in these activities showed regional variations.

Expenditures associated with wildlife-associated activities by participants aged 16 and older totaled \$41 billion, making fishing, hunting,

and nonconsumptive activities a significant part of the American economy. Of that total, \$17.3 billion was for fishing, \$8.5 billion was for hunting, and \$14.8 billion was for nonconsumptive activities. If spending for equipment in the nonconsumptive category is limited to equipment bought primarily for that purpose, as it already is for fishing and hunting equipment, nonconsumptive spending would be \$6.6 billion. Total spending for wildlife-associated activities is then \$32.5 billion.

Participation in Wildlife-Associated Recreation

The 1980 survey found that about 100 million Americans aged 16 and older participated in at least one kind of wildlife-related activity. That total included 42.1 million who fished, 17.4 million who hunted, and 83.2 million who engaged in some form of nonconsumptive activity (defined on p.30) where wildlife was the primary focus or purpose. Many individuals, of course, participated in more than one form of wildlife-related activity, which means that the sum of hunters, fishermen, and nonconsumptive users is greater than the total number of participants.

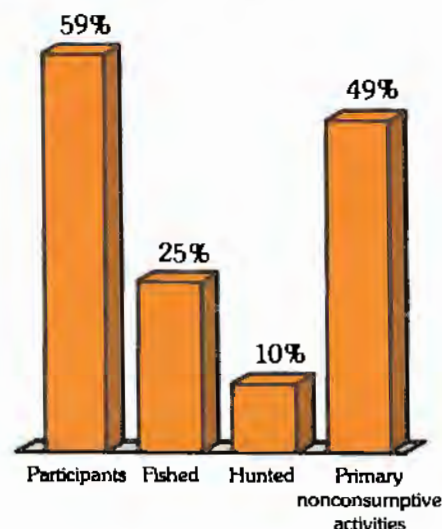
This report focuses on the wildlife-associated activities of those in the

population who are 16 years old and older. Of course, substantial numbers of youths between the ages of 6 and 15 also fish, hunt, or engage in nonconsumptive activities. The survey showed that in 1980 11.8 million youths fished and 2.0 million hunted; 1.6 million both fished and hunted. About 11.4 million engaged in nonconsumptive activities where wildlife was the primary aim.

| Activity | 16 years and older (millions) | 6-15 years old (millions) |
|----------------------------|-------------------------------|---------------------------|
| Fished | 42.1 | 11.8 |
| Hunted | 17.4 | 2.0 |
| Primary nonconsumptive use | 83.2 | 11.4 |

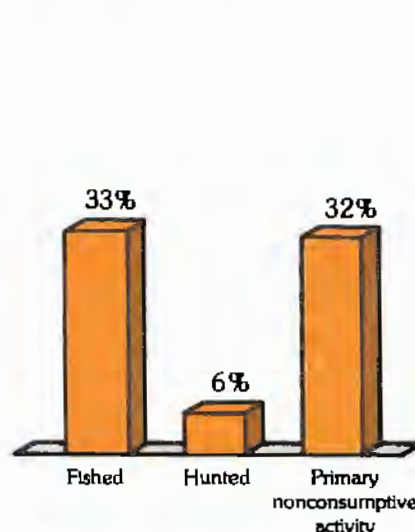
16 years old and older

Percent of U.S. population in age group



6-15 years old

Percent of U.S. population in age group

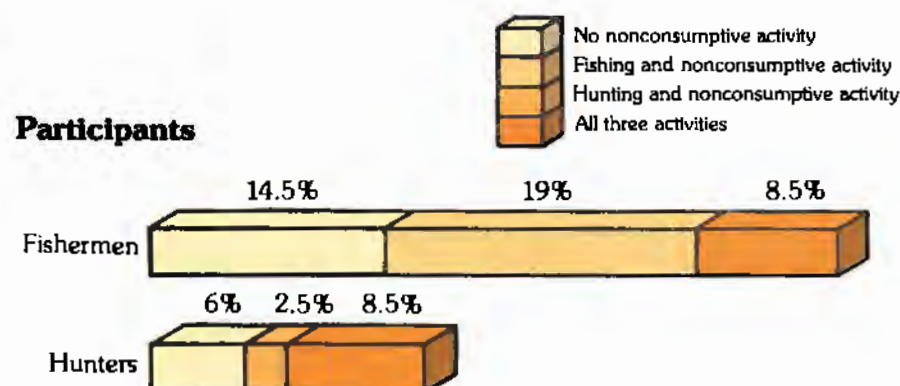


Diversity of Participation in Wildlife-Associated Activities

In 1980, 73 percent of those who hunted also fished. Among anglers, 30 percent of those who fished also went hunting. As the chart illustrates, many participants who fished and

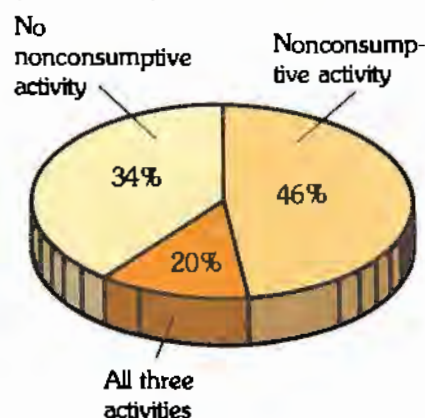
hunted also engaged in some form of primary nonconsumptive wildlife activity such as observation, photography, or feeding; 66 percent of those who fished and 62 percent of those who hunted were also involved in one or more primary activities. From a different perspective, 36 percent of primary nonconsumptive users fished and/or hunted.

Participants



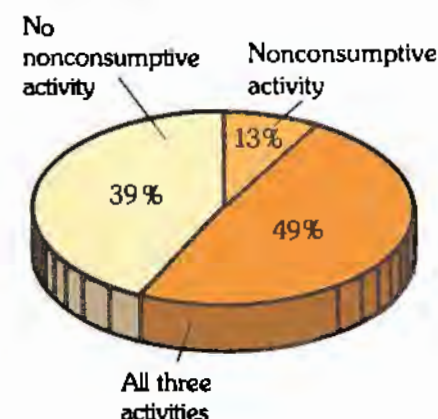
Fishing

(42.1 million)



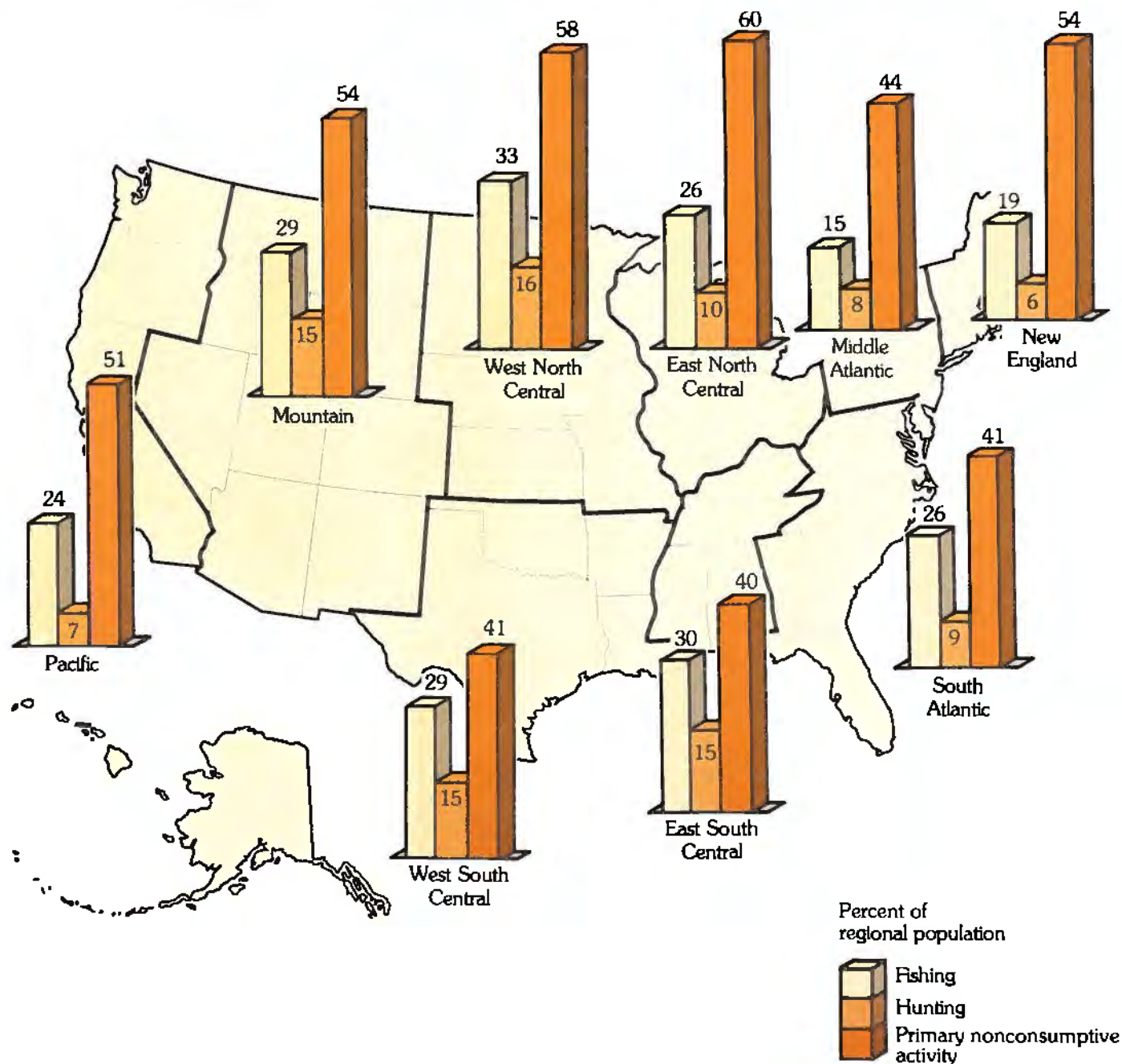
Hunting

(17.4 million)



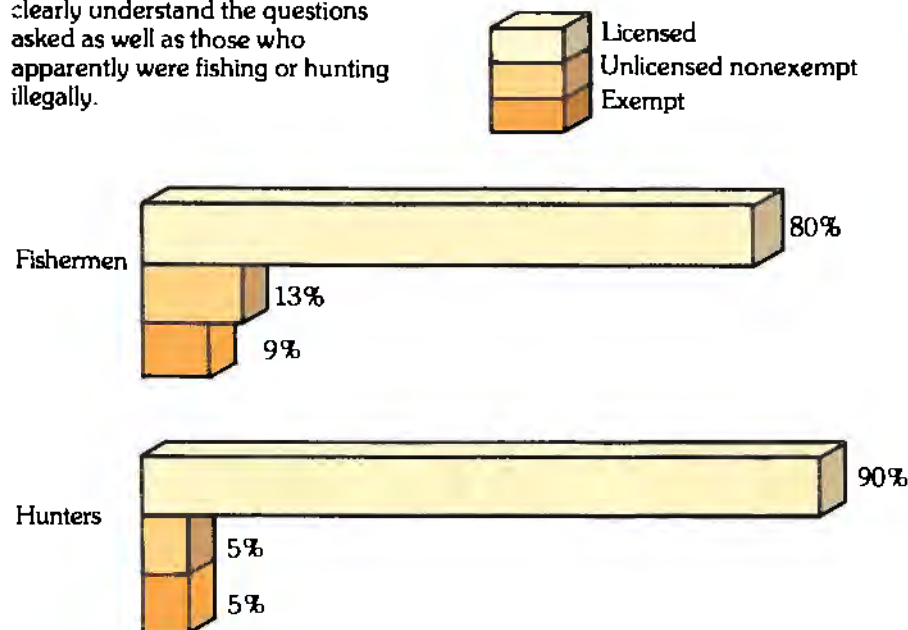
Participation Rates in Geographic Regions

Rates of participation varied across the United States. Fishing ranged from 33 percent of the regional population in the West North Central region to 15 percent in the Middle Atlantic. For hunting, the West North Central region had a 16-percent participation rate, whereas 6 percent hunted in New England. Primary nonconsumptive use ranges from 60 percent of the population in the East North Central region to 40 percent in the East South Central region.



Licensing of Sportsmen

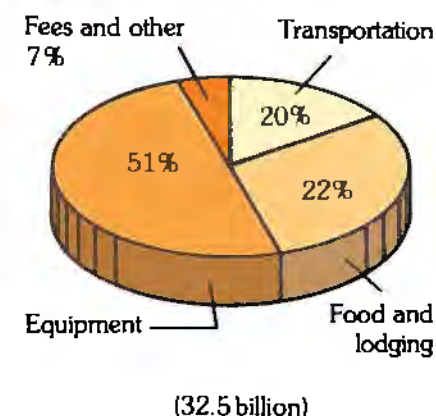
In addition to questions about their fishing and hunting activities, the 1980 survey queried respondents about fishing and hunting licenses. Of all freshwater fishermen aged 16 and older, 29.3 million said that they were licensed, 80 percent of the total. Because of their age or some other reason, 9 percent of fishermen were exempt from buying licenses, while 13 percent of those who fished responded that they were neither licensed nor exempt. In comparison, 90 percent of those who hunted said that they were licensed, with 5 percent exempt and 5 percent neither licensed nor exempt. The "neither licensed nor exempt" category for both fishing and hunting represents both those who did not clearly understand the questions asked as well as those who apparently were fishing or hunting illegally.



Expenditures for Wildlife-Associated Recreation

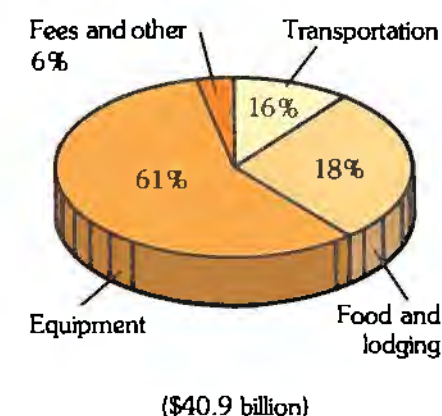
Expenditures for wildlife-associated recreation by participants aged 16 and older totaled \$41 billion making fishing, hunting, and nonconsumptive wildlife activities a significant part of

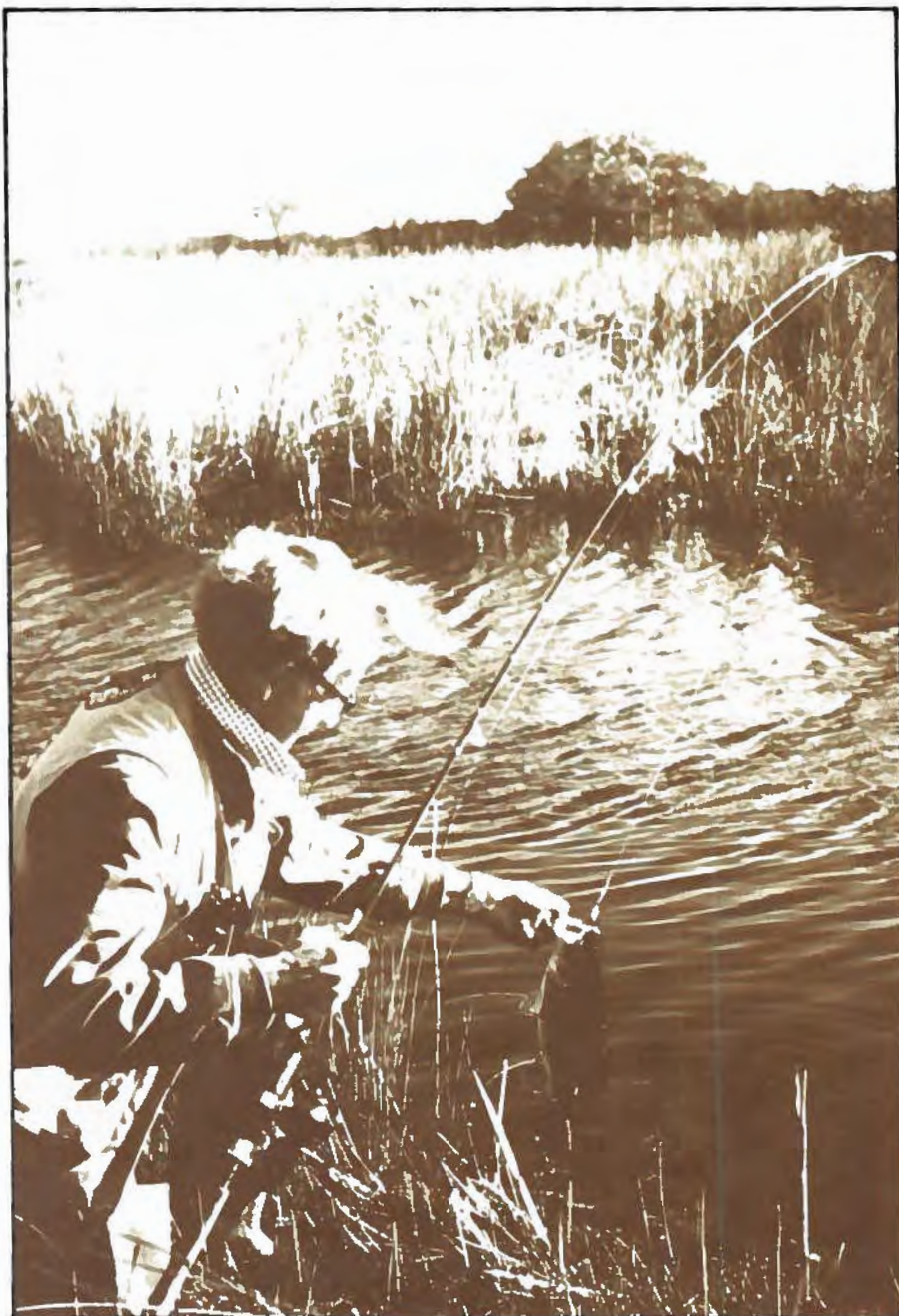
Expenditures primarily for wildlife-associated activities



the American economy. If spending for equipment in the nonconsumptive category is limited to equipment bought primarily for that purpose, total spending was \$32.5 billion. The majority of the \$32.5 billion was for equipment, about \$17 billion, or 51 percent of the total. Transportation accounted for 20 percent, food and lodging for 22 percent, and other sorts of expenditures for 7 percent.

All expenditures





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Summary

How Many Fishermen

In the United States, 42.1 million people aged 16 and older fished in 1980. About 11.8 million youths aged 6-15 also fished. Adult fishermen took 751.2 million fishing trips and fished for 857.6 million days. They spent a total of \$17.3 billion for fishing, representing averages of \$412 per fisherman and \$20 per day.

Freshwater (including the Great Lakes) was fished by 36.4 million fishermen. This group, 86 percent of all fishermen, took 620.5 million fishing trips and spent 710.6 million days fishing. The Great Lakes were fished by 3.0 million fishermen. They took 35.7 million trips and fished on 40.5 million days. Freshwater fishermen spent \$7.8 billion. The average freshwater fisherman spent \$11 per day of fishing, and spending averaged \$214 per fisherman for the year.

Saltwater fishermen numbered 12.3 million in 1980, 29 percent of all fishermen. They took 130.7 million fishing trips and spent 147.0 million days fishing. Expenditures for saltwater fishing totaled \$2.4 billion. The average saltwater fisherman spent \$16 per fishing day, or \$200 annually. Freshwater and saltwater spending sum to less than total expenditures because some equipment expenses could not be designated by type of fishing.

Spending on food and lodging, transportation, and fishing equipment accounted for most of the spending of both freshwater and saltwater fishermen; 88 percent of all freshwater fishing expenditures fell into these three categories as did 85 percent of

saltwater fishing expenditures. About 38 percent of the freshwater fishermen's spending was for food and lodging, 31 percent was for transportation, and 19 percent was for equipment. Saltwater anglers spent 38 percent of their total expenditures for food and lodging, 25 percent for transportation, and 21 percent for equipment.

What Kinds of Fish

In freshwater, excluding the Great Lakes, bass and panfish were each sought by about 18 million anglers on 333 million days. Catfish were sought by 13.3 million anglers on 236.7 million days. These three widespread and popular species accounted for over 65 percent of the effort directed toward catching particular fish. Trout were the species fished on 10 percent of the days. They were sought by 10.6 million anglers on 144.2 million days. Perch and salmon were the most popular species sought on the Great Lakes. Among the anadromous species selected for special attention in the saltwater category, striped bass were sought on 24.8 million days and salmon on 7.6 million days.

Where and How People Fish

Fishermen enjoy their sport in a variety of settings. Of the 36.4 million freshwater fishermen, 40 percent fished manmade lakes and reservoirs of 10 acres or more, 23 percent fished in manmade lakes and ponds of less than 10 acres, 40 percent fished natural lakes and ponds, and 43 percent fished in rivers and streams. Of the 12.3 million saltwater fishermen, 55 percent fished

"surf and shore"; 37 percent fished the deep sea; and 43 percent fished in saltwater sounds, bays, and tidal inlets and streams.

Many fishermen engaged in special kinds of sport fishing. About 2 million went ice fishing, and 1.2 million recreational fishermen used nets or seines. Spear fishing appealed to 400 thousand; 300 thousand used bow and arrow; and 1 million went gigging for frogs.

The overwhelming majority of American fishermen (91 percent) fished in their States of residence. In addition, 24 percent fished in other States and 3 percent fished in other countries. About 75 percent of all fishermen fished only in their States of residence.

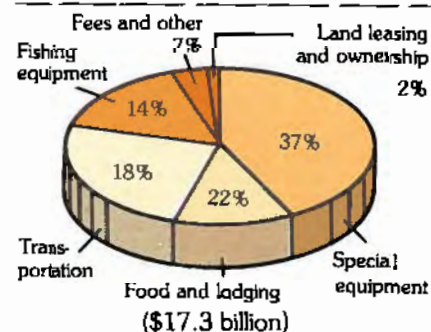
Who Fishes

Substantial numbers of both men and women fished. Fishing was a recreational activity of 36 percent of all men and 15 percent of all women. Fishing was quite popular among young men, where 44 percent of 16- and 17-year-olds fished. Among men and women, 31 percent of 25-34-year-olds fished in 1980, as did 15 percent of those aged 65 years and older. An estimated 30 percent of the population in towns and rural areas fished as did 22 percent of those in small cities and 14 percent in big cities. Fishermen come from all economic groups in the U.S. population. In 1980, one-half of the people in the United States had household incomes of under \$21,000 (median household income). Excluding those not reporting their income, 47 percent of fishermen had household incomes under \$20,000 in 1980.

Major Highlights

Approximately 42.1 million Americans aged 16 and older fished in 1980. Fishermen took 751.2 million fishing trips that accounted for 857.6 million days of fishing. On the average, fishermen took 18 fishing trips in 1980 and fished for 20 days. They spent \$17.3 billion for fishing. Food and lodging on fishing trips accounted for \$3.9 billion, or 22 percent of the total. Transportation accounted for \$3 billion (18 percent) and fishing equipment for \$2.5 billion (14 percent). Other expenditures were licenses, dues, and subscriptions for \$601 million (4 percent); rental and other fees of \$528 million (3 percent); land leasing and ownership of \$340 million (2 percent); and special equipment (boats, vans, etc.) used primarily for fishing of \$6.4 billion (37 percent), which did not distinguish between freshwater and saltwater use.

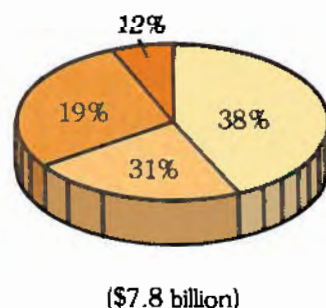
| | |
|---------------|------------------|
| Fishermen | 42.1 million |
| Trips | 751.2 million |
| per fisherman | 18 |
| Days | 857.6 million |
| per fisherman | 20 |
| Expenditures | \$17,325 million |
| per fisherman | \$412 |
| per day | \$20 |



Freshwater Fishing

About 36.4 million Americans aged 16 and older fished in freshwater in 1980, 86 percent of all fishermen. Freshwater fishing accounted for 620.5 million fishing trips and 710.6 million days of fishing. Fishermen spent \$7.8 billion on freshwater fishing. On the average, freshwater fishermen spent 20 days and \$214 at the sport in 1980. Spending amounted to \$11 per day. Expenditures for food and lodging accounted for \$2.9 billion; 38 percent of the total. Transportation expenditures of \$2.4 billion (31 percent) and fishing equipment of \$1.5 billion (19 percent) were the additional major expenditures types. Fishermen also spent \$260 million for rental and other fees (3 percent), \$293 million (4 percent) for licenses, tags, and permits, and \$369 million (5 percent) for other equipment used primarily for freshwater fishing.

| | |
|---------------|-----------------|
| Fishermen | 36.4 million |
| Trips | 620.5 million |
| per fisherman | 17 |
| Days | 710.6 million |
| per fisherman | 20 |
| Expenditures | \$7,794 million |
| per fisherman | \$214 |
| per day | \$11 |



Great Lakes Fishing

Fishing in the Great Lakes constitutes part of the total freshwater fishing effort described in the preceding section, but because of its unique character, the survey distinguished Great Lakes fishing from other freshwater fishing. Roughly 3.0 million fishermen fished the Great Lakes in 1980, taking 35.7 million trips and fishing for 40.5 million days. Of the \$5.6 billion freshwater fishermen spent for food, lodging, transportation, and fees, \$373 million, or 7 percent, was spent for Great Lakes fishing. Other expenditure categories could not distinguish between Great Lakes and other freshwater fishing. On the average Great Lakes fishermen fished for 13 days and spent \$124 apiece in 1980 for food, lodging, transportation, and fees. Spending for these three categories amounted to \$9 per fishing day.

| | |
|---------------------------|---------------|
| Fishermen | 3.0 million |
| Trips | 35.7 million |
| per fisherman | 12 |
| Days | 40.5 million |
| per fisherman | 13 |
| Expenditures ¹ | \$373 million |
| per fisherman | \$124 |
| per day | \$9 |

¹Food, lodging, transportation, and fees

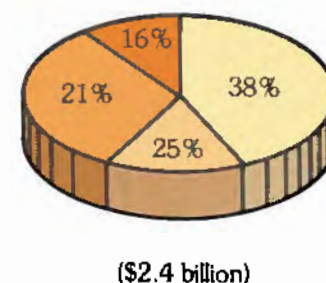
Expenditures



Saltwater Fishing

Some 12.3 million Americans went fishing in saltwater in 1980, 29 percent of all fishermen. Saltwater fishing accounted for 130.7 million fishing trips and 147.0 million days of fishing. Expenditures for saltwater fishing totaled \$2.4 billion. On the average, saltwater fishermen fished for 12 days and spent \$200 in 1980. Spending amounted to \$16 per fishing day. Expenditures for food and lodging of \$926 million made up a large portion of total saltwater fishing expenditures (38 percent), with transportation (\$611 million, 25 percent) and equipment (\$509 million, 21 percent) the other major categories. Privilege and other fees of \$268 million (11 percent); other equipment used primarily for saltwater fishing of \$90 million (4 percent); and licenses, tags, and stamps of \$15 million (1 percent) made up the rest of the total.

| | |
|---------------|-----------------|
| Fishermen | 12.3 million |
| Trips | 130.7 million |
| per fisherman | 11 |
| Days | 147.0 million |
| per fisherman | 12 |
| Expenditures | \$2,419 million |
| per fisherman | \$200 |
| per day | \$16 |



Comparative Highlights of Types of Fishing

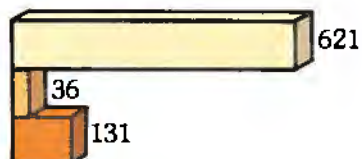
Comparisons of saltwater fishing data to those for freshwater fishing show that even though freshwater fishermen spent roughly three times as much money, expenditures per fisherman were roughly the same. In addition, expenditures per day by saltwater fishermen were relatively high, reflecting the higher cost of saltwater fishing.



Fishermen
(millions)



Trips
(millions)



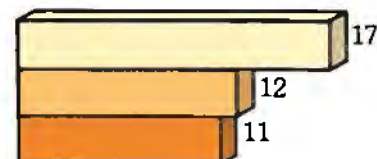
Days
(millions)



Expenditures
(billions of dollars)



Trips per fisherman



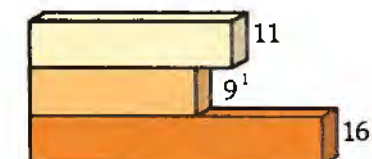
Days per fisherman



Expenditures per fisherman



Expenditures per day



¹Food, lodging, transportation, and fees

Fishing for Selected Types of Fish

Of the 36.4 million freshwater fishermen, roughly 18 million fished for bass and/or panfish. Among Great Lakes fishermen, perch and salmon/steelhead were two popular

species groups. In terms of days of fishing, 19 million were spent fishing for perch.

Only select anadromous species were singled out by the survey among saltwater species. An impressive 20 percent of all saltwater fishermen sought striped bass in 1980, and 9 percent fished for salmon.

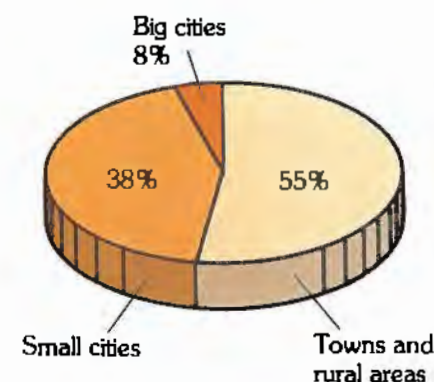
| Fish | Fishermen (thousands) | Days (millions) |
|-------------------------------|-----------------------|-----------------|
| FRESHWATER¹ | | |
| Bass | 18,259 | 333 |
| Panfish | 18,877 | 333 |
| Catfish | 13,339 | 237 |
| Walleye and sauger | 4,418 | 68 |
| Northern pike | 4,458 | 67 |
| Trout | 10,627 | 143 |
| Salmon | 1,323 | 18 |
| Striped bass | 1,751 | 34 |
| Anything | 5,647 | 78 |
| Other | 3,294 | 62 |
| GREAT LAKES | | |
| Bass | 710 | 10 |
| Walleye and sauger | 792 | 11 |
| Northern pike | 393 | 4 |
| Pickeral and muskie | 172 | 2 |
| Panfish | 507 | 9 |
| Perch | 1,420 | 19 |
| Catfish | 471 | 7 |
| Salmon and steelhead | 964 | 10 |
| Lake trout | 715 | 7 |
| Other trout | 448 | 5 |
| White bass | 202 | 4 |
| Sheepshead | 215 | 4 |
| Smelt | 337 | 2 |
| Anything | 379 | 4 |
| Other | 130 | 1 |
| ANADROMOUS | | |
| Salmon | 1,095 | 8 |
| Striped bass | 2,510 | 25 |

¹Excludes Great Lakes

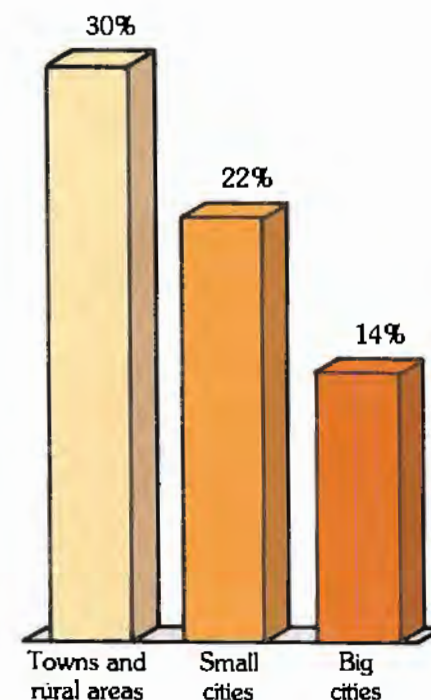
Participation Rates, by Area of Residence

The majority of American fishermen, 55 percent, live in small towns (less than 2,500 population) and rural areas; 30 percent of the population in those areas fished in 1980. Persons living in small cities (population 2,500-499,999) made up 38 percent of all fishermen; 22 percent of the population of small cities fished. The populations of big cities (population 500,000 or more) where 14 percent of the population fished, contributed 8 percent of all fishermen.

Percent of all fishermen

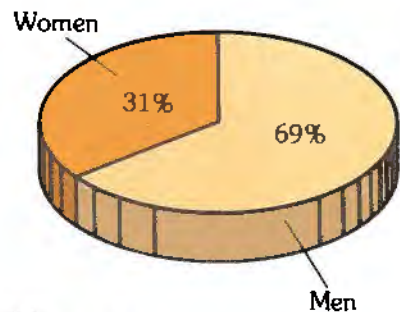


Percent of population who fished



Participation of Men and Women

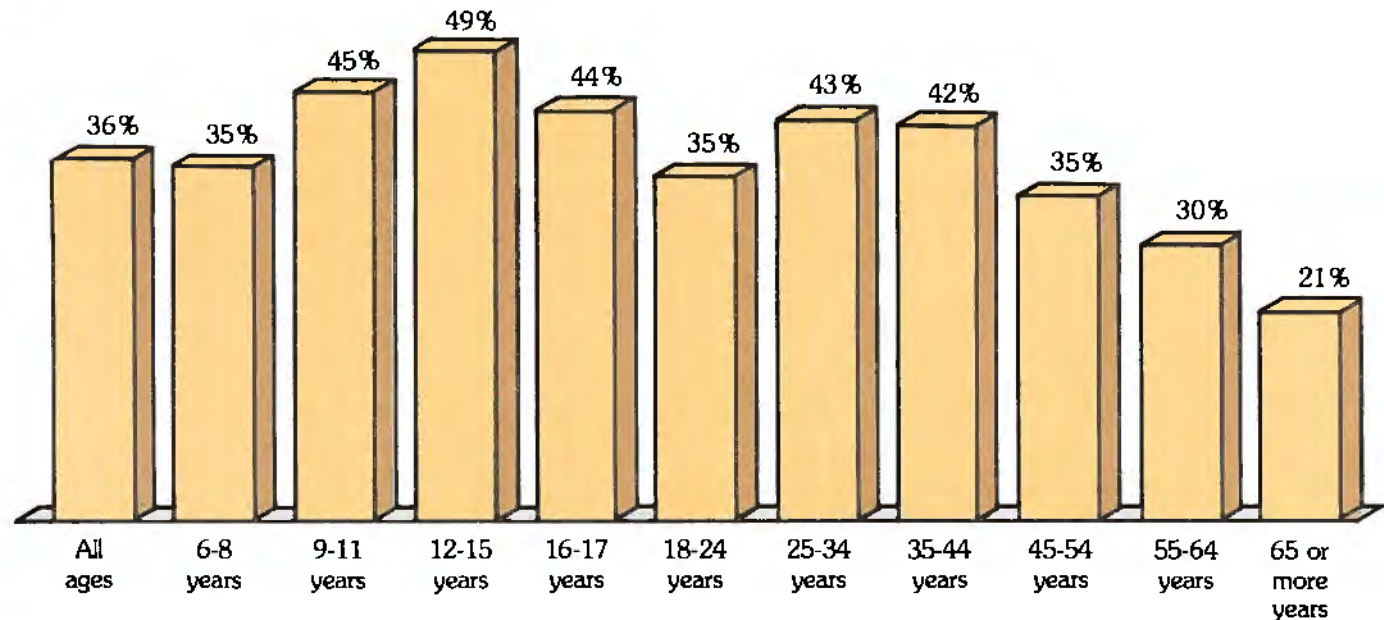
Substantial numbers of both men and women fished in 1980. Among men aged 16 and older, 36 percent participated compared to 15 percent of women. Of a total of 42.1 million fishermen, 69 percent were men and 31 percent were women. For men 16 and 17 years old, the participation rate was 44 percent. For those 25-34 years old, the rate was 43 percent for men and 20 percent for women; among those aged 65 and older, 21 percent of men and 6 percent of women fished in 1980. Because the 25-34-year-old category includes a large number of persons born during the baby boom that category now accounts for a large number of fishermen (11.8 million persons of both sexes).



Percent of fishermen by sex

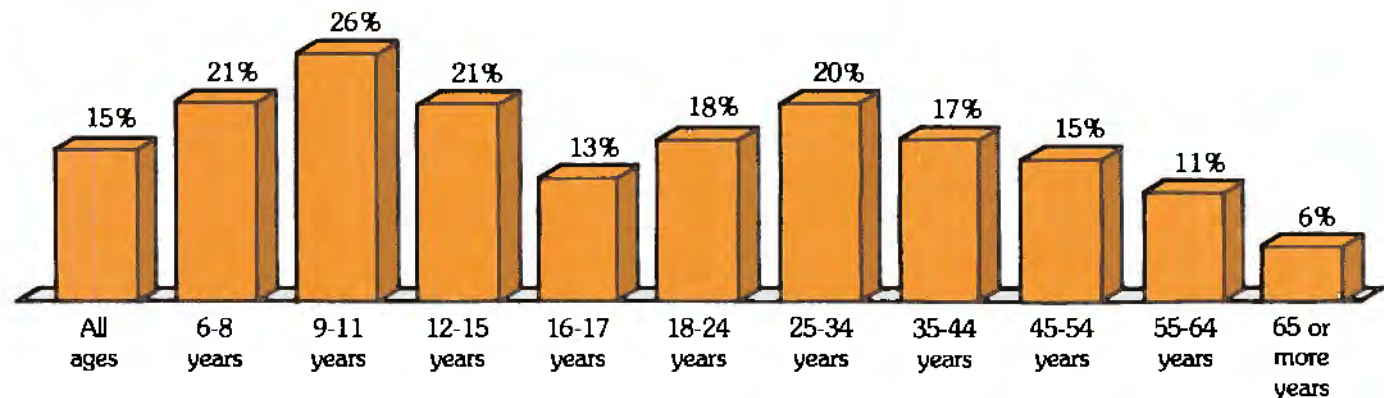
Men

(percent of age group who fished)



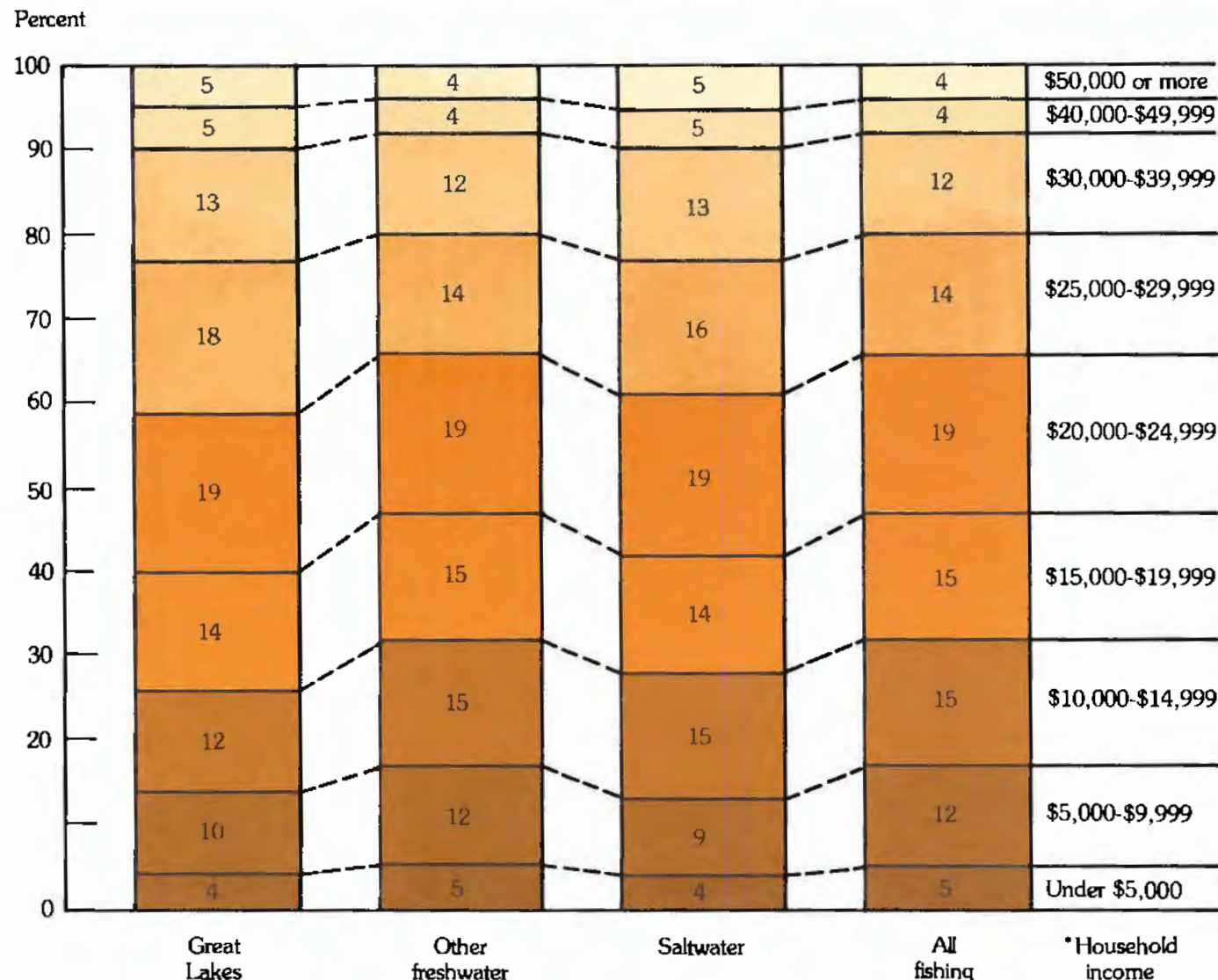
Women

(percent of age group who fished)



Household Income, by Type of Fishing

Fishermen come from all income groups in the U.S. population. Excluding those who did not report their income, 47 percent of all fishermen lived in households with annual incomes of less than \$20,000. For Great Lakes fishermen, 40 percent belonged to households with annual incomes of less than \$20,000 as did 42 percent of saltwater fishermen and 47 percent for other freshwater fishermen. At the other end of the income spectrum, 8 percent of all fishermen came from households with annual incomes of \$40,000 or more. When examined by type of fishing, 10 percent of Great Lakes fishermen and 10 percent of saltwater fishermen were members of households earning \$40,000 or more. The figure for other freshwater fishing was 8 percent.

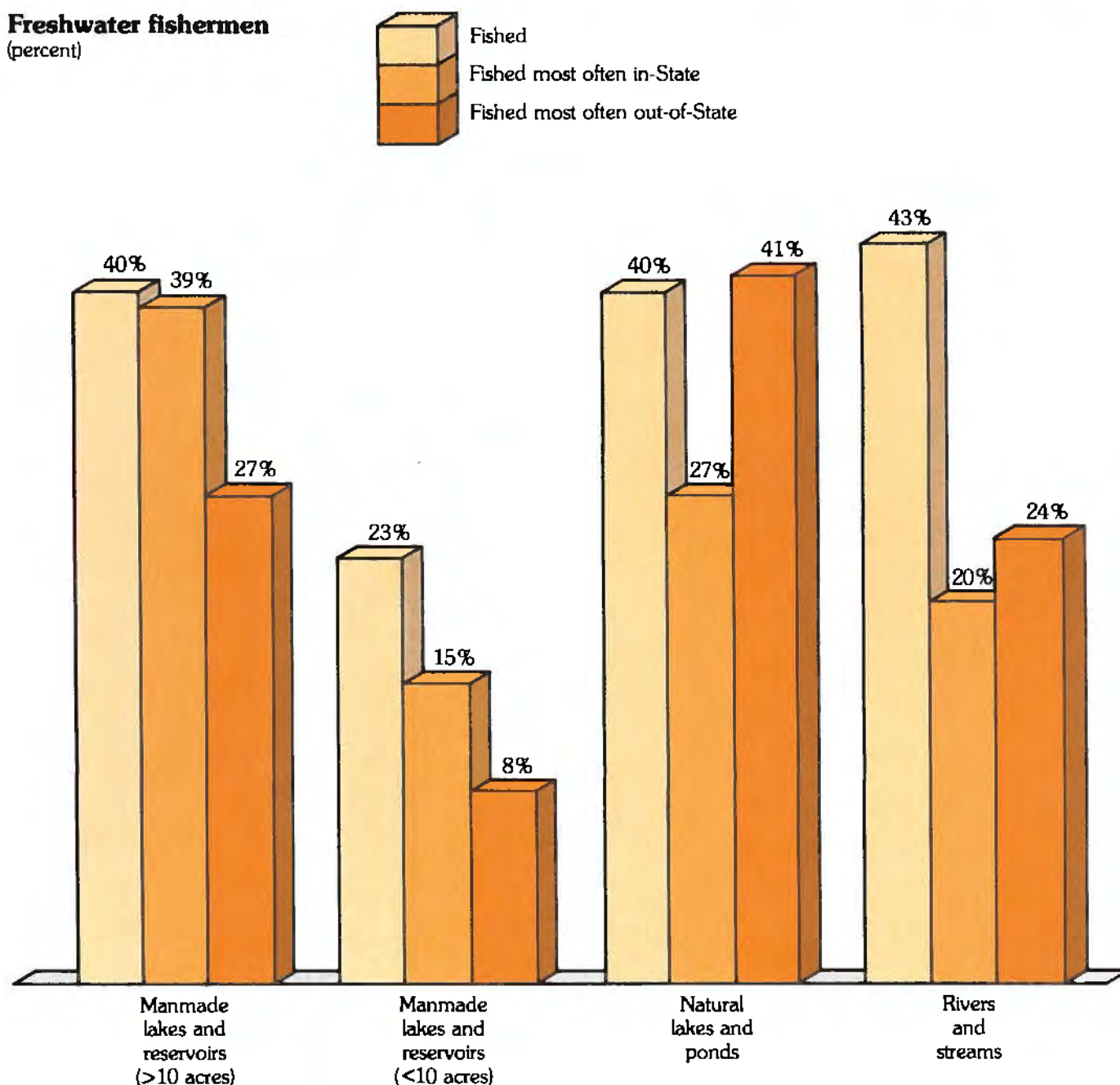


* 12 percent of all fishermen did not report their income.

Types of Freshwater Fished

Fishermen were asked the type of freshwater they fished in most often in their States of residence and in other States. Manmade lakes and reservoirs of 10 acres or more were fished most often in-State by 39 percent of freshwater fishermen. Manmade lakes and reservoirs of less than 10 acres were fished most often by 15 percent, natural lakes and ponds by 27 percent, and rivers and streams by 20 percent. Out-of-State, manmade lakes and reservoirs of 10 acres or more were fished most often by 27 percent of freshwater fishermen. Manmade lakes and reservoirs of less than 10 acres were fished most often by 8 percent, natural lakes and ponds by 41 percent, and rivers and streams by 24 percent.

Freshwater fishermen
(percent)

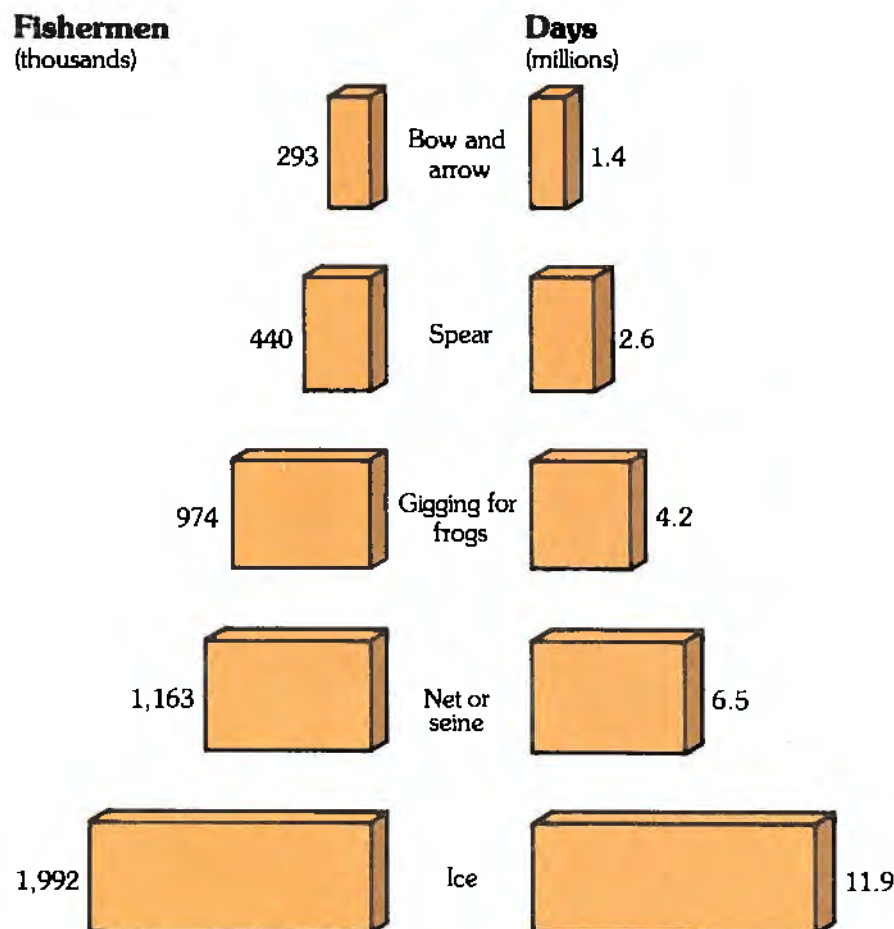


Special Fishing

Many fishermen engage in one or more special kinds of recreational fishing. In 1980, 2.0 million fishermen fished with hook and line through the ice (5 percent of all freshwater fishermen). Ice fishermen fished for 11.9 million fishing days. Recreational

fishing with a net or seine accounted for 1.2 million fishermen and 6.5 million fishing days. Spear and bow and arrow fishing accounted for smaller but still substantial numbers of fishermen and fishing days. Giggling for frogs drew 1 million fishermen and 4.2 million fishing days.

Fishermen
(thousands)

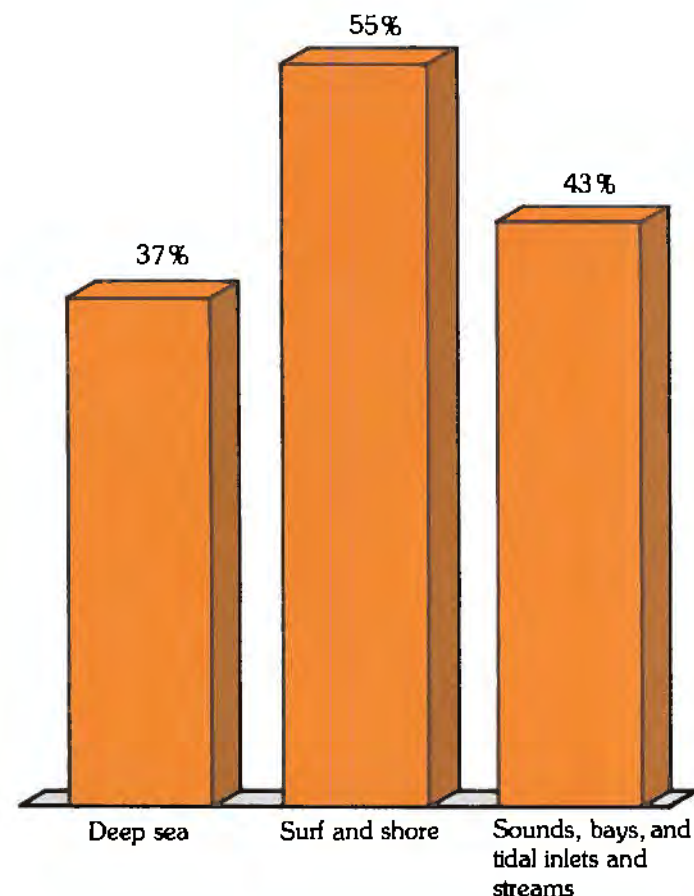


Types of Saltwater Fished

Saltwater fishing has been classified into three major categories. In the surf and shore category were 6.7 million anglers, 55 percent of the 12.3 million total. Another 5.3 million

saltwater anglers, 43 percent of the total, fished in saltwater sounds, bays, and tidal inlets and streams. Deep sea fishing accounts for 4.6 million saltwater anglers, 37 percent of the total.

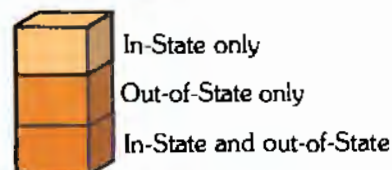
Saltwater fishermen
(percent)



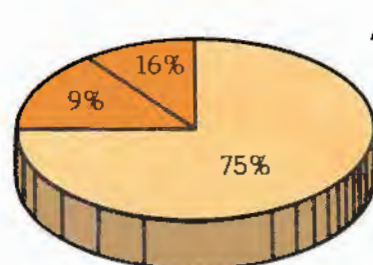
In-State and Out-of-State Fishing

An overwhelming number of American sport fishermen fished in their States of residence, although substantial numbers also traveled elsewhere to fish. Of all fishermen, 75 percent fished only in their States of residence, 9 percent fished only in other States, 16 percent fished in other States in addition to their own. Many fishermen fish both at home and in other States or countries. Among freshwater fishermen, 91 percent fished in their State of residence, and 21 percent fished in other States. Saltwater fishermen, not surprisingly, frequently traveled to other States; 76 percent of saltwater fishermen fished in their States of residence, 32 percent went to other States.

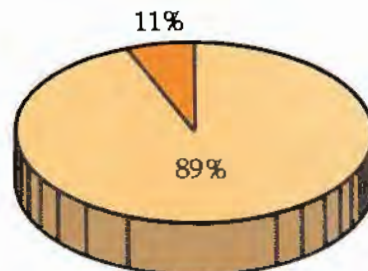
Fishermen



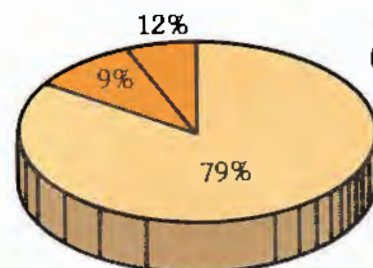
Days



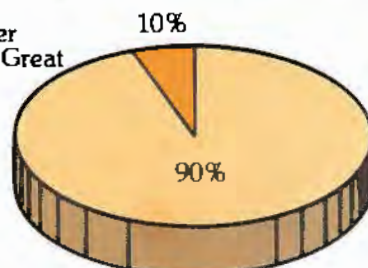
(42.1 million)



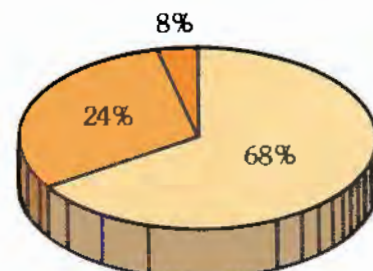
(857.6 million)



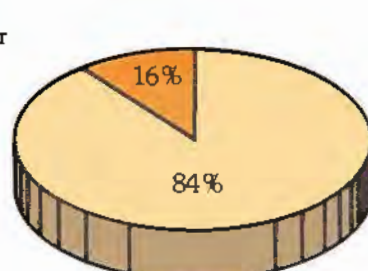
(35.3 million)



(674.4 million)



(12.3 million)



(147.0 million)



Hunting

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Summary

Millions of Americans take to the field in pursuit of game each fall for one or more of a variety of reasons that make hunting a popular outdoor activity. In 1980, 17.4 million hunters aged 16 and older took 314 million hunting trips totaling 330 million days of hunting, an average of 19 days per hunter. Including special equipment expenses, hunters spent \$8.5 billion on their sport, an average of \$26 per hunting day and \$490 per hunter for the year.

Big game species including deer, elk, and bear were hunted by 11.8 million hunters who logged 91 million hunting trips and 113 million days of hunting, an average of 10 days per hunter. Big game hunters spent \$2.8 billion, representing \$25 per hunting day and \$236 per hunter.

Small game hunting drew 12.4 million hunters who took 145 million hunting trips and hunted 151 million days, an average of 12 days per hunter. Small game hunters spent \$1.7 billion, an average of \$11 per hunting day and \$135 per hunter.

Ducks, doves, and other migratory birds were hunted by 5.3 million hunters who took 40 million hunting trips and hunted 43 million days, an average of 8 days per hunter. Total

expenditures for migratory bird hunting amounted to \$638 million, an average of \$15 per day hunting and \$120 per hunter.

Fox, raccoon and other species termed "other animals" for the purpose of the survey were hunted by 2.6 million hunters who took 38 million hunting trips and hunted 38 million days, an average of 15 days per hunter. Hunters of other animals spent a total of \$251 million, representing average spending of \$7 per hunting day and \$95 per hunter.

Men were much more likely to have hunted than women; the survey revealed that 20 percent of men and 2 percent of women had hunted. Roughly 92 percent of all hunters were men.

Towns and rural areas, where 16 percent of the population hunted, accounted for 69 percent of all hunters. Small cities and large cities, with 56 percent of the population, accounted for the remaining 31 percent of hunters.

In addition to modern rifles and shotguns, substantial numbers of hunters used other weapons. There were 2 million bow-and-arrow hunters, 800,000 used antique or primitive firearms, and 1.3 million used pistols or other handguns.

Publicly owned land provides hunting opportunities for millions of hunters. In 1980, 7.9 million hunters did some hunting on public lands, 45 percent of all hunters. In terms of management of public lands, 23 percent of hunters hunted State-managed areas, 19 percent hunted Federal areas, 13 percent hunted locally owned public lands, and 7 percent hunted public lands but could not report the type of ownership.

The overwhelming majority, 88 percent of all hunters, hunt only in the States in which they live. Some 8 percent hunted in their State of residence and in one or more other States, and 4 percent hunted only in States other than their home States.

Hunters are drawn from all income groups. Excluding those who did not report their income, 48 percent came from households with annual income in 1980 of less than \$20,000 (in 1980, the median household income for the United States was \$21,000).

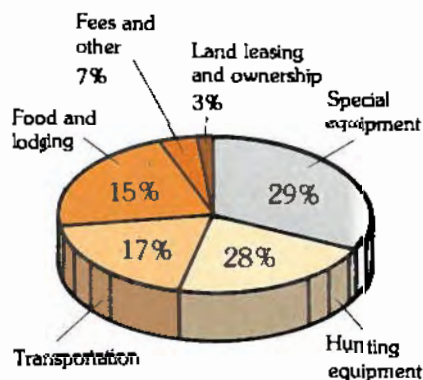
Major Highlights

Approximately 17.4 million Americans aged 16 and older hunted in 1980, 10 percent of the population. Hunters took 314.0 million hunting trips in 1980, totaling 330.2 million days of hunting and averaging 19 days. Around 12.4 million hunted small game, logging 145.2 million trips and 151.2 million hunting days. Among the other major categories of hunting, big game hunting was also popular with 11.8 million hunters, 91.4 million hunting trips, and 112.8 million days of hunting. Migratory bird hunting numbered 5.3 million hunters, 40.0 million hunting trips, and 42.9 million hunting days. Hunting for other animals accounted for 2.6 million hunters, 37.5 million hunting trips, and 38.4 million days of hunting.

Hunters spent about \$8.5 billion pursuing their quarry. That total represents average spending of \$26 per hunter per day, and \$490 per hunter during 1980. Of the total amount, 28 percent (\$2.4 billion) was spent on hunting equipment. An additional 29 percent (\$2.5 billion) was spent on special equipment used primarily for hunting. (Special

equipment spending was not differentiated by type of hunting.) Transportation expenditures of \$1.5 billion (17 percent), food and lodging costs of \$1.3 billion (15 percent), fees and other expenditures of \$560 million (7 percent), and land leasing and ownership costs of \$278 million (3 percent) made up the rest of the total.

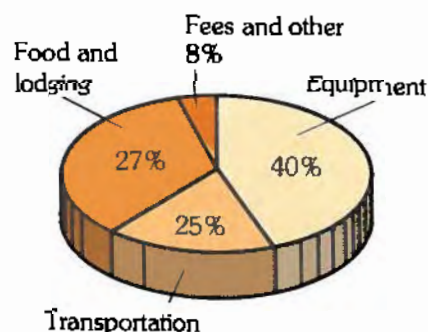
| | |
|--------------|-----------------|
| Hunters | 17.4 million |
| Trips | 314 million |
| per hunter | 18 |
| Days | 330.2 million |
| per hunter | 19 |
| Expenditures | \$8,545 million |
| per hunter | \$490 |
| per day | \$26 |



Big Game Hunting

Deer, elk, and other big game species were hunted by 11.8 million hunters aged 16 and over in 1980. Big game hunters took 91.4 million hunting trips and hunted big game on 112.8 million days, an average of 8 trips and 10 days per hunter. They spent a total of \$2.8 billion. Of this amount, \$1.1 billion (40 percent) was spent for hunting equipment. Food and lodging cost of \$759 million (27 percent) and transportation spending of \$685 million (25 percent) were also reported. Fees and other expenditures of \$226 million (8 percent) made up the remainder. Big game expenditures averaged \$236 per hunter and \$25 per day of hunting.

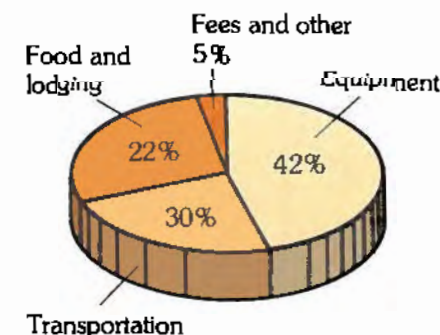
| | |
|--------------|-----------------|
| Hunters | 11.8 million |
| Trips | 91.4 million |
| per hunter | 8 |
| Days | 112.8 million |
| per hunter | 10 |
| Expenditures | \$2,789 million |
| per hunter | \$236 |
| per day | \$25 |



Small Game Hunting

An estimated 12.4 million hunters sought small game in 1980, logging 145.2 million hunting trips and 151.2 million days of hunting. The average small game hunter spent 12 days in the field pursuing that sport. Small game hunters spent a total of \$1.7 billion. Of that amount, \$705 million (42 percent) was for purchasing hunting equipment. Transportation costs of \$502 million (30 percent) and food and lodging expenditures of \$366 million (22 percent) accounted for other major purchases. Fees and other spending of \$91 million (5 percent) made up the rest. On the average, small game spending was \$135 per hunter and \$11 per day.

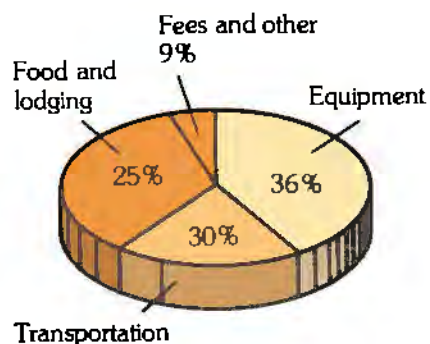
| | |
|--------------|-----------------|
| Hunters | 12.4 million |
| Trips | 145.2 million |
| per hunter | 12 |
| Days | 151.2 million |
| per hunter | 12 |
| Expenditures | \$1,663 million |
| per hunter | \$135 |
| per day | \$11 |



Migratory Bird Hunting

Migratory birds, including ducks, geese, doves, and other species, were hunted by 5.3 million hunters in 1980. A total of 40.0 million trips were taken and 42.9 million days were spent hunting migratory birds. On the average, migratory bird hunters spent 8 days afield. Total expenditures were \$638 million with equipment expenditures amounting to \$232 million, or 36 percent of the total. Transportation costs of \$188 million (30 percent) and food and lodging costs of \$161 million (25 percent) made up the other major categories. Fees and other expenditures of \$56 million (9 percent) accounted for the remainder of total spending. On average, spending amounted to \$120 per hunter and \$15 per day.

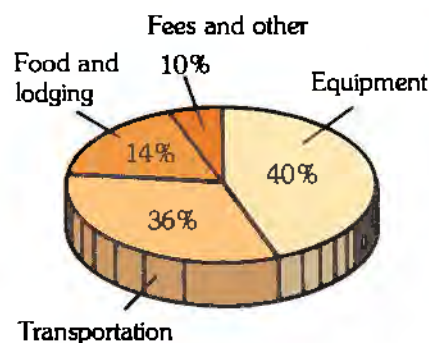
| | |
|--------------|---------------|
| Hunters | 5.3 million |
| Trips | 40.0 million |
| per hunter | 8 |
| Days | 42.9 million |
| per hunter | 8 |
| Expenditures | \$638 million |
| per hunter | \$120 |
| per day | \$15 |



Hunting Other Animals

Other animals, including raccoon, fox, woodchuck, coyote, and crows were hunted by 2.6 million hunters. On 37.5 million trips, they accounted for 38.4 million hunting days, an average of 15 days per hunter. These hunters spent a total of \$251 million pursuing their sport. Equipment costs of \$100 million accounted for 40 percent of that total. Transportation expenses consisted of \$91 million (36 percent), and food and lodging costs were \$35 million (14 percent). Fees and other expenditures amounting to \$26 million (10 percent) made up the remainder. On average, hunters of other animals spent \$95 during the season, \$7 per day.

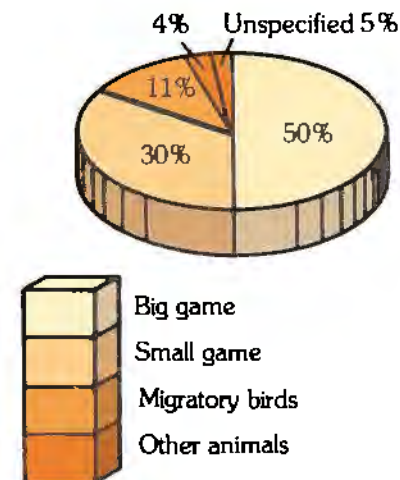
| | |
|--------------|---------------|
| Hunters | 2.6 million |
| Trips | 37.5 million |
| per hunter | 14 |
| Days | 38.4 million |
| per hunter | 15 |
| Expenditures | \$251 million |
| per hunter | \$95 |
| per day | \$7 |



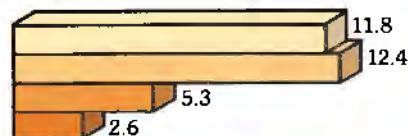
Comparative Highlights of Types of Hunting

Small game hunting attracted a considerable number of hunters and days of hunting. In terms of expenditures, however, big game hunting, at \$2.8 billion, accounted for one-half of all expenditures, representing \$236 per hunter and \$25 per hunting day. The category "other animals" attracted a relatively small number of hunters but hunters who devote considerable time to that sport, an average of 15 days per year.

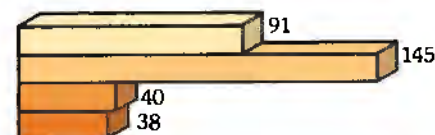
Expenditures, by type of hunting



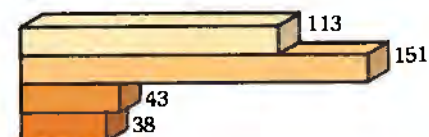
Hunters (millions)



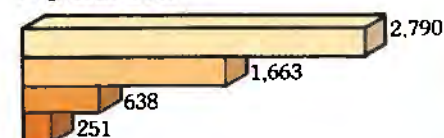
Trips (millions)



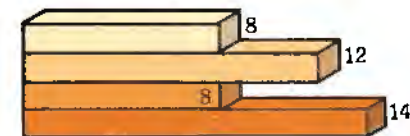
Days (millions)



Expenditures (millions of dollars)



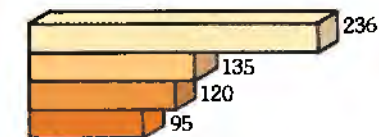
Trips per hunter



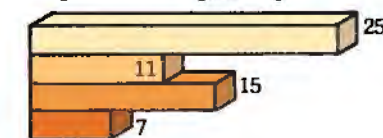
Days per hunter



Expenditures per hunter



Expenditures per day



Hunting for Selected Types of Game

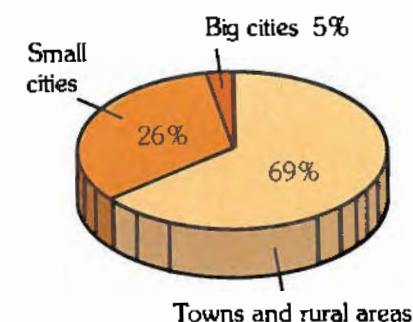
The estimates of numbers of hunters and days of hunting in the accompanying table display the relative popularity of the various species. The estimates should all be interpreted in relation to the standard errors discussed in appendix C.

| Game | Hunters (thousands) | Days (thousands) |
|--------------------------------|------------------------|---------------------|
| BIG GAME | | |
| Deer | 11,400 | 102,496 |
| Elk | 760 | 4,984 |
| Antelope | 120 | 486 |
| Moose | 50 | 352 |
| Bear | 561 | 3,932 |
| Wild turkey | 1,471 | 9,875 |
| Other | 287 | 2,456 |
| SMALL GAME | | |
| Rabbits and hares | 7,581 | 78,794 |
| Quail | 3,671 | 36,989 |
| Grouse | 2,309 | 21,440 |
| Hungarian and chukar partridge | 659 | 6,209 |
| Squirrels | 6,329 | 65,962 |
| Pheasant | 4,214 | 34,655 |
| Other | 211 | 2,686 |
| MIGRATORY BIRDS | | |
| Geese | 1,397 | 11,572 |
| Ducks | 2,736 | 22,202 |
| Coots, rails, and gallinules | 134 | 1,198 |
| Woodcock | 491 | 3,754 |
| Doves | 3,026 | 18,775 |
| Band-tailed pigeon | 86 | 784 |
| Other | 71 | 542 |
| OTHER ANIMALS | | |
| Crows | 481 | 4,530 |
| Woodchucks | 702 | 10,443 |
| Raccoons | 1,103 | 18,398 |
| Fox | 536 | 6,032 |
| Coyote | 655 | 7,610 |
| Other | 311 | 4,703 |

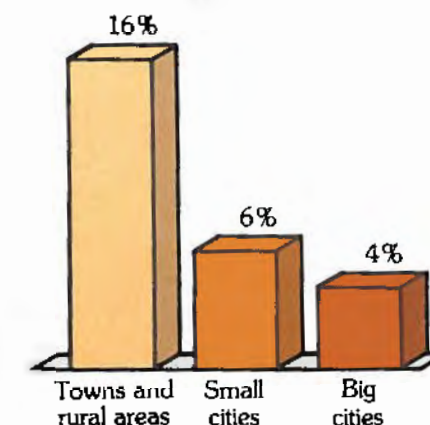
Participation Rates, by Area of Residence

Hunting is overwhelmingly a sport of those who live in towns and rural areas. That category accounts for 69 percent of all hunters but only 45 percent of the total population surveyed. Small cities (2,500-499,999 population) accounted for 26 percent of all hunters and 42 percent of the population, whereas big cities (500,000 or more) included 5 percent of hunters and 14 percent of the population.

Percent of hunters



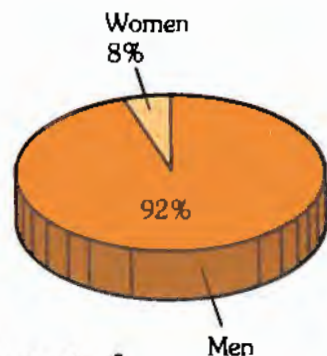
Percent of population that hunts



Participation of Men and Women

Men were much more likely to have hunted in 1980 than women. The survey revealed that 18 percent of men had hunted compared to 2 percent of women. About 92 percent of all hunters were men whereas 8 percent were women.

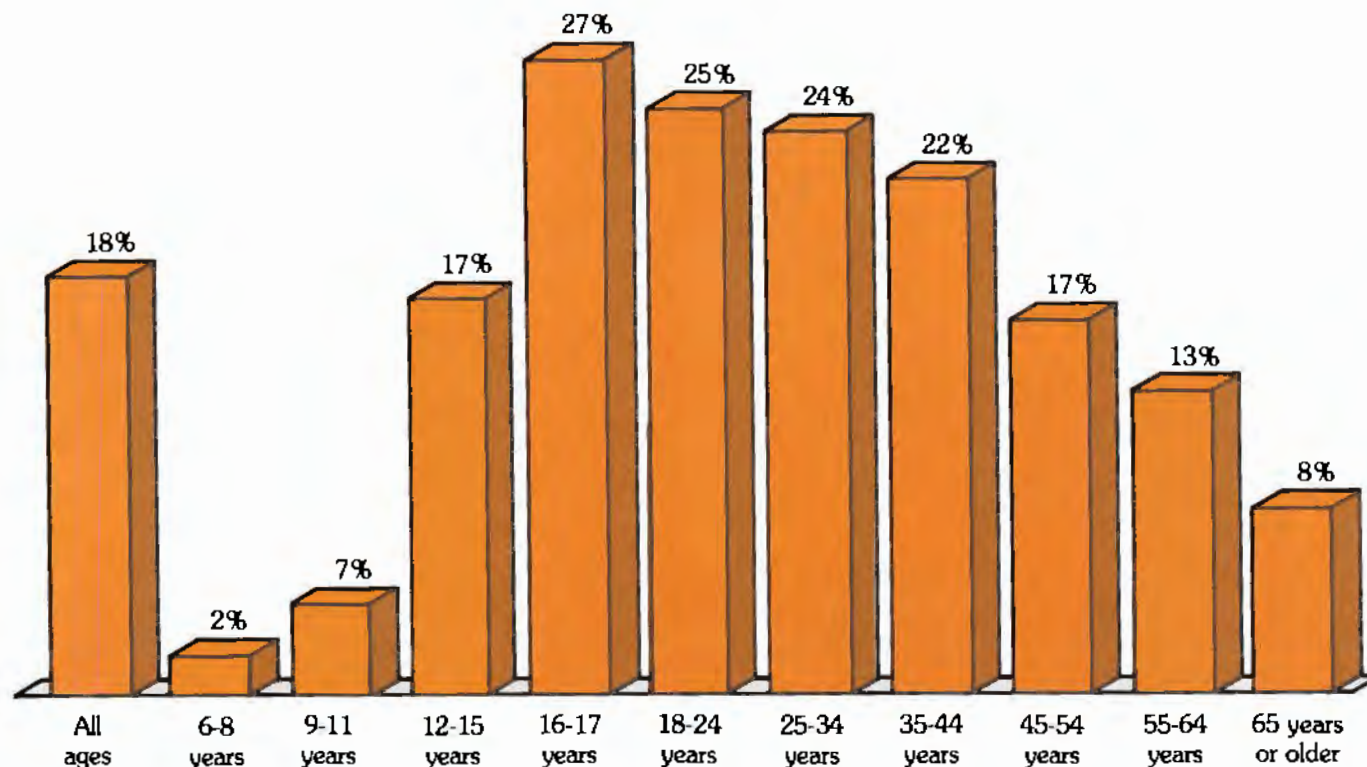
Among men 16-17 years old, 27 percent hunted. For men aged 65 and older, 8 percent hunted. The percent of women in the various age groups that hunt is not displayed because the rates of participation in each group are very small.



Percent of hunters by sex

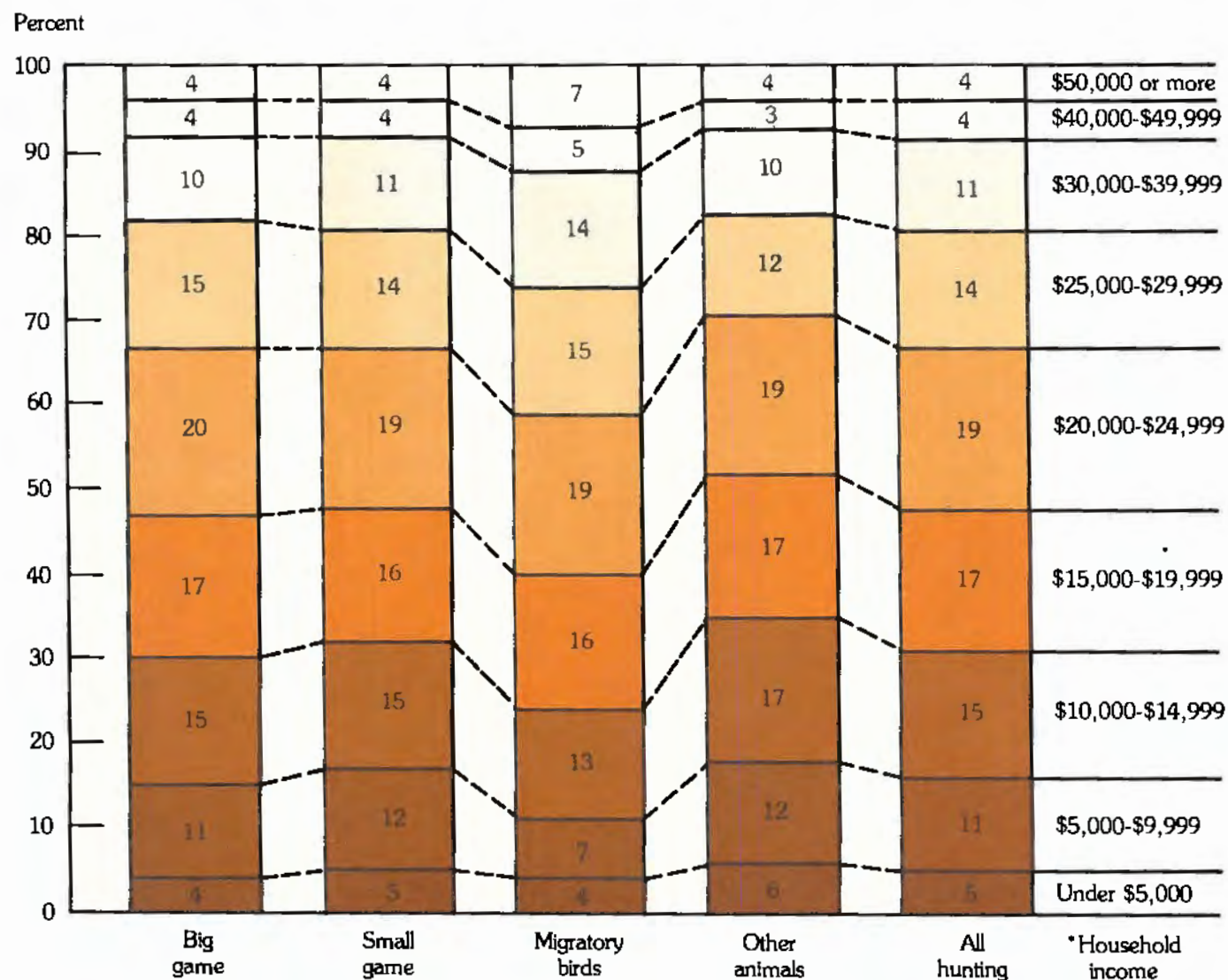
Men

(percent of age group who hunted)



Household Income, by Type of Hunting

Hunters are drawn from all economic groups in the American population. Excluding those not reporting their household income, 48 percent of all hunters came from households with annual incomes of less than \$20,000 in 1980. For big game hunting, 47 percent had household incomes of less than \$20,000, 48 percent for small game, 40 percent for migratory birds, and 52 percent for the other animals category.



* 12 percent of all hunters did not report their income.

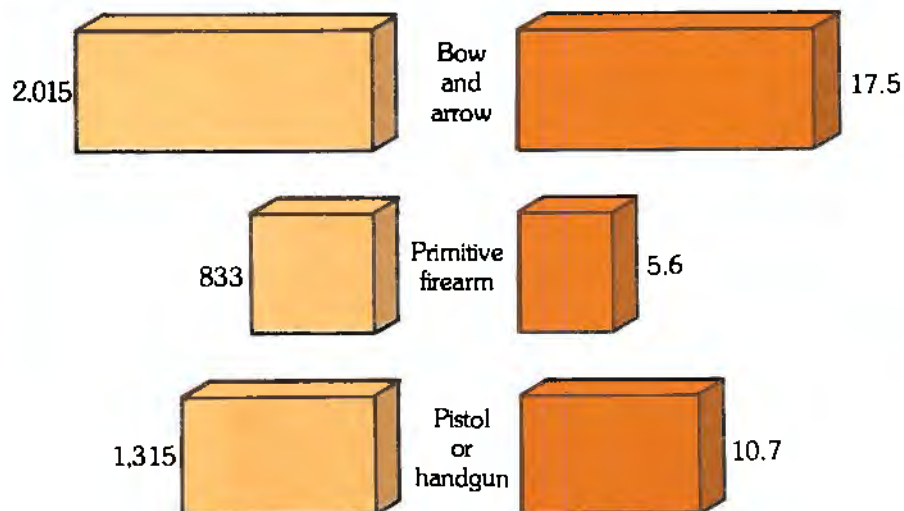
Special Hunting

In addition to hunting with modern firearms, substantial numbers of hunters use other weapons. About 2.0 million hunters used bows and arrows to hunt. Bow-and-arrow hunters accounted for 17.5 million

days of hunting. Primitive or antique firearms were used by 833,000 hunters and accounted for 5.6 million days afield. Pistols or other handguns were used by 1.3 million hunters. Hunters with handguns tallied 10.7 million days.

Hunters

(thousands)

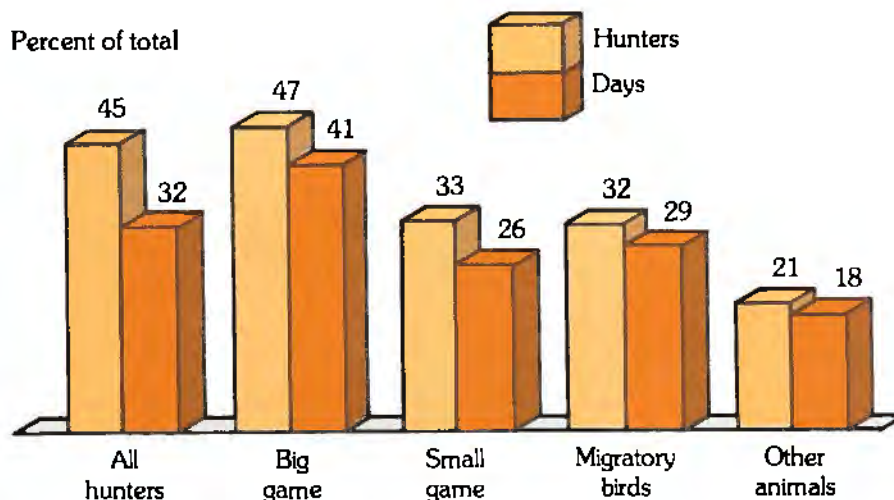


Hunting on Public Lands

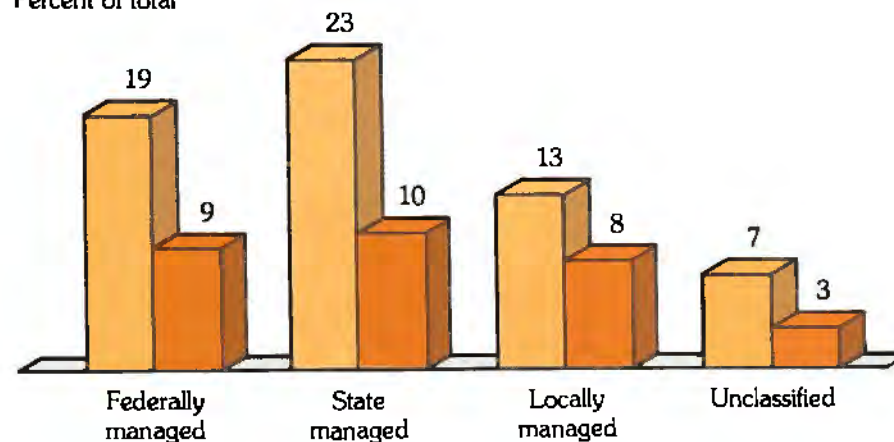
Publicly owned land provides hunting opportunities for millions of hunters. In 1980, 7.9 million hunters, 45 percent of the total, did some hunting on public lands. Approximately 104.4 million hunting

days (32 percent) were spent on public lands. In terms of the type of public ownership, 23 percent of hunters hunted State-managed areas, 19 percent hunted Federal areas, 13 percent hunted locally owned public lands, and 7 percent hunted public lands but were unsure of the ownership.

Percent of total

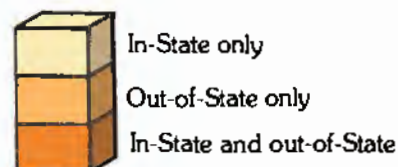


Percent of total

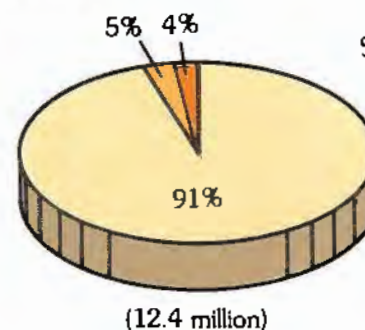


In-State and Out-of-State Hunting

In 1980, 88 percent of all hunters hunted only in their States of residence, 7 percent hunted in their States of residence and in one or more other States, and 5 percent hunted exclusively in States other than their own. A fraction of a percent hunted in other countries. Those percentages varied only slightly depending on the type of hunting.

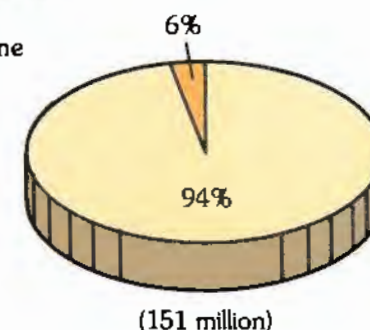


Hunters

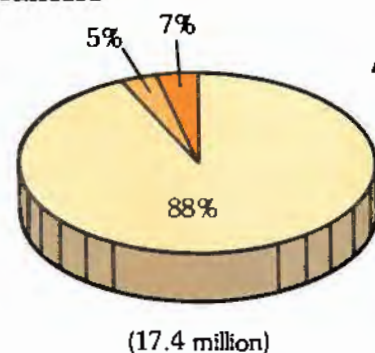


Days

Small game

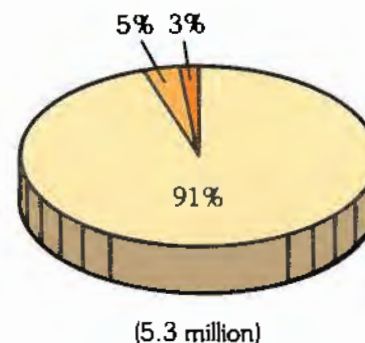
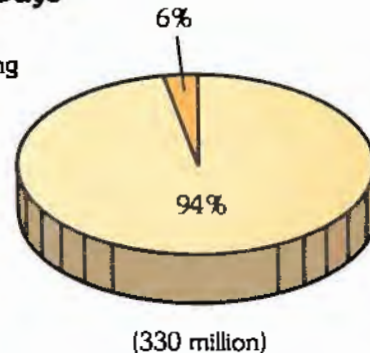


Hunters

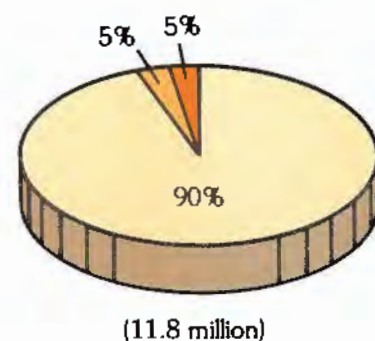
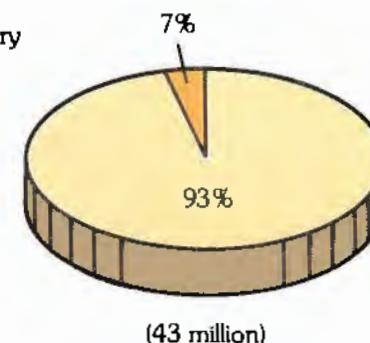


Days

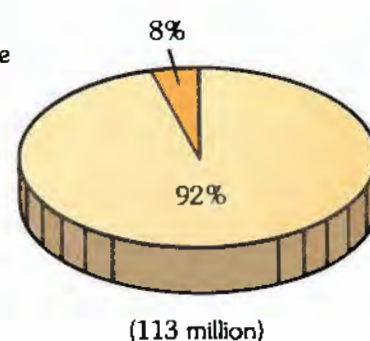
All hunting



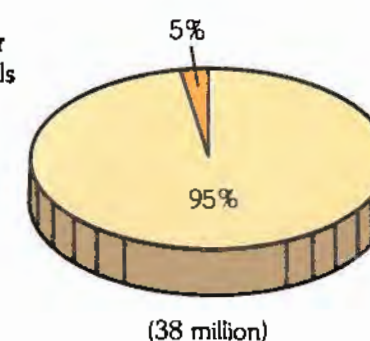
Migratory birds

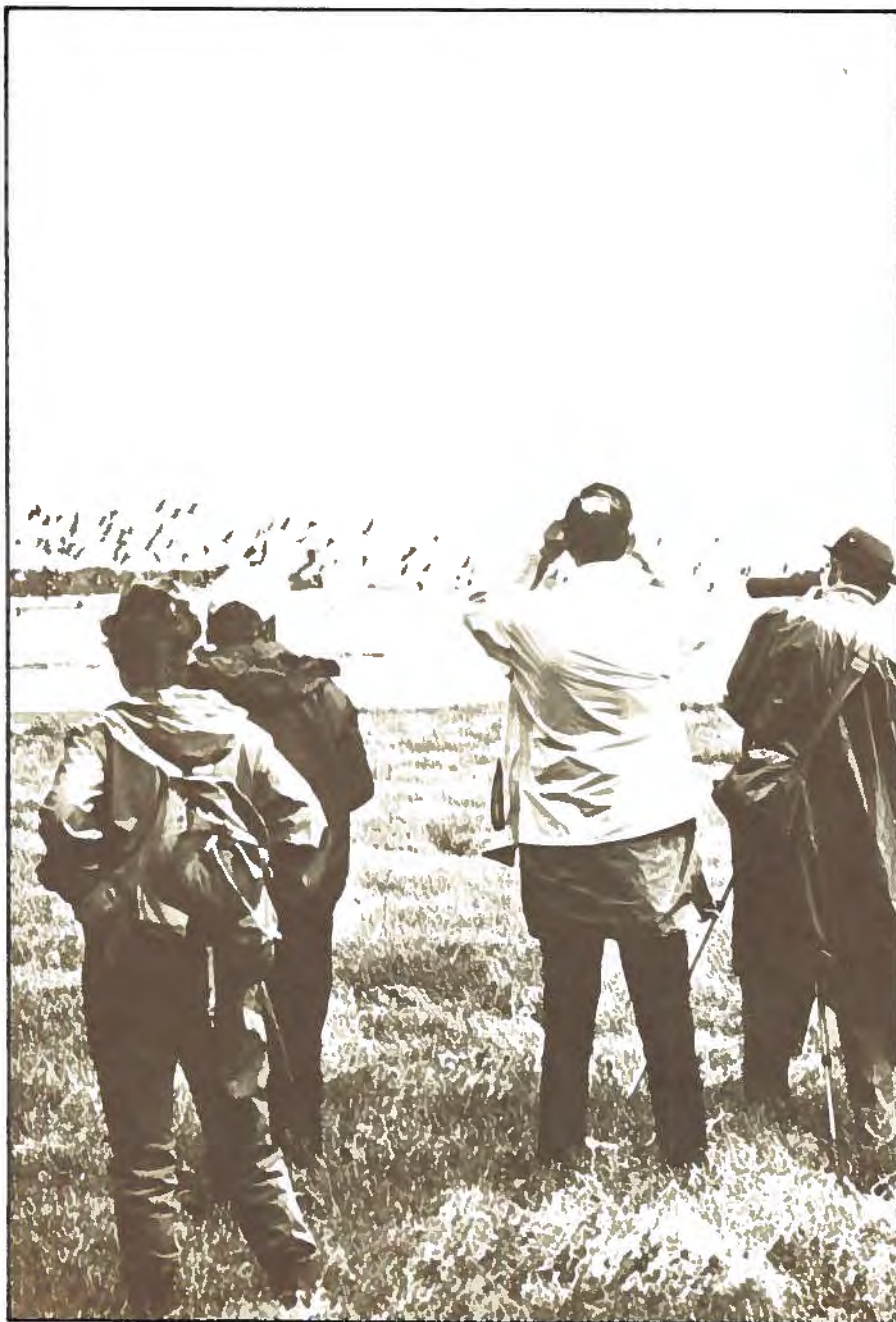


Big game



Other animals





Nonconsumptive Wildlife Use

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Summary

Framework

For millions of Americans, enjoying wildlife means some form of wildlife observation, photography, feeding, or other nonharvesting activity. Placing all such activities under the general heading of nonconsumptive wildlife use has gained increased acceptance in recent years. The 1980 National Survey marked the first time that detailed data were gathered on nonconsumptive wildlife-associated activities. The nonconsumptive phase was a limited effort compared to the survey of fishing and hunting; the number of interviews with nonconsumptive users totaled less than one-fifth the number of sportsmen interviewed. Nonetheless, a large amount of information was generated.

One of the difficulties in discussing nonconsumptive activities is that in some circumstances the term can mean different things to different people. To try to make terminology in this report as clear as possible, the nonconsumptive sections of the survey were based on a framework with two key criteria: (1) whether involvement with wildlife was the primary purpose of the activity or secondary to some other purpose and (2) whether the activity was residential (in the immediate vicinity of home) or nonresidential (more than 1 mile from home). The two criteria result in four combinations:

| | Non-residential | Residential |
|-----------|-----------------|-------------|
| Primary | ✓ | ✓ |
| Secondary | ✓ | ✓ |

Primary nonresidential

Trips or outings of at least 1 mile for the primary purpose of observing, photographing, or feeding wildlife. (Trips to zoos, circuses, aquariums, and museums and trips to fish or hunt are not included.)

Primary residential

Activities around the home whose primary purpose is wildlife related, including (1) closely observing or trying to identify birds or other wildlife, (2) photographing wildlife, (3) feeding birds or other wildlife on a regular basis, (4) maintaining natural areas of at least 1/4 acre for which benefit to wildlife is an important concern, (5) maintaining plantings (shrubs, agricultural crops, etc.) for which benefit to wildlife is an important concern, and (6) visiting public parks within 1 mile of home for the purpose of observing, photographing, or feeding wildlife.

Secondary nonresidential

Enjoyment from seeing or hearing wildlife while on a trip or outing of at least 1 mile that is taken for another purpose, such as camping, driving for pleasure, or boating.

Secondary residential

Enjoyment from unplanned opportunities to see or hear wildlife while pursuing other activities around the home (e.g., enjoying birds while doing yardwork).

Some Highlights

A total of 93.2 million Americans 16 years of age and older participated in

at least one of the four categories of nonconsumptive activity in 1980. An estimated 83.2 million participated in a primary activity. Participants in secondary activities totaled 88.3 million individuals. About 94 percent of all those who participated in a primary activity also took part in a secondary activity.

Close to 28.8 million Americans participated in primary nonresidential activities in 1980, representing nearly one in every five adults. Of all participants in primary activities, 35 percent took at least one trip for the primary purpose of observing, photographing, or feeding wildlife.

Participants in primary activities around the home numbered 79.7 million in 1980, or nearly one in every two individuals 16 years of age and older. Of these individuals, 70 percent observed wildlife around the home, 78 percent fed wild birds, and 16 percent photographed. In addition, 26 percent fed other kinds of wildlife, 13 percent maintained natural areas for the benefit of wildlife, 16 percent maintained plantings, and 17 percent visited public parks and/or natural areas near their homes primarily to observe, photograph, or feed wildlife.

Of the 88.3 million Americans who participated in secondary activities, 69.4 million, or 79 percent, reported enjoying wildlife on trips taken for some purpose other than observing, photographing, or feeding wildlife. About 80.5 million individuals, 47 percent of the adult population, indicated that they enjoyed unplanned opportunities to hear or see wildlife around the home.

A total of 377.4 million days were spent on trips to observe, photograph, or feed wildlife in 1980. Wildlife observation accounted for 374.1 million days, and wildlife photography and feeding accounted for 74.5 million and 128.5 million days, respectively. About 5 billion days were spent by Americans observing and/or photographing wildlife in residential settings.

Substantial numbers of young people aged 6 to 15 engage in nonconsumptive activities in addition to the 16 years old and older group that is the focus of this report. About 5.3 million youths, 15 percent of the 6 to 15 age group, participated in primary nonresidential activities. Roughly 9.0 million youths engaged in primary residential activities, 25 percent of the total. As with the older age group, activities in which wildlife was of secondary importance were reported by large numbers. Some 16.3 million youths enjoyed wildlife while on trips taken for another purpose (secondary nonresidential), 46 percent of the population 6 to 15 years old. About 21.8 million youths, or 62 percent, enjoyed wildlife around home while engaged in other activities (secondary residential).

Participants in nonconsumptive wildlife-associated recreation came from a wide range of socioeconomic groups. About 49 percent of women and 49 percent of men participated in at least one primary nonconsumptive activity. Roughly 53 percent of all Whites participated in at least one primary activity, and 26 percent of all Blacks and 28 percent of other racial groups took part in such activities. Participation in nonconsumptive activities by income category ranged from 60 percent of all those in the \$20,000-\$24,999 household income category to 37 percent of all those with annual incomes of less than \$5,000. Participation rates for most income categories were around 50 percent.

Sportsmen represented a large percentage of all nonconsumptive users. Of those who engaged in at least one nonconsumptive activity, 37 percent also fished and/or hunted. With regard to specific nonconsumptive activities, sportsmen represented 42 percent of those who took trips primarily to observe wildlife and 34 percent of those who fed wild birds around the home.

About 65 percent of all fishermen and hunters participated in at least one primary nonconsumptive activity in 1980. An estimated 46 percent of all sportsmen fed wild birds around their homes and roughly one-fourth took trips primarily to observe, photograph, or feed wildlife. This figure does not include trips for the purpose of scouting game or places to hunt.

Both game and nongame types of fish and wildlife were the focus of nonconsumptive activities. Roughly 60 percent of all wildlife observed, photographed, or fed on trips were nongame species in comparison to 40 percent that were fish and game species.

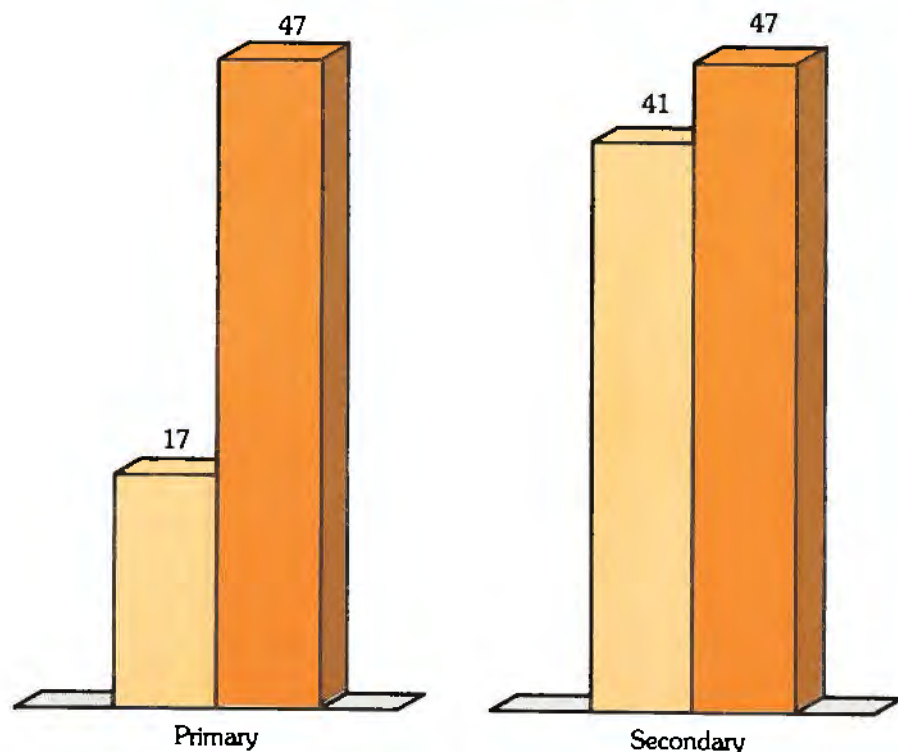
Expenditures for nonconsumptive wildlife-associated recreational activities totaled \$14.7 billion in 1980. Of this total, \$10.7 billion, or 73 percent of the total, was spent on equipment. If equipment purchases not used primarily for nonconsumptive activities are excluded, total expenditures are reduced to \$6.6 billion and equipment expenditures to \$2.6 billion. Travel-related expenditures (food, lodging, and transportation) were \$4.0 billion, or 27 percent of the total. On average, they represent \$11 per day per traveler or \$139 per year.

Participation in Nonconsumptive Activities

Some 93.2 million Americans 16 years old and older participated in nonconsumptive wildlife-associated activities in 1980. Of these, 28.8 million, or 17 percent of the population, took trips primarily to observe, photograph, or feed wildlife (primary nonresidential). About 79.7 million, or 47 percent of

the population, showed an active interest in wildlife around the home (primary residential). Roughly 69.4 millions persons, or 41 percent of the population, reported enjoying wildlife on trips taken for another purpose (secondary nonresidential). Finally, 80.5 million, or 47 percent of the population, experienced unplanned opportunities to enjoy wildlife while engaged in other activities around the home (secondary residential).

Percent of population

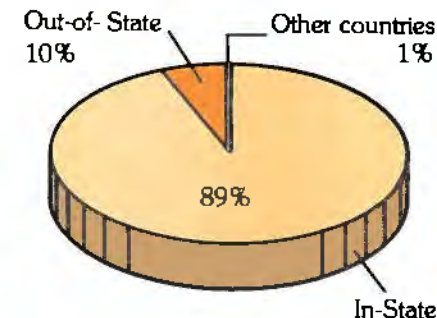


Primary Purpose Trips To Observe, Photograph, or Feed Wildlife

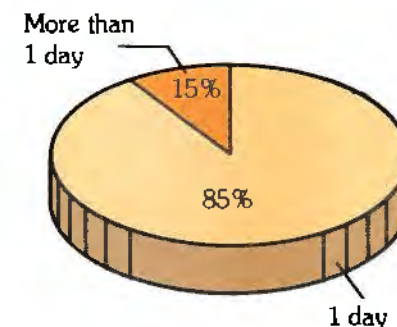
About 28.8 million Americans participated in primary nonresidential activities in 1980. This figure represents 17 percent of the adult population 16 years of age and older in the United States. Roughly 90 percent of those who took primary purpose trips in 1980 did so in their States of residence, 24 percent took trips to other States, and 4 percent took trips to other countries.

Participants observed wildlife on 99 percent of all days on these trips, photographed on 70 percent of the days, and fed wildlife on 34 percent. (The sum of the percentages exceeds 100 percent because more than one activity could occur on a given day.)

Trips

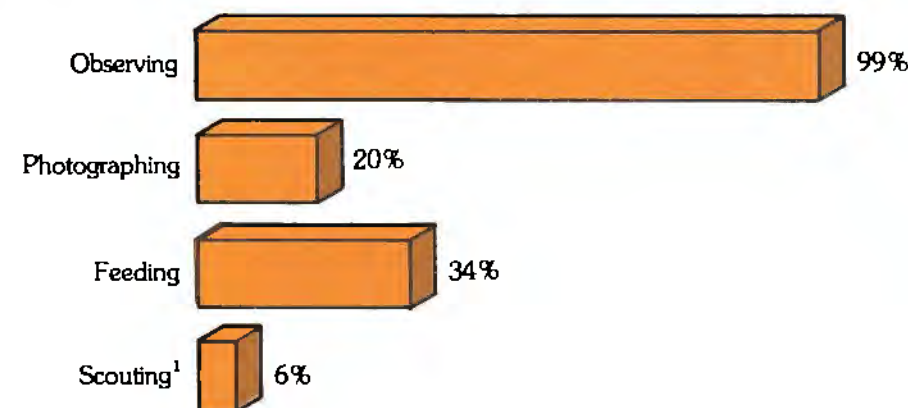


Length of trip



Days

(percent)



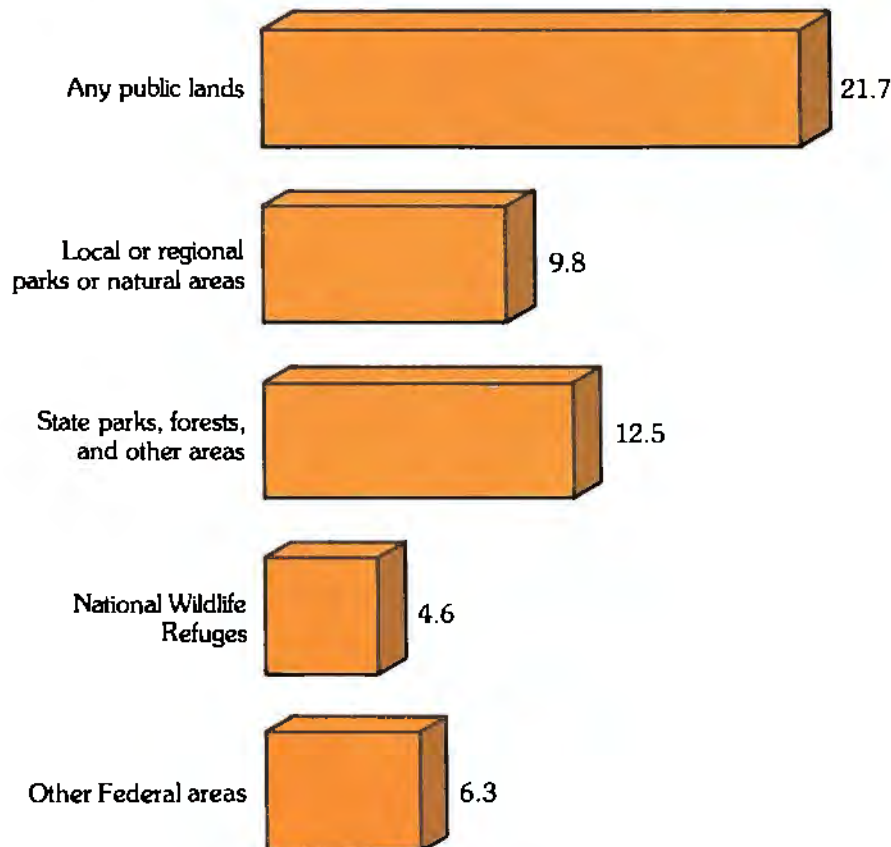
¹Includes days spent in other countries.

Primary Nonresidential Areas Visited at Least Once

About 75 percent of all those who took trips in 1980 indicated that they had visited public lands at least once. Of those who visited public areas, 44 percent had gone to State parks

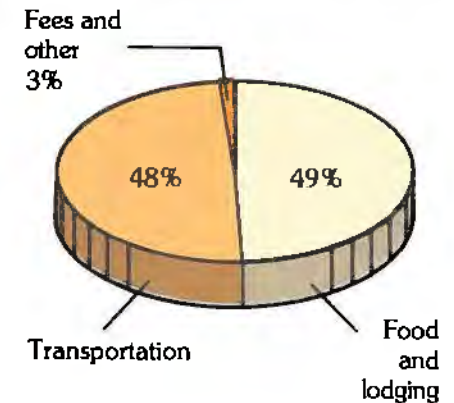
or forests. Local or regional parks or natural areas were visited by 34 percent of those who took trips. National Wildlife Refuges were visited by 16 percent. Other Federal lands were used by 22 percent of those who took trips to observe, photograph, or feed wildlife.

Participants (millions)



Expenditures on Primary-Purpose Trips

Of the 28.8 million individuals who took trips primarily to observe, photograph, or feed wildlife, 90 percent reported some travel-related expenditures. About \$4.0 billion were spent for travel in 1980. An estimated \$1.9 billion, 48 percent of the total, was spent for transportation, and \$2.0 billion (49 percent) was spent for food and lodging. Fees (3 percent) accounted for the remainder of these travel-related costs.



Primary Residential Activities

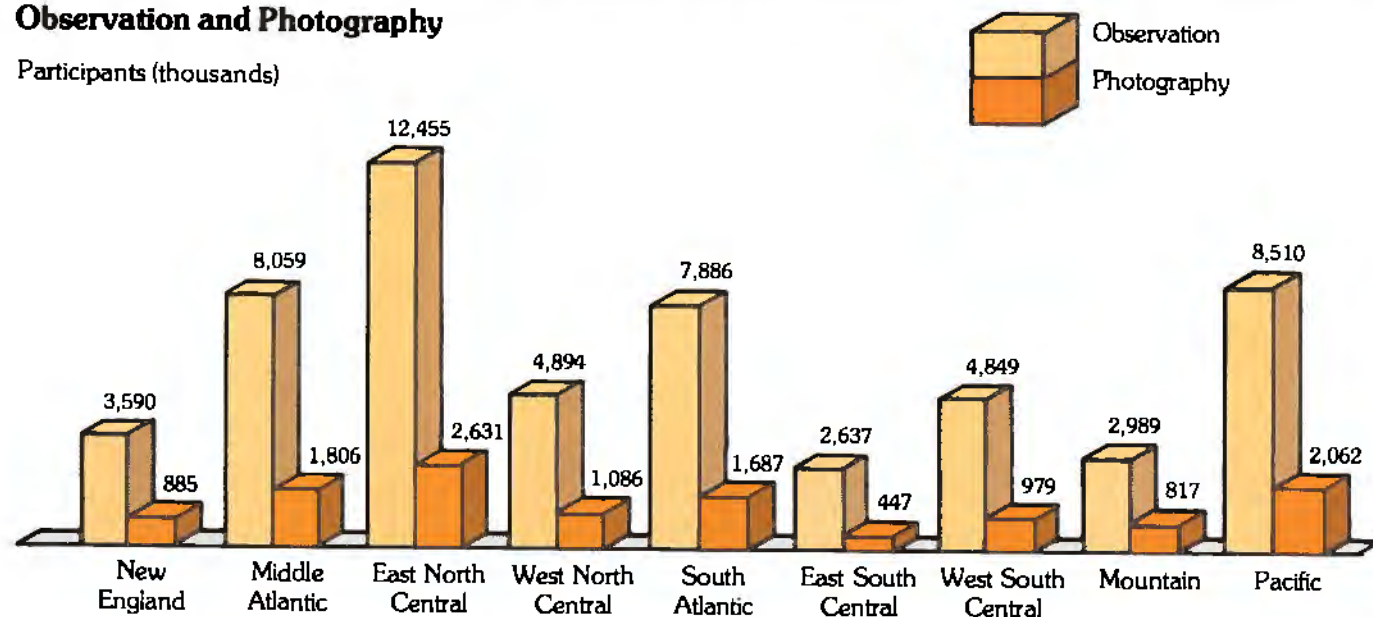
Participants in primary activities around the home numbered 79.7 million, or roughly one of every two individuals 16 years of age and older in 1980. The residential activities in which individuals engaged included wildlife observation (33 percent of the population), photography (7 percent), feeding wild birds (37 percent), feeding other wildlife (12 percent), maintaining natural areas of $\frac{1}{4}$ acre or more (6 percent), maintaining food or cover plantings (7 percent) to benefit wildlife, and visiting public parks and natural areas within 1 mile of home (8 percent).

Roughly one-third of the U.S. population, 62.5 million, fed wild birds (once per week for at least 1 month) in 1980. Individuals fed birds for an average of 6 months during the year.

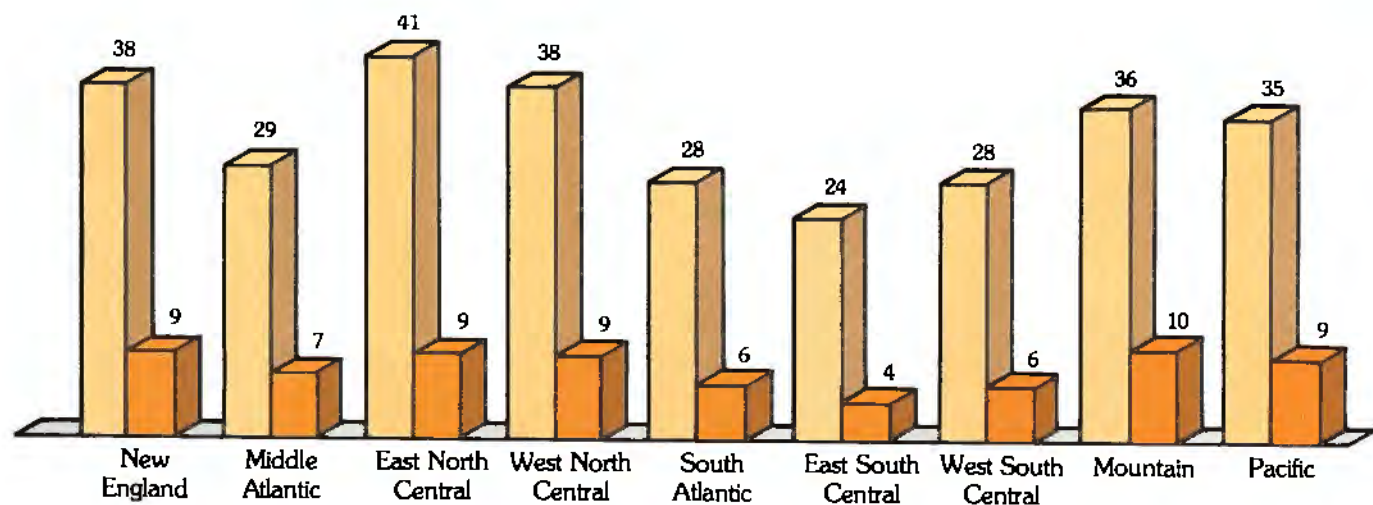
About 43 percent of all birdfeeders reported maintaining regular feeders. Seed was used by 56 percent of those who fed birds in contrast to 74 percent who reported that they fed birds with crumbs and table scraps. An additional 16 percent fed with suet while 7 percent put out sugar water for hummingbirds.

Observation and Photography

Participants (thousands)

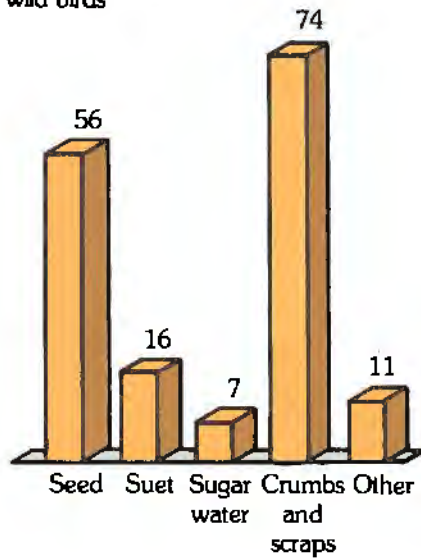


Percent of regional population

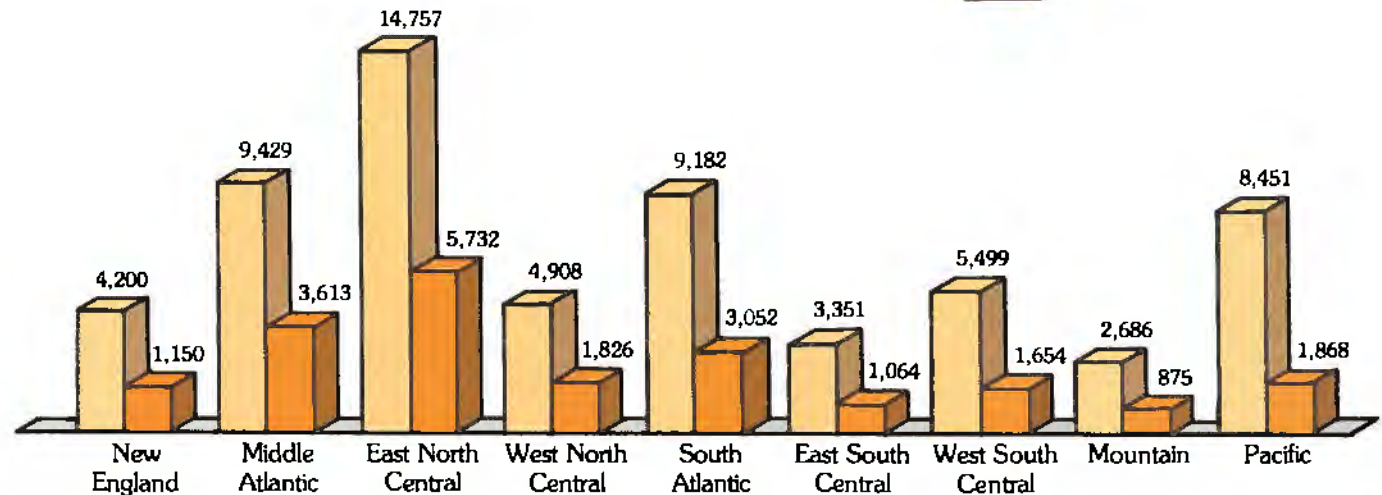


Feeding

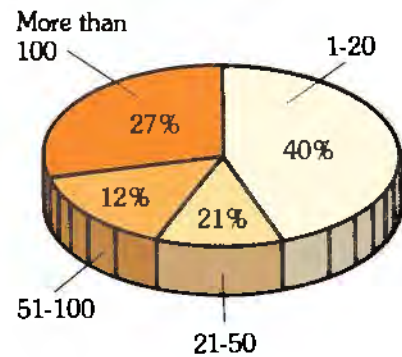
Percent feeding wild birds



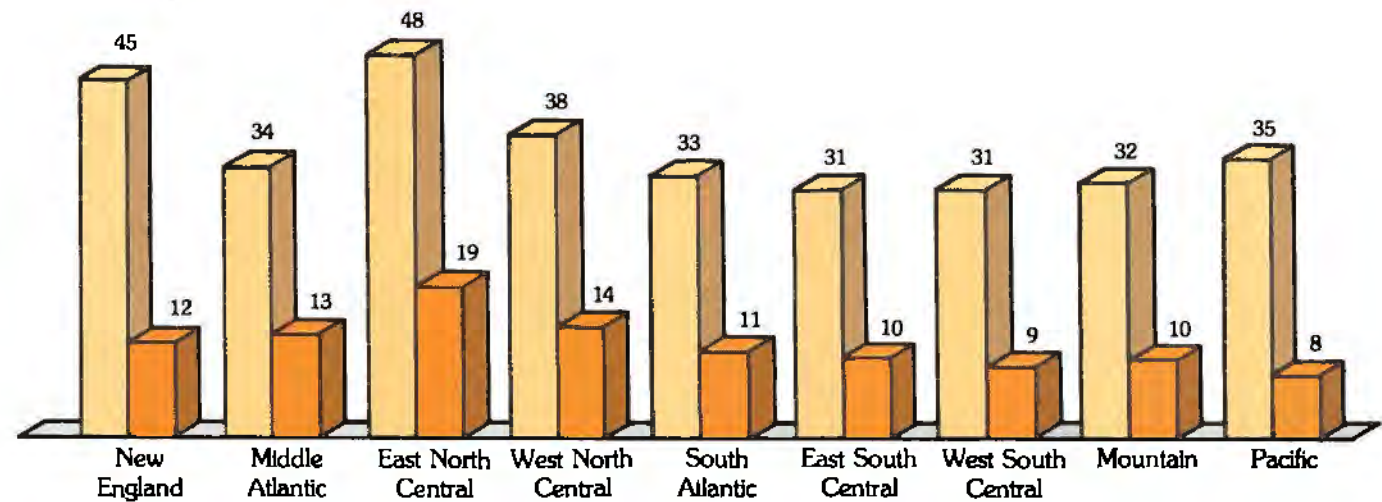
Participants (thousands)



Days Feeding Other Wildlife



Percent of regional population

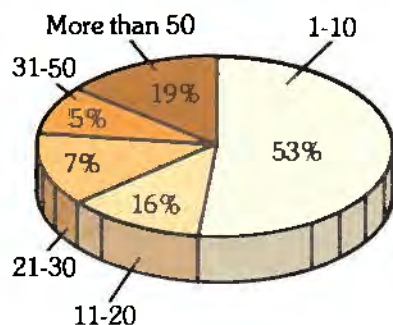


Secondary Opportunities to Enjoy Wildlife

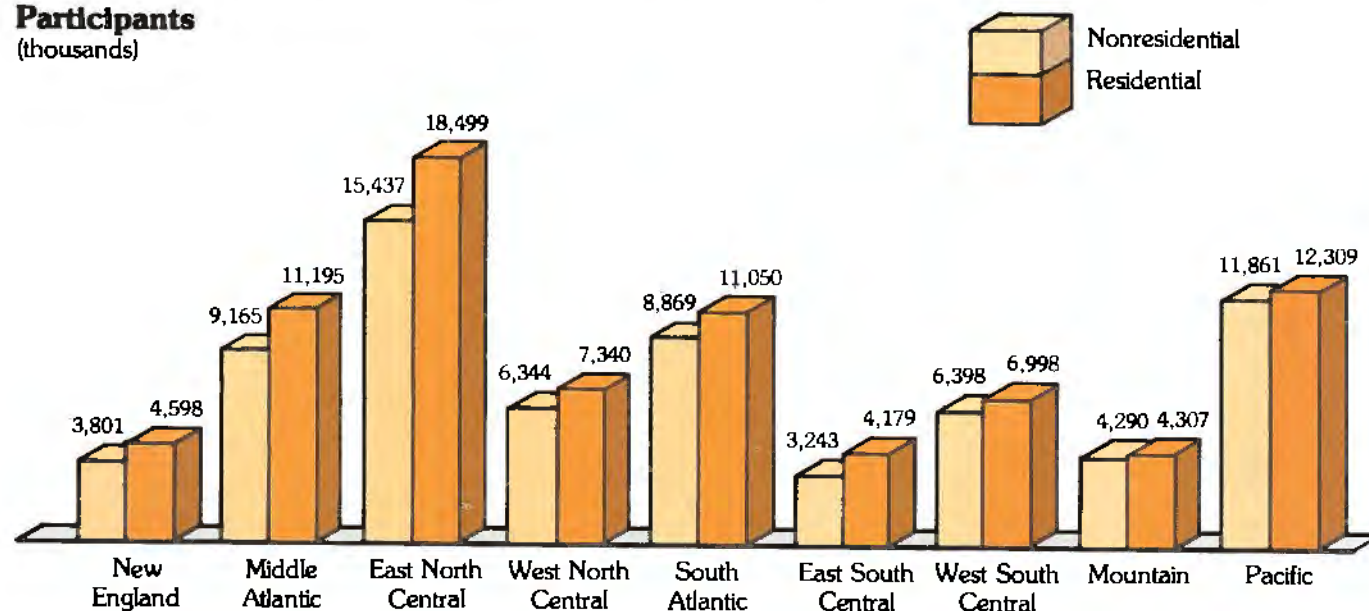
About 69.4 million Americans reported enjoying wildlife while on trips taken for some other purpose. Of these individuals, 53 percent reported 1-10 such trips during the year. An estimated 19 percent indicated that they had enjoyed wildlife on more than 50 such occasions. Driving for pleasure (68 percent), walking or hiking, (42 percent), and picnicking (39 percent) were frequently cited activities during which the opportunity to see or hear wildlife added to the enjoyment of the experience. Roughly 60 percent of those who reported participation in secondary nonresidential activities said that the presence of wildlife was important to the enjoyment of their recreational activities.

About 80 million people enjoyed unplanned opportunities (secondary residential) to see or hear wildlife around their homes, 47 percent of the population.

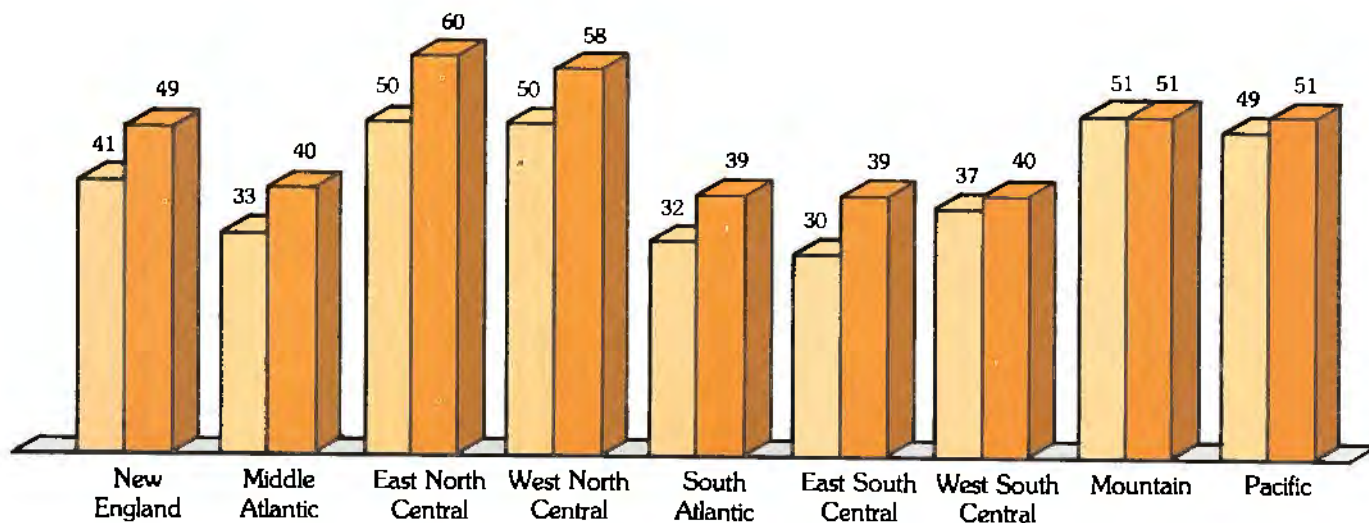
Nonresidential Occasions



Participants
(thousands)



Percent of regional population



Equipment Expenditures

Equipment and related expenditures for nonconsumptive activities were sorted into three categories. These were direct-use items, binoculars and photographic equipment, and auxiliary equipment.

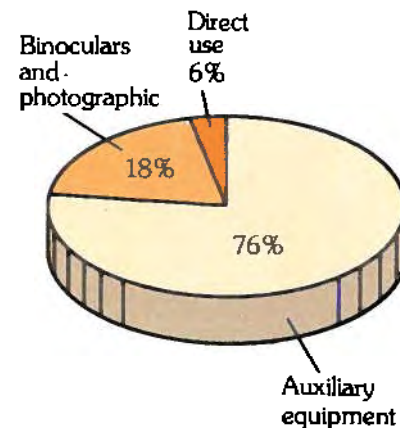
Direct-use items included equipment for which use was restricted to nonconsumptive wildlife recreation because of their nature (field guides, birdseed, birdfeeders, etc.). Spending for direct-use items totaled \$636 million.

Because many of the other items covered by the survey could also be used for purposes other than nonconsumptive activities, those who had purchased these items were asked whether their use was primarily for nonconsumptive activities. Two sets of estimates are shown here. The "all equipment" category shows total

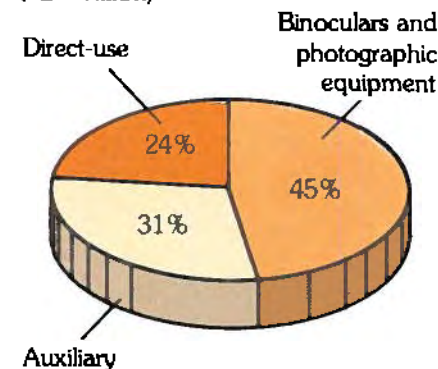
equipment expenditures, whereas the "primary-use" estimates include only expenditures made primarily for the purpose of nonconsumptive activities. The primary-use estimates, the smaller of the two in all cases, are comparable to equipment expenditures for fishing and hunting for which responses were limited to purchases used primarily for fishing and hunting.

Spending for binoculars and photographic equipment was \$2.0 billion in the all expenditures tabulation and \$1.2 billion when restricted to primary use. Related or auxiliary equipment spending was \$8.1 billion for all expenditures and \$805 million for primary uses. Total equipment expenditures amounted to \$10.7 billion when everything is included and \$2.6 billion when limited to spending primarily for nonconsumptive activities.

All equipment
(\$10.7 billion)



Primarily for nonconsumptive use
(\$2.6 billion)



Socioeconomic Profiles

Participants in nonconsumptive wildlife-associated recreation came from a wide range of socioeconomic groups. Those who participated in primary nonresidential activities warrant special attention.

Men comprised 52 percent of those who took trips to observe wildlife in 1980. About 58 percent of those who engaged in this activity were between the ages of 16 and 34. One-fourth of the U.S. population aged 25-34 took trips primarily to observe, photograph, or feed wildlife. Participation rates among older age groups were 18 percent of those aged 35-44, 15 percent of those 45-54, and 9 percent of the population older than 55 years of age.

An estimated 24 percent of the U.S. population with an annual income of \$30,000-\$39,999 participated in wildlife-oriented trips and represented 11 percent of those who participated in the activity. About 55 percent of this activity group consisted of individuals with household incomes of between \$10,000 and \$30,000. About 38 percent of those who participated in trips primarily to observe, photograph, or feed wildlife had a total annual household income of less than \$20,000.



Statistical Tables

Fishing and Hunting

Table 1. Participants in Fishing and Hunting, by Age: 1980

(Numbers in thousands)

| Activity | 16 years old and older | | | 12 years old and older | | | 9 years old and older | | | 6 years old and older | | |
|-------------------------|------------------------|----------------------|-----------------------|------------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|
| | Total | Percent of sportsmen | Percent of population | Total | Percent of sportsmen | Percent of population | Total | Percent of sportsmen | Percent of population | Total | Percent of sportsmen | Percent of population |
| Either fished or hunted | 46,713 | 100 | 27 | 52,660 | 100 | 29 | 56,669 | 100 | 29 | 59,355 | 100 | 29 |
| Fished only | 29,268 | 63 | 17 | 34,482 | 65 | 19 | 38,046 | 67 | 19 | 40,593 | 68 | 20 |
| Hunted only | 4,654 | 10 | 3 | 5,034 | 10 | 3 | 5,097 | 9 | 3 | 5,120 | 9 | 2 |
| Fished and hunted | 12,791 | 27 | 8 | 13,144 | 25 | 7 | 13,525 | 24 | 7 | 13,642 | 23 | 7 |

Table 2. Fishermen, Trips, and Days and Hours of Participation, by Type of Fishing: 1980

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

| Type of fishing | Participants | | | | | | | | | |
|-----------------|-----------------------|---------|-----------------------|---------|-----------------|---------|------------------------------|---------|-----------------------|-----------------------|
| | Total | | In State of residence | | In other States | | In other countries | | | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | | |
| All fishing | 42,059 | 100 | 38,234 | 100 | 10,066 | 100 | 1,437 | 100 | | |
| Freshwater | 36,378 | 86 | 33,201 | 87 | 7,396 | 73 | 967 | 67 | | |
| Great Lakes | 3,016 | 7 | 2,598 | 7 | 505 | 5 | (X) | (X) | | |
| Other | 35,308 | 84 | 32,095 | 84 | 7,105 | 71 | 967 | 67 | | |
| Saltwater | 12,344 | 29 | 9,256 | 24 | 3,577 | 36 | 506 | 35 | | |
| | Trips | | | | | | | | | |
| | Total | | 1 day | | 2 or more days | | Primary purpose ² | | | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | | |
| All fishing | 751,197 | 100 | 639,462 | 85 | 111,736 | 15 | 645,642 | 86 | | |
| Freshwater | 620,531 | 100 | 532,359 | 86 | 88,172 | 14 | 543,772 | 88 | | |
| Great Lakes | 35,720 | 100 | 29,918 | 84 | 5,802 | 16 | 30,990 | 87 | | |
| Other | 584,811 | 100 | 502,441 | 86 | 82,370 | 14 | 512,782 | 88 | | |
| Saltwater | 130,667 | 100 | 107,103 | 82 | 23,564 | 18 | 101,870 | 78 | | |
| | Days of participation | | | | | | | | | |
| | Total | | In State of residence | | In other States | | In other countries | | Average per fisherman | Average hours per day |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | | |
| All fishing | 857,566 | 100 | 761,378 | 89 | 87,561 | 10 | 8,627 | 1 | 20 | 5 |
| Freshwater | 710,572 | 100 | 638,343 | 90 | 66,276 | 9 | 5,948 | 1 | 20 | 5 |
| Great Lakes | 40,533 | 100 | 37,272 | 92 | 3,261 | 8 | (X) | (X) | 13 | 5 |
| Other | 674,376 | 100 | 604,242 | 90 | 64,187 | 10 | 5,947 | 1 | 19 | 5 |
| Saltwater | 147,007 | 100 | 123,064 | 84 | 21,271 | 14 | 2,673 | 2 | 12 | 6 |

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

X Not applicable.

¹ Includes Great Lakes fishing.² Trips taken for the primary purpose of fishing.

Table 3. Freshwater Fishermen and Days of Participation, by Type of Fish Sought: 1980

(U.S. population 16 years old and older. Numbers in thousands. Excludes Great Lakes fishing.)

| Type of fishing | Total | | In State of residence | | In other States | | In other countries | | Average per fisherman |
|--|---------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | | | |
| Total | 35,308 | 100 | 32,095 | 91 | 7,105 | 20 | 967 | 3 | (X) |
| Bass | 18,259 | 100 | 16,409 | 90 | 3,180 | 17 | 292 | 2 | (X) |
| Panfish | 18,877 | 100 | 17,070 | 90 | 3,015 | 16 | 189 | 1 | (X) |
| Catfish | 13,339 | 100 | 12,322 | 92 | 1,811 | 14 | 41 | (Z) | (X) |
| Walleye and sauger | 4,418 | 100 | 3,309 | 75 | 1,007 | 23 | 509 | 12 | |
| Northern pike, pickerel, and muskie | 4,458 | 100 | 3,297 | 74 | 944 | 21 | 522 | 12 | (X) |
| Trout | 10,745 | 100 | 9,114 | 85 | 2,137 | 20 | 223 | 2 | (X) |
| Salmon and steelhead | 1,323 | 100 | 1,099 | 83 | 214 | 16 | 43 | 3 | (X) |
| Striped bass | 1,846 | 100 | 1,604 | 87 | 308 | 17 | ... | ... | (X) |
| All other freshwater fish | 3,294 | 100 | 2,829 | 86 | 511 | 16 | 68 | 2 | (X) |
| Anything | 5,647 | 100 | 4,955 | 88 | 944 | 17 | 62 | 1 | (X) |
| DAYS OF PARTICIPATION | | | | | | | | | |
| Total | 674,376 | 100 | 604,242 | 90 | 64,187 | 10 | 5,947 | 1 | 19 |
| Bass | 333,204 | 100 | 301,224 | 90 | 30,002 | 9 | 1,978 | 1 | 18 |
| Panfish | 333,266 | 100 | 303,126 | 91 | 28,966 | 9 | 1,174 | (Z) | 18 |
| Catfish | 236,737 | 100 | 217,729 | 92 | 18,670 | 8 | 338 | (Z) | 18 |
| Walleye and sauger | 67,918 | 100 | 54,567 | 80 | 10,115 | 15 | 3,236 | 5 | 15 |
| Northern pike, pickerel, and muskie | 67,071 | 100 | 55,263 | 82 | 8,718 | 13 | 3,090 | 5 | 15 |
| Trout | 144,157 | 100 | 126,498 | 88 | 16,526 | 11 | 1,134 | 1 | 13 |
| Salmon and steelhead | 17,978 | 100 | 16,075 | 89 | 1,686 | 9 | 217 | 1 | 14 |
| Striped bass | 36,999 | 100 | 33,592 | 91 | 3,281 | 9 | 107 | (Z) | 20 |
| All other freshwater fish | 61,992 | 100 | 56,975 | 92 | 4,667 | 8 | 350 | 1 | 19 |
| Anything | 78,405 | 100 | 72,379 | 92 | 5,696 | 7 | 331 | (Z) | 14 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

X Not applicable.

Z Less than .5 percent.

Table 4. Great Lakes Fishermen and Days of Participation, by Type of Fish Sought: 1980

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

| Type of fishing | Total | | In State of residence | | In other States | | Average per fisherman |
|-------------------------|--------|---------|-----------------------|---------|-----------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | |
| All Great Lakes fishing | 3,016 | 100 | 2,598 | 86 | 505 | 17 | (X) |
| Bass | 719 | 100 | 602 | 84 | 127 | 18 | (X) |
| Walleye and sauger | 792 | 100 | 725 | 92 | 69 | 9 | (X) |
| Northern pike | 393 | 100 | 282 | 72 | 115 | 29 | (X) |
| Pickarel, and muskie | 172 | 100 | 141 | 82 | 31 | 18 | (X) |
| Panfish | 507 | 100 | 438 | 87 | 80 | 16 | (X) |
| Perch | 1,420 | 100 | 1,303 | 92 | 131 | 9 | (X) |
| Catfish | 471 | 100 | 400 | 85 | 76 | 16 | (X) |
| Salmon and steelhead | 964 | 100 | 787 | 82 | 193 | 20 | (X) |
| Lake trout | 715 | 100 | 585 | 82 | 144 | 20 | (X) |
| Other trout | 448 | 100 | 376 | 84 | 81 | 18 | (X) |
| White bass | 202 | 100 | 178 | 88 | 25 | 12 | (X) |
| Sheepshead | 215 | 100 | 179 | 83 | 38 | 18 | (X) |
| Smelt | 337 | 100 | 315 | 93 | 23 | 7 | (X) |
| Anything | 379 | 100 | 320 | 84 | 69 | 18 | (X) |
| Other | 130 | 100 | 90 | 69 | 40 | 31 | (X) |
| DAYS OF PARTICIPATION | | | | | | | |
| All Great Lakes fishing | 40,533 | 100 | 37,272 | 92 | 3,261 | 8 | 13 |
| Bass | 9,957 | 100 | 9,262 | 93 | 695 | 7 | 14 |
| Walleye and sauger | 11,038 | 100 | 10,628 | 96 | 410 | 4 | 14 |
| Northern pike | 4,315 | 100 | 3,555 | 82 | 760 | 18 | 11 |
| Pickarel and muskie | 2,058 | 100 | 1,847 | 90 | 211 | 10 | 12 |
| Panfish | 8,512 | 100 | 7,506 | 88 | 1,005 | 12 | 17 |
| Perch | 18,634 | 100 | 17,394 | 93 | 1,240 | 7 | 13 |
| Catfish | 7,039 | 100 | 6,602 | 94 | 436 | 6 | 15 |
| Salmon and steelhead | 9,841 | 100 | 8,988 | 91 | 853 | 9 | 10 |
| Lake trout | 6,638 | 100 | 5,910 | 89 | 728 | 11 | 9 |
| Other trout | 4,533 | 100 | 4,172 | 92 | 362 | 8 | 10 |
| White bass | 3,873 | 100 | 3,740 | 97 | 133 | 3 | 19 |
| Sheepshead | 4,126 | 100 | 3,962 | 96 | 164 | 4 | 19 |
| Smelt | 1,804 | 100 | 1,735 | 96 | 69 | 4 | 5 |
| Anything | 4,231 | 100 | 3,897 | 92 | 334 | 8 | 11 |
| Other | 1,232 | 100 | 1,105 | 90 | 128 | 10 | 9 |

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

* Estimate based on a small sample size.

X Not applicable.

Table 5. Fishing for Selected Anadromous Species and Days of Participation: 1980

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

| Type of fish | Total | | In State of residence | | In other States | | In other countries | | Average per fisherman |
|-----------------------|---------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | | | |
| All saltwater fishing | 12,344 | 100 | 9,256 | 75 | 3,577 | 29 | 506 | 4 | (X) |
| Salmon | 1,095 | 100 | 848 | 77 | 264 | 24 | *36 | 3 | (X) |
| Striped bass | 2,510 | 100 | 1,997 | 80 | 645 | 26 | 100 | 4 | (X) |
| DAYS OF PARTICIPATION | | | | | | | | | |
| All saltwater fishing | 147,007 | 100 | 123,063 | 84 | 21,270 | 14 | 2,673 | 2 | 12 |
| Salmon | 7,578 | 100 | 6,439 | 85 | 994 | 13 | *145 | 2 | 7 |
| Striped bass | 24,836 | 100 | 20,575 | 83 | 3,806 | 15 | 455 | 2 | 10 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 6. Saltwater Fishermen: 1980

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

| Type of saltwater fishing | Total | | In State of residence | | In other States | | In other countries | |
|--|--------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 12,344 | 100 | 9,256 | 75 | 3,577 | 29 | 506 | 4 |
| Deep sea | 4,608 | 100 | 3,157 | 69 | 1,509 | 33 | 260 | 6 |
| Surf and shore | 6,737 | 100 | 5,116 | 76 | 1,822 | 27 | 224 | 3 |
| Sounds, bays, tidal inlets and streams | 5,325 | 100 | 4,152 | 78 | 1,349 | 25 | 77 | 1 |

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

Table 8. Big Game Hunters and Days of Participation, by Type of Game: 1980

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

| Type of game | Total | | In State of residence | | In other States | | In other countries | | Average per hunter |
|-----------------------|---------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | | | |
| All big game | 11,806 | 100 | 11,128 | 94 | 1,227 | 10 | 45 | (Z) | (X) |
| Deer | 11,400 | 100 | 10,805 | 95 | 1,060 | 9 | *17 | (Z) | (X) |
| Elk | 760 | 100 | 608 | 80 | 156 | 21 | ... | ... | (X) |
| Antelope | 120 | 100 | 104 | 87 | *16 | 13 | ... | ... | (X) |
| Moose | 50 | 100 | 42 | 84 | ... | ... | ... | ... | (X) |
| Bear | 561 | 100 | 461 | 82 | 96 | 17 | ... | ... | (X) |
| Wild turkey | 1,471 | 100 | 1,348 | 92 | 160 | 11 | ... | ... | (X) |
| Other | 287 | 100 | 255 | 89 | 31 | 11 | ... | ... | (X) |
| DAYS OF PARTICIPATION | | | | | | | | | |
| All big game | 112,788 | 100 | 103,678 | 92 | 8,929 | 8 | 181 | (Z) | 10 |
| Deer | 102,496 | 100 | 94,885 | 93 | 7,550 | 7 | *61 | (Z) | 9 |
| Elk | 4,984 | 100 | 3,880 | 78 | 1,103 | 22 | ... | ... | 7 |
| Antelope | 486 | 100 | 360 | 74 | 127 | 26 | ... | ... | 4 |
| Moose | 351 | 100 | 270 | 77 | ... | ... | ... | ... | 7 |
| Bear | 3,932 | 100 | 3,166 | 81 | 715 | 18 | ... | ... | 7 |
| Wild turkey | 9,875 | 100 | 8,927 | 90 | 919 | 9 | ... | ... | 7 |
| Other | 2,456 | 100 | 2,276 | 93 | 152 | 6 | ... | ... | 9 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

X Not applicable.

Table 9. Small Game Hunters and Days of Participation, by Type of Game: 1980

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

| Type of game | Total | | In State of residence | | In other States | | In other countries | | Average per hunter |
|--------------------------------|---------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | | | |
| All small game | 12.362 | 100 | 11.739 | 95 | 1.156 | 9 | 50 | (Z) | (X) |
| Rabbits and hares | 7.581 | 100 | 7.248 | 96 | 510 | 7 | *12 | (Z) | (X) |
| Quail | 3.671 | 100 | 3.422 | 93 | 367 | 10 | *21 | 1 | (X) |
| Grouse | 2.309 | 100 | 2.210 | 96 | 163 | 7 | .. | ... | (X) |
| Hungarian and chukar partridge | 659 | 100 | 614 | 93 | 47 | 7 | ... | ... | (X) |
| Squirrel | 6.329 | 100 | 6.064 | 96 | 393 | 6 | ... | ... | (X) |
| Pheasant | 4.214 | 100 | 3.903 | 93 | 406 | 10 | *17 | (Z) | (X) |
| Other | 211 | 100 | 194 | 92 | *18 | 9 | ... | ... | (X) |
| DAYS OF PARTICIPATION | | | | | | | | | |
| All small game | 151.246 | 100 | 142.176 | 94 | 8.758 | 6 | 312 | (Z) | 12 |
| Rabbits and hares | 78.794 | 100 | 74.445 | 94 | 4.279 | 5 | *70 | (Z) | 10 |
| Quail | 36.989 | 100 | 34.199 | 92 | 2.579 | 7 | *212 | 1 | 10 |
| Grouse | 21.440 | 100 | 20.201 | 94 | 1.176 | 5 | ... | ... | 9 |
| Hungarian and chukar partridge | 6.209 | 100 | 5.762 | 93 | 433 | 7 | ... | ... | 9 |
| Squirrel | 65.962 | 100 | 62.728 | 95 | 3.234 | 5 | ... | ... | 10 |
| Pheasant | 34.655 | 100 | 32.030 | 92 | 2.530 | 7 | *95 | (Z) | 8 |
| Other | 2.686 | 100 | 2.627 | 98 | *59 | 2 | ... | ... | 13 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

X Not applicable.

Table 10. Migratory Bird Hunters and Days of Participation, by Type of Game: 1980

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

| Type of game | Total | | In State of residence | | In other States | | In other countries | | Average per hunter |
|-----------------------------|--------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | | | |
| All migratory bird hunting | 5,311 | 100 | 5,006 | 94 | 470 | 9 | 40 | 1 | (X) |
| Geese | 1,397 | 100 | 1,296 | 93 | 134 | 10 | ... | ... | (X) |
| Ducks | 2,736 | 100 | 2,526 | 92 | 277 | 10 | *27 | 1 | (X) |
| Coots, rails and gallinules | 134 | 100 | 128 | 96 | ... | ... | ... | ... | (X) |
| Woodcock | 491 | 100 | 469 | 95 | *22 | 5 | ... | ... | (X) |
| Doves | 3,026 | 100 | 2,890 | 96 | 199 | 7 | ... | ... | (X) |
| Band-tailed pigeon | 86 | 100 | 85 | 100 | ... | ... | ... | ... | (X) |
| Other | 71 | 100 | 63 | 89 | ... | ... | ... | ... | (X) |
| DAYS OF PARTICIPATION | | | | | | | | | |
| All migratory bird hunting | 42,910 | 100 | 39,763 | 93 | 2,938 | 7 | 209 | (Z) | 8 |
| Geese | 11,572 | 100 | 10,815 | 93 | 705 | 6 | ... | ... | 8 |
| Ducks | 22,202 | 100 | 20,366 | 92 | 1,685 | 8 | 150 | 1 | 8 |
| Coots, rails and gallinules | 1,198 | 100 | 1,120 | 93 | ... | ... | ... | ... | 9 |
| Woodcock | 3,754 | 100 | 3,641 | 97 | *90 | 2 | ... | ... | 8 |
| Doves | 18,775 | 100 | 17,683 | 94 | 1,022 | 5 | ... | ... | 6 |
| Band-tailed pigeon | 784 | 100 | 655 | 83 | ... | ... | ... | ... | 9 |
| Other | 542 | 100 | 464 | 86 | ... | ... | ... | ... | 8 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

X Not applicable.

Table 11. Hunters of Other Animals and Days of Participation, by Type of Game: 1980

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

| Type of game | Total | | In State of residence | | In other States | | In other countries | | Average per hunter |
|-----------------------|--------|---------|-----------------------|---------|-----------------|---------|--------------------|---------|-----------------------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | |
| PARTICIPANTS | | | | | | | | | |
| All other hunting | 2,642 | 100 | 2,506 | 95 | 211 | 8 | ... | ... | (X) |
| Crows | 481 | 100 | 471 | 98 | 15 | 3 | ... | ... | (X) |
| Woodchuck | 702 | 100 | 669 | 95 | 49 | 7 | ... | ... | (X) |
| Raccoon | 1,103 | 100 | 1,069 | 97 | 78 | 7 | ... | ... | (X) |
| Fox | 536 | 100 | 519 | 97 | 28 | 5 | ... | ... | (X) |
| Coyote | 655 | 100 | 598 | 91 | 70 | 11 | ... | ... | (X) |
| Other | 311 | 100 | 291 | 93 | *25 | 8 | ... | ... | (X) |
| DAYS OF PARTICIPATION | | | | | | | | | |
| All other hunting | 38,431 | 100 | 36,331 | 95 | 2,100 | 5 | ... | ... | 15 |
| Crows | 4,530 | 100 | 4,430 | 98 | *100 | 2 | ... | ... | 9 |
| Woodchuck | 10,443 | 100 | 9,977 | 96 | 466 | 4 | ... | ... | 15 |
| Raccoon | 18,398 | 100 | 17,452 | 95 | 947 | 5 | ... | ... | 17 |
| Fox | 6,032 | 100 | 5,746 | 95 | 286 | 5 | ... | ... | 11 |
| Coyote | 7,610 | 100 | 7,028 | 92 | 581 | 8 | ... | ... | 12 |
| Other | 4,703 | 100 | 4,415 | 94 | 289 | 6 | ... | ... | 15 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

X Not applicable.

Table 12. Selected Characteristics of Fishermen and Hunters: 1980

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

| Characteristic | U.S. population | | Fished or hunted | | | Fished only | | |
|----------------------------------|-----------------|---------|------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|
| | Number | Percent | Number | Percent of population | Percent of sportsmen | Number | Percent of population | Percent of fishermen |
| Total persons | 169,942 | 100 | 46,713 | 27 | 100 | 29,268 | 17 | 100 |
| Population density of residence: | | | | | | | | |
| Big cities | 22,968 | 14 | 3,551 | 15 | 8 | 2,668 | 12 | 9 |
| Small cities | 71,041 | 42 | 17,028 | 24 | 36 | 12,454 | 18 | 43 |
| Towns and rural areas | 75,934 | 45 | 26,133 | 34 | 56 | 14,146 | 19 | 48 |
| Census geographic division: | | | | | | | | |
| New England | 9,362 | 6 | 1,900 | 20 | 4 | 1,318 | 14 | 5 |
| Middle Atlantic | 27,867 | 16 | 5,044 | 18 | 11 | 2,946 | 11 | 10 |
| East North Central | 30,791 | 18 | 8,713 | 28 | 19 | 5,580 | 18 | 19 |
| West North Central | 12,774 | 8 | 4,718 | 37 | 10 | 2,704 | 21 | 9 |
| South Atlantic | 28,066 | 17 | 7,902 | 28 | 17 | 5,359 | 19 | 18 |
| East South Central | 10,792 | 6 | 3,651 | 34 | 8 | 1,992 | 18 | 7 |
| West South Central | 17,550 | 10 | 5,800 | 33 | 12 | 3,251 | 19 | 11 |
| Mountain | 8,415 | 5 | 2,808 | 33 | 6 | 1,515 | 18 | 5 |
| Pacific | 24,326 | 14 | 6,177 | 25 | 13 | 4,603 | 19 | 16 |
| Sex and age group: | | | | | | | | |
| Both sexes, total | 169,942 | 100 | 46,713 | 27 | 100 | 29,268 | 17 | 100 |
| 16-17 years | 8,612 | 5 | 2,761 | 32 | 6 | 1,473 | 17 | 5 |
| 18-24 years | 28,546 | 17 | 8,627 | 30 | 18 | 4,758 | 17 | 16 |
| 25-34 years | 37,742 | 22 | 13,022 | 35 | 28 | 8,105 | 21 | 28 |
| 35-44 years | 26,117 | 15 | 8,413 | 32 | 18 | 5,285 | 20 | 18 |
| 45-54 years | 22,555 | 13 | 5,981 | 27 | 13 | 4,036 | 18 | 14 |
| 55-64 years | 21,723 | 13 | 4,683 | 22 | 10 | 3,243 | 15 | 11 |
| 65 years and older | 24,648 | 15 | 3,226 | 13 | 7 | 2,369 | 10 | 8 |
| Male, total | 80,753 | 48 | 33,243 | 41 | 71 | 17,243 | 21 | 59 |
| 16-17 years | 4,442 | 3 | 2,209 | 50 | 5 | 989 | 22 | 3 |
| 18-24 years | 13,916 | 8 | 5,939 | 43 | 13 | 2,490 | 18 | 9 |
| 25-34 years | 18,527 | 11 | 8,986 | 49 | 19 | 4,504 | 24 | 15 |
| 35-44 years | 12,750 | 8 | 6,051 | 47 | 13 | 3,188 | 25 | 11 |
| 45-54 years | 10,877 | 6 | 4,249 | 39 | 9 | 2,454 | 23 | 8 |
| 55-64 years | 10,145 | 6 | 3,419 | 34 | 7 | 2,050 | 20 | 7 |
| 65 years and older | 10,095 | 6 | 2,389 | 24 | 5 | 1,568 | 16 | 5 |
| Female, total | 89,190 | 52 | 13,469 | 15 | 29 | 12,025 | 13 | 41 |
| 16-17 years | 4,169 | 2 | 552 | 13 | 1 | 484 | 12 | 2 |
| 18-24 years | 14,630 | 9 | 2,689 | 18 | 6 | 2,267 | 15 | 8 |
| 25-34 years | 19,215 | 11 | 4,036 | 21 | 9 | 3,600 | 19 | 12 |
| 35-44 years | 13,367 | 8 | 2,362 | 18 | 5 | 2,097 | 16 | 7 |
| 45-54 years | 11,678 | 7 | 1,731 | 15 | 4 | 1,583 | 14 | 5 |
| 55-64 years | 11,577 | 7 | 1,264 | 11 | 3 | 1,193 | 10 | 4 |
| 65 years and older | 14,553 | 9 | 836 | 6 | 2 | 801 | 6 | 3 |
| Race: | | | | | | | | |
| White | 146,999 | 86 | 43,161 | 29 | 92 | 26,520 | 18 | 91 |
| Black | 18,175 | 11 | 2,709 | 15 | 6 | 2,098 | 12 | 7 |
| All others | 4,768 | 3 | 843 | 18 | 2 | 651 | 14 | 2 |

(See footnotes at end of table.)

Table 12. Selected Characteristics of Fishermen and Hunters: 1980 (Continued)

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

| Characteristic | Hunted only | | | Fished and hunted | | |
|--------------------------|-------------|-----------------------|--------------------|-------------------|-----------------------|----------------------|
| | Number | Percent of population | Percent of hunters | Number | Percent of population | Percent of sportsmen |
| Sex and age group: | | | | | | |
| Both sexes, total | 4,654 | 3 | 100 | 12,791 | 8 | 100 |
| 16-17 years | 289 | 3 | 6 | 999 | 12 | 8 |
| 18-24 years | 1,109 | 4 | 24 | 2,761 | 10 | 22 |
| 25-34 years | 1,221 | 3 | 26 | 3,696 | 10 | 29 |
| 35-44 years | 777 | 3 | 17 | 2,351 | 9 | 18 |
| 45-54 years | 584 | 3 | 13 | 1,361 | 6 | 11 |
| 55-64 years | 442 | 2 | 10 | 998 | 5 | 8 |
| 65 years and older | 232 | 1 | 5 | 625 | 3 | 5 |
| Male, total | 4,234 | 5 | 91 | 11,766 | 15 | 92 |
| 16-17 years | 274 | 6 | 6 | 947 | 21 | 7 |
| 18-24 years | 1,004 | 7 | 22 | 2,445 | 18 | 19 |
| 25-34 years | 1,078 | 6 | 23 | 3,404 | 18 | 27 |
| 35-44 years | 700 | 5 | 15 | 2,163 | 17 | 17 |
| 45-54 years | 546 | 5 | 12 | 1,249 | 11 | 10 |
| 55-64 years | 414 | 4 | 9 | 956 | 9 | 7 |
| 65 years and older | 219 | 2 | 5 | 602 | 6 | 5 |
| Female, total | 419 | (Z) | 9 | 1,025 | 1 | 8 |
| 16-17 years | *15 | (Z) | (Z) | 52 | 1 | (Z) |
| 18-24 years | 105 | 1 | 2 | 316 | 2 | 2 |
| 25-34 years | 144 | 1 | 3 | 292 | 2 | 2 |
| 35-44 years | 77 | 1 | 2 | 188 | 1 | 1 |
| 45-54 years | 37 | (Z) | 1 | 111 | 1 | 1 |
| 55-64 years | 29 | (Z) | 1 | 42 | (Z) | (Z) |
| 65 years and older | *13 | (Z) | (Z) | *3 | (Z) | (Z) |
| Race: | | | | | | |
| White | 4,466 | 3 | 96 | 12,175 | 8 | 95 |
| Black | 159 | 1 | 3 | 452 | 2 | 4 |
| All others | 29 | 1 | 1 | 164 | 3 | 1 |
| Annual household income: | | | | | | |
| Under \$5,000 | 199 | 2 | 4 | 498 | 4 | 4 |
| \$5,000-\$9,999 | 430 | 2 | 9 | 1,291 | 6 | 10 |
| \$10,000-\$14,999 | 604 | 3 | 13 | 1,731 | 8 | 14 |
| \$15,000-\$19,999 | 677 | 4 | 15 | 1,834 | 9 | 14 |
| \$20,000-\$24,999 | 740 | 3 | 16 | 2,212 | 10 | 17 |
| \$25,000-\$29,999 | 498 | 3 | 11 | 1,697 | 10 | 13 |
| \$30,000-\$39,999 | 434 | 3 | 9 | 1,216 | 9 | 10 |
| \$40,000-\$49,999 | 215 | 4 | 5 | 443 | 8 | 3 |
| \$50,000 or more | 177 | 3 | 4 | 471 | 8 | 4 |
| Not reported | 680 | 2 | 15 | 1,398 | 5 | 11 |

(See footnotes at end of table.)

Table 12. Selected Characteristics of Fishermen and Hunters: 1980 (Continued)

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

| Characteristic | Hunted only | | | Fished and hunted | | |
|-------------------------|-------------|-----------------------|--------------------|-------------------|-----------------------|----------------------|
| | Number | Percent of population | Percent of hunters | Number | Percent of population | Percent of sportsmen |
| Education: | | | | | | |
| None | *21 | 1 | (Z) | 29 | 2 | (Z) |
| 1-7 years | 247 | 2 | 5 | 574 | 5 | 4 |
| 8 years | 268 | 2 | 6 | 659 | 6 | 5 |
| 9-11 years | 881 | 3 | 19 | 2,614 | 9 | 20 |
| 12 years | 1,909 | 3 | 41 | 5,223 | 8 | 41 |
| 1-3 years college | 753 | 3 | 16 | 2,058 | 8 | 16 |
| 4 years college | 287 | 2 | 6 | 857 | 6 | 7 |
| 5 or more years college | 290 | 2 | 6 | 778 | 6 | 6 |

* Estimate based on a small sample size.

Z Less than .5 percent.

Table 13. Selected Characteristics of Fishermen and Hunters 6-15 Years Old: 1980

(U.S. population 6-15 years old. Numbers in thousands)

| Characteristic | U.S. population | | Fished or hunted | | | Fished only | | |
|----------------------------------|-----------------|---------|------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|
| | Number | Percent | Number | Percent of population | Percent of sportsmen | Number | Percent of population | Percent of fishermen |
| Total persons | 35,313 | 100 | 12,141 | 34 | 100 | 10,179 | 29 | 100 |
| Population density of residence: | | | | | | | | |
| Big cities | 4,379 | 12 | 771 | 18 | 6 | 693 | 16 | 7 |
| Small cities | 13,546 | 38 | 4,293 | 32 | 35 | 3,865 | 29 | 38 |
| Towns and rural areas | 17,388 | 49 | 7,078 | 41 | 58 | 5,621 | 32 | 55 |
| Census geographic division: | | | | | | | | |
| New England | 1,868 | 5 | 627 | 34 | 5 | 575 | 31 | 6 |
| Middle Atlantic | 5,495 | 16 | 1,519 | 28 | 13 | 1,340 | 24 | 13 |
| East North Central | 6,648 | 19 | 2,446 | 37 | 20 | 2,176 | 33 | 21 |
| West North Central | 2,610 | 7 | 1,273 | 49 | 10 | 1,012 | 39 | 10 |
| South Atlantic | 5,729 | 16 | 1,827 | 32 | 15 | 1,509 | 26 | 15 |
| East South Central | 2,415 | 7 | 896 | 37 | 7 | 669 | 28 | 7 |
| West South Central | 3,945 | 11 | 1,342 | 34 | 11 | 989 | 25 | 10 |
| Mountain | 1,858 | 5 | 711 | 38 | 6 | 569 | 31 | 6 |
| Pacific | 4,746 | 13 | 1,500 | 32 | 12 | 1,341 | 28 | 13 |
| Sex and age group: | | | | | | | | |
| Both sexes, total | 35,313 | 100 | 12,141 | 34 | 100 | 10,179 | 29 | 100 |
| 6-8 years | 9,451 | 27 | 2,686 | 28 | 22 | 2,547 | 27 | 25 |
| 9-11 years | 11,114 | 31 | 4,009 | 36 | 33 | 3,564 | 32 | 35 |
| 12-15 years | 14,748 | 42 | 5,446 | 37 | 45 | 4,068 | 28 | 40 |
| Male, total | 17,995 | 51 | 8,186 | 45 | 67 | 6,370 | 35 | 63 |
| 6-8 years | 4,873 | 14 | 1,705 | 35 | 14 | 1,587 | 33 | 16 |
| 9-11 years | 5,639 | 16 | 2,598 | 46 | 21 | 2,192 | 39 | 22 |
| 12-15 years | 7,483 | 21 | 3,882 | 52 | 32 | 2,591 | 35 | 25 |
| Female, total | 17,319 | 49 | 3,955 | 23 | 33 | 3,809 | 22 | 37 |
| 6-8 years | 4,577 | 13 | 981 | 21 | 8 | 960 | 21 | 9 |
| 9-11 years | 5,476 | 16 | 1,410 | 26 | 12 | 1,372 | 25 | 13 |
| 12-15 years | 7,266 | 21 | 1,564 | 22 | 13 | 1,477 | 20 | 15 |
| Race: | | | | | | | | |
| White | 28,711 | 81 | 11,271 | 39 | 93 | 9,377 | 33 | 92 |
| Black | 5,224 | 15 | 595 | 11 | 5 | 554 | 11 | 5 |
| All others | 1,378 | 4 | 275 | 20 | 2 | 247 | 18 | 2 |
| Annual household income: | | | | | | | | |
| Under \$5,000 | 2,056 | 6 | 321 | 16 | 3 | 271 | 13 | 3 |
| \$5,000-9,999 | 4,275 | 12 | 1,045 | 24 | 9 | 918 | 21 | 9 |
| \$10,000-14,999 | 4,356 | 12 | 1,311 | 30 | 11 | 1,085 | 25 | 11 |
| \$15,000-19,999 | 4,404 | 12 | 1,576 | 36 | 13 | 1,304 | 30 | 13 |
| \$20,000-24,999 | 5,348 | 15 | 2,169 | 41 | 18 | 1,787 | 33 | 18 |
| \$25,000-29,999 | 4,141 | 12 | 1,807 | 44 | 15 | 1,537 | 37 | 15 |
| \$30,000-39,999 | 3,292 | 9 | 1,464 | 44 | 12 | 1,233 | 37 | 12 |
| \$40,000-49,999 | 1,159 | 3 | 506 | 44 | 4 | 423 | 37 | 4 |
| \$50,000 or more | 1,318 | 4 | 634 | 48 | 5 | 532 | 40 | 5 |
| Not reported | 4,963 | 14 | 1,309 | 26 | 11 | 1,088 | 22 | 11 |

(See footnotes at end of table.)

Table 13. Selected Characteristics of Fishermen and Hunters 6-15 Years Old: 1980
(Continued)

(U.S. population 6-15 years old. Numbers in thousands)

| Characteristic | Hunted only | | | Fished and hunted | | |
|----------------------------------|-------------|-----------------------|--------------------|-------------------|-----------------------|--------------------|
| | Number | Percent of population | Percent of hunters | Number | Percent of population | Percent of hunters |
| Total persons | 354 | 1 | 100 | 1,608 | 5 | 100 |
| Population density of residence: | | | | | | |
| Big cities | 17 | (Z) | 5 | 60 | 1 | 4 |
| Small cities | 69 | 1 | 20 | 359 | 3 | 22 |
| Towns and rural areas | 268 | 2 | 76 | 1,189 | 7 | 74 |
| Census geographic division: | | | | | | |
| New England | 10 | 1 | 3 | 42 | 2 | 3 |
| Middle Atlantic | 47 | 1 | 13 | 132 | 2 | 8 |
| East North Central | 47 | 1 | 13 | 223 | 3 | 14 |
| West North Central | 42 | 2 | 12 | 218 | 8 | 14 |
| South Atlantic | 46 | 1 | 13 | 272 | 5 | 17 |
| East South Central | 33 | 1 | 9 | 195 | 8 | 12 |
| West South Central | 58 | 1 | 16 | 295 | 7 | 18 |
| Mountain | 39 | 2 | 11 | 104 | 6 | 6 |
| Pacific | 32 | 1 | 9 | 126 | 3 | 8 |
| Sex and age group: | | | | | | |
| Both sexes, total | 354 | 1 | 100 | 1,608 | 5 | 100 |
| 6-8 years | 22 | (Z) | 6 | 116 | 1 | 7 |
| 9-11 years | 63 | 1 | 18 | 381 | 3 | 24 |
| 12-15 years | 268 | 2 | 76 | 1,110 | 8 | 69 |
| Male, total | 306 | 2 | 87 | 1,509 | 8 | 94 |
| 6-8 years | 15 | (Z) | 4 | 102 | 2 | 6 |
| 9-11 years | 53 | 1 | 15 | 353 | 6 | 22 |
| 12-15 years | 238 | 3 | 67 | 1,053 | 14 | 66 |
| Female, total | 48 | (Z) | 13 | 99 | 1 | 6 |
| 6-8 years | 7 | (Z) | 2 | 14 | (Z) | 1 |
| 9-11 years | 10 | (Z) | 3 | 28 | 1 | 2 |
| 12-15 years | 31 | (Z) | 9 | 57 | 1 | 4 |
| Race: | | | | | | |
| White | 336 | 1 | 95 | 1,557 | 5 | 97 |
| Black | 10 | (Z) | 3 | 31 | 1 | 2 |
| All others | 7 | 1 | 2 | 20 | 1 | 1 |
| Annual household income: | | | | | | |
| Under \$5,000 | 9 | (Z) | 3 | 40 | 2 | 3 |
| \$5,000-9,999 | 25 | 1 | 7 | 101 | 2 | 6 |
| \$10,000-14,999 | 32 | 1 | 9 | 194 | 4 | 12 |
| \$15,000-19,999 | 44 | 1 | 12 | 229 | 5 | 14 |
| \$20,000-24,999 | 74 | 1 | 21 | 308 | 6 | 19 |
| \$25,000-29,999 | 43 | 1 | 12 | 226 | 5 | 14 |
| \$30,000-39,999 | 33 | 1 | 9 | 198 | 6 | 12 |
| \$40,000-49,999 | 11 | 1 | 3 | 71 | 6 | 4 |
| \$50,000 or more | 20 | 2 | 6 | 82 | 6 | 5 |
| Not reported | 63 | 1 | 18 | 158 | 3 | 10 |

Z Less than .5 percent.

Table 14. Selected Characteristics of Fishermen, by Type of Fishing: 1980

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

| Characteristic | U.S. population | | All fishermen | | | Freshwater | | | | | | Saltwater | | |
|----------------------------------|-----------------|---------|---------------|-----------------------|---------|-------------|-----------------------|---------|--------|-----------------------|---------|-----------|----|-----|
| | | | | | | Great Lakes | | | Other | | | | | |
| | Number | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent | | | |
| Total persons | 169,942 | 100 | 42,059 | 25 | 100 | 3,016 | 2 | 100 | 35,308 | 21 | 100 | 12,344 | 7 | 100 |
| Population density of residence: | | | | | | | | | | | | | | |
| Big cities | 22,968 | 14 | 3,301 | 14 | 8 | 329 | 1 | 11 | 2,362 | 10 | 7 | 1,501 | 7 | 12 |
| Small cities | 71,041 | 42 | 15,794 | 22 | 38 | 1,452 | 2 | 48 | 12,229 | 17 | 35 | 5,843 | 8 | 47 |
| Towns and rural areas | 75,934 | 45 | 22,964 | 30 | 55 | 1,236 | 2 | 41 | 20,717 | 27 | 59 | 5,000 | 7 | 41 |
| Census geographic division: | | | | | | | | | | | | | | |
| New England | 9,362 | 6 | 1,759 | 19 | 4 | 17 | (Z) | 1 | 1,261 | 13 | 4 | 999 | 11 | 8 |
| Middle Atlantic | 27,867 | 16 | 4,235 | 15 | 10 | 499 | 2 | 17 | 2,793 | 10 | 8 | 2,047 | 7 | 17 |
| East North Central | 30,791 | 18 | 7,905 | 26 | 19 | 2,267 | 7 | 75 | 6,934 | 23 | 20 | 567 | 2 | 5 |
| West North Central | 12,774 | 8 | 4,201 | 33 | 10 | 90 | 1 | 3 | 4,188 | 33 | 12 | 92 | 1 | 1 |
| South Atlantic | 28,066 | 17 | 7,304 | 26 | 17 | 66 | (Z) | 2 | 5,447 | 19 | 15 | 3,775 | 13 | 31 |
| East South Central | 10,792 | 6 | 3,265 | 30 | 8 | ... | ... | ... | 3,185 | 30 | 9 | 409 | 4 | 3 |
| West South Central | 17,550 | 10 | 5,159 | 29 | 12 | 22 | (Z) | 1 | 4,548 | 26 | 13 | 1,299 | 7 | 11 |
| Mountain | 8,415 | 5 | 2,399 | 29 | 6 | 24 | (Z) | 1 | 2,368 | 28 | 7 | 187 | 2 | 2 |
| Pacific | 24,326 | 14 | 5,831 | 24 | 14 | ... | ... | ... | 4,584 | 19 | 13 | 2,970 | 12 | 24 |
| Sex and age group: | | | | | | | | | | | | | | |
| Both sexes, total | 169,942 | 100 | 42,059 | 25 | 100 | 3,016 | 2 | 100 | 35,308 | 21 | 100 | 12,344 | 7 | 100 |
| 16-17 years | 8,612 | 5 | 2,472 | 29 | 6 | 192 | 2 | 6 | 2,154 | 25 | 6 | 652 | 8 | 5 |
| 18-24 years | 28,546 | 17 | 7,519 | 26 | 18 | 531 | 2 | 18 | 6,456 | 23 | 18 | 1,987 | 7 | 16 |
| 25-34 years | 37,742 | 22 | 11,800 | 31 | 28 | 874 | 2 | 29 | 10,066 | 27 | 29 | 3,447 | 9 | 28 |
| 35-44 years | 26,117 | 15 | 7,636 | 29 | 18 | 484 | 2 | 16 | 6,291 | 24 | 18 | 2,527 | 10 | 20 |
| 45-54 years | 22,555 | 13 | 5,397 | 24 | 13 | 464 | 2 | 15 | 4,387 | 19 | 12 | 1,671 | 7 | 14 |
| 55-64 years | 21,723 | 13 | 4,241 | 20 | 10 | 328 | 2 | 11 | 3,402 | 16 | 10 | 1,353 | 6 | 11 |
| 65 years and older | 24,648 | 15 | 2,994 | 12 | 7 | 144 | 1 | 5 | 2,551 | 10 | 7 | 707 | 3 | 6 |
| Male | 80,753 | 48 | 29,009 | 36 | 69 | 2,339 | 3 | 78 | 24,514 | 30 | 69 | 8,918 | 11 | 72 |
| Female | 89,190 | 52 | 13,050 | 15 | 31 | 677 | 1 | 22 | 10,794 | 12 | 31 | 3,426 | 4 | 28 |
| Race: | | | | | | | | | | | | | | |
| White | 146,999 | 86 | 38,695 | 26 | 92 | 2,855 | 2 | 95 | 32,627 | 22 | 92 | 11,138 | 8 | 90 |
| Black | 18,175 | 11 | 2,549 | 14 | 6 | 133 | 1 | 4 | 2,163 | 12 | 6 | 790 | 4 | 6 |
| All others | 4,768 | 3 | 814 | 17 | 2 | 28 | 1 | 1 | 517 | 11 | 1 | 416 | 9 | 3 |

(See footnotes at end of table.)

Table 14. Selected Characteristics of Fishermen, by Type of Fishing: 1980 (Continued)

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

| Characteristic | U.S. population | | All fishermen | | | Freshwater | | | | | | Saltwater | | |
|--------------------------|-----------------|---------|---------------|-----------------------|---------|-------------|-----------------------|---------|--------|-----------------------|---------|-----------|-----------------------|---------|
| | | | | | | Great Lakes | | | Other | | | | | |
| | Number | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Annual household income: | | | | | | | | | | | | | | |
| Under \$5,000 | 12,997 | 8 | 1,978 | 15 | 5 | 115 | 1 | 4 | 1,742 | 13 | 5 | 397 | 3 | 3 |
| \$5,000-\$9,999 | 22,876 | 13 | 4,453 | 19 | 11 | 264 | 1 | 9 | 3,865 | 17 | 11 | 976 | 4 | 8 |
| \$10,000-\$14,999 | 21,210 | 12 | 5,530 | 26 | 13 | 308 | 1 | 10 | 4,666 | 22 | 13 | 1,603 | 8 | 13 |
| \$15,000-\$19,999 | 19,310 | 11 | 5,439 | 28 | 13 | 354 | 2 | 12 | 4,659 | 24 | 13 | 1,497 | 8 | 12 |
| \$20,000-\$24,999 | 21,966 | 13 | 7,014 | 32 | 17 | 493 | 2 | 16 | 5,962 | 27 | 17 | 2,111 | 10 | 17 |
| \$25,000-\$29,999 | 16,379 | 10 | 5,349 | 33 | 13 | 459 | 3 | 15 | 4,370 | 27 | 12 | 1,749 | 11 | 14 |
| \$30,000-\$39,999 | 13,764 | 8 | 4,510 | 33 | 11 | 351 | 3 | 12 | 3,743 | 27 | 11 | 1,404 | 10 | 11 |
| \$40,000-\$49,999 | 5,664 | 3 | 1,415 | 25 | 3 | 137 | 2 | 5 | 1,145 | 20 | 3 | 524 | 9 | 4 |
| \$50,000 or more | 5,854 | 3 | 1,514 | 26 | 4 | 131 | 2 | 4 | 1,196 | 20 | 3 | 548 | 9 | 4 |
| Not reported | 29,923 | 18 | 4,856 | 16 | 12 | 405 | 1 | 13 | 3,959 | 13 | 11 | 1,535 | 5 | 12 |
| Education: | | | | | | | | | | | | | | |
| None | 1,452 | 1 | 130 | 9 | (Z) | ... | ... | ... | 122 | 8 | (Z) | *33 | 2 | (Z) |
| 1-7 years | 12,453 | 7 | 2,098 | 17 | 5 | 97 | 1 | 3 | 1,833 | 15 | 5 | 495 | 4 | 4 |
| 8 years | 11,401 | 7 | 2,231 | 20 | 5 | 80 | 1 | 3 | 1,914 | 17 | 5 | 522 | 5 | 4 |
| 9-11 years | 28,555 | 17 | 7,690 | 27 | 18 | 530 | 2 | 18 | 6,597 | 23 | 19 | 2,000 | 7 | 16 |
| 12 years | 62,538 | 37 | 15,871 | 25 | 38 | 1,253 | 2 | 42 | 13,438 | 21 | 38 | 4,311 | 7 | 35 |
| 1-3 years college | 26,250 | 15 | 7,056 | 27 | 17 | 587 | 2 | 19 | 5,816 | 22 | 16 | 2,401 | 9 | 19 |
| 4 years college | 13,936 | 8 | 3,473 | 25 | 8 | 219 | 2 | 7 | 2,713 | 19 | 8 | 1,291 | 9 | 10 |
| 5 or more years college | 13,359 | 8 | 3,511 | 26 | 8 | 248 | 2 | 8 | 2,875 | 22 | 8 | 1,291 | 10 | 10 |

* Estimate based on a small sample size

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 15. Selected Characteristics of Hunters, by Type of Hunting: 1980

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

| Characteristic | U.S. population | | All hunters | | | Big game | | |
|----------------------------------|-----------------|---------|-------------|-----------------------|---------|----------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Total persons | 169,942 | 100 | 17,444 | 10 | 100 | 11,806 | 7 | 100 |
| Population density of residence: | | | | | | | | |
| Big cities | 22,968 | 14 | 883 | 4 | 5 | 517 | 2 | 4 |
| Small cities | 71,041 | 42 | 4,575 | 6 | 26 | 2,833 | 4 | 24 |
| Towns and rural areas | 75,934 | 45 | 11,987 | 16 | 69 | 8,456 | 11 | 72 |
| Census geographic division: | | | | | | | | |
| New England | 9,362 | 6 | 582 | 6 | 3 | 478 | 5 | 4 |
| Middle Atlantic | 27,867 | 16 | 2,098 | 8 | 12 | 1,929 | 7 | 16 |
| East North Central | 30,791 | 18 | 3,132 | 10 | 18 | 2,058 | 7 | 17 |
| West North Central | 12,774 | 8 | 2,014 | 16 | 12 | 929 | 7 | 8 |
| South Atlantic | 28,066 | 17 | 2,543 | 9 | 15 | 1,807 | 6 | 15 |
| East South Central | 10,792 | 6 | 1,659 | 15 | 10 | 986 | 9 | 8 |
| West South Central | 17,550 | 10 | 2,549 | 15 | 15 | 1,600 | 9 | 14 |
| Mountain | 8,415 | 5 | 1,292 | 15 | 7 | 998 | 12 | 8 |
| Pacific | 24,326 | 14 | 1,575 | 6 | 9 | 1,022 | 4 | 9 |
| Sex and age group: | | | | | | | | |
| Both sexes, total | 169,942 | 100 | 17,444 | 10 | 100 | 11,806 | 7 | 100 |
| 16-17 years | 8,612 | 5 | 1,288 | 15 | 7 | 798 | 9 | 7 |
| 18-24 years | 28,546 | 17 | 3,870 | 14 | 22 | 2,472 | 9 | 21 |
| 25-34 years | 37,742 | 22 | 4,917 | 13 | 28 | 3,446 | 9 | 29 |
| 35-44 years | 26,117 | 15 | 3,129 | 12 | 18 | 2,233 | 9 | 19 |
| 45-54 years | 22,555 | 13 | 1,945 | 9 | 11 | 1,335 | 6 | 11 |
| 55-64 years | 21,723 | 13 | 1,440 | 7 | 8 | 976 | 4 | 8 |
| 65 years and older | 24,648 | 15 | 857 | 3 | 5 | 546 | 2 | 5 |
| Male | 80,753 | 48 | 16,000 | 20 | 92 | 10,777 | 13 | 91 |
| Female | 89,190 | 52 | 1,444 | 2 | 8 | 1,029 | 1 | 9 |
| Race: | | | | | | | | |
| White | 146,999 | 86 | 16,641 | 11 | 95 | 11,419 | 8 | 97 |
| Black | 18,175 | 11 | 611 | 3 | 4 | 264 | 1 | 2 |
| All others | 4,768 | 3 | 193 | 4 | 1 | 123 | 3 | 1 |
| Annual household income: | | | | | | | | |
| Under \$5,000 | 12,997 | 8 | 697 | 5 | 4 | 419 | 3 | 4 |
| \$5,000-\$9,999 | 22,876 | 13 | 1,722 | 8 | 10 | 1,138 | 5 | 10 |
| \$10,000-\$14,999 | 21,210 | 12 | 2,334 | 11 | 13 | 1,517 | 7 | 13 |
| \$15,000-\$19,999 | 19,310 | 11 | 2,510 | 13 | 14 | 1,767 | 9 | 15 |
| \$20,000-\$24,999 | 21,966 | 13 | 2,952 | 13 | 17 | 2,069 | 9 | 18 |
| \$25,000-\$29,999 | 16,379 | 10 | 2,196 | 13 | 13 | 1,594 | 10 | 14 |
| \$30,000-\$39,999 | 13,764 | 8 | 1,650 | 12 | 9 | 1,105 | 8 | 9 |
| \$40,000-\$49,999 | 5,664 | 3 | 658 | 12 | 4 | 438 | 8 | 4 |
| \$50,000 or more | 5,854 | 3 | 647 | 11 | 4 | 370 | 6 | 3 |
| Not reported | 29,923 | 18 | 2,078 | 7 | 12 | 1,388 | 5 | 12 |

(See footnotes at end of table.)

Table 15. Selected Characteristics of Hunters, by Type of Hunting: 1980 (Continued)

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

| Characteristic | Small game | | | Migratory birds | | | Other animals | | |
|--------------------------|------------|-----------------------|---------|-----------------|-----------------------|---------|---------------|-----------------------|---------|
| | Number | Percent of population | Percent | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Race: | | | | | | | | | |
| White | 11,683 | 8 | 95 | 5,166 | 4 | 97 | 2,516 | 2 | 95 |
| Black | 546 | 3 | 4 | 80 | (Z) | 2 | 96 | 1 | 4 |
| All others | 133 | 3 | 1 | 65 | 1 | 1 | 30 | 1 | 1 |
| Annual household income: | | | | | | | | | |
| Under \$5,000 | 532 | 4 | 4 | 170 | 1 | 3 | 134 | 1 | 5 |
| \$5,000-\$9,999 | 1,290 | 6 | 10 | 342 | 1 | 6 | 293 | 1 | 11 |
| \$10,000-\$14,999 | 1,708 | 8 | 14 | 588 | 3 | 11 | 407 | 2 | 15 |
| \$15,000-\$19,999 | 1,769 | 9 | 14 | 734 | 4 | 14 | 399 | 2 | 15 |
| \$20,000-\$24,999 | 2,101 | 10 | 17 | 914 | 4 | 17 | 439 | 2 | 17 |
| \$25,000-\$29,999 | 1,529 | 9 | 12 | 716 | 4 | 13 | 289 | 2 | 11 |
| \$30,000-\$39,999 | 1,176 | 9 | 10 | 658 | 5 | 12 | 224 | 2 | 8 |
| \$40,000-\$49,999 | 443 | 8 | 4 | 258 | 5 | 5 | 70 | 1 | 3 |
| \$50,000 or more | 468 | 8 | 4 | 324 | 6 | 6 | 98 | 2 | 4 |
| Not reported | 1,346 | 4 | 11 | 607 | 2 | 11 | 290 | 1 | 11 |
| Education: | | | | | | | | | |
| None | 42 | 3 | (Z) | | | | | | |
| 1-7 years | 597 | 5 | 5 | 143 | 1 | 3 | 122 | 1 | 5 |
| 8 years | 608 | 5 | 5 | 149 | 1 | 3 | 121 | 1 | 5 |
| 9-11 years | 2,613 | 9 | 21 | 948 | 3 | 18 | 636 | 2 | 24 |
| 12 years | 4,999 | 8 | 40 | 1,987 | 3 | 37 | 1,109 | 2 | 42 |
| 1-3 years college | 1,990 | 8 | 16 | 1,058 | 4 | 20 | 393 | 1 | 15 |
| 4 years college | 760 | 5 | 6 | 513 | 4 | 10 | 125 | 1 | 5 |
| 5 years college or more | 753 | 6 | 6 | 504 | 4 | 9 | 133 | 1 | 5 |

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 16. Expenditures for Fishing and Hunting: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per sportsman (dollars) |
|-------------------------------------|-----------------------|-----------------------------|-------------------------------------|---------------------------------------|
| | Number (thousands) | Percent of all sportsmen | | |
| Total | 44,644 | 96 | 26,091,699 | 558.56 |
| Food and lodging: | | | | |
| Food | 33,602 | 72 | 4,436,002 | 94.96 |
| Lodging | 7,890 | 17 | 745,683 | 15.96 |
| Transportation: | | | | |
| Public | 878 | 2 | 217,582 | 4.66 |
| Private | 36,136 | 77 | 4,300,796 | 92.07 |
| Privilege and other fees: | | | | |
| Guide | 794 | 2 | 84,669 | 1.81 |
| Pack trip | 988 | 2 | 103,484 | 2.22 |
| Public land use | 3,128 | 7 | 60,386 | 1.29 |
| Private land use | 2,102 | 4 | 76,475 | 1.64 |
| Boat launching | 3,441 | 7 | 98,052 | 2.10 |
| Equipment rental | 4,328 | 9 | 244,532 | 5.23 |
| Fishing equipment | 29,094 | 62 | 2,034,473 | 43.55 |
| Hunting equipment | 13,373 | 29 | 2,034,742 | 43.56 |
| Licenses, tags, and permits: | | | | |
| Licenses | 33,863 | 72 | 490,761 | 10.51 |
| Duck stamps | 2,906 | 6 | 21,796 | 0.47 |
| Tags and permits | 7,937 | 17 | 81,978 | 1.75 |
| Auxiliary equipment: | | | | |
| Camping equipment | 3,121 | 7 | 256,696 | 5.50 |
| Binoculars, field glasses, etc | 1,074 | 2 | 72,369 | 1.55 |
| Snow shoes and skis | 232 | (2) | 23,578 | 0.50 |
| Special hunting clothes | 3,941 | 8 | 157,515 | 3.37 |
| Special fishing clothes | 2,208 | 5 | 70,731 | 1.51 |
| Rubber boots and waders | 2,586 | 6 | 69,899 | 1.50 |
| Maintenance and repair of equipment | 1,818 | 4 | 178,304 | 3.82 |
| Hunting boots and packs | 2,000 | 4 | 87,454 | 1.87 |
| Processing and taxidermy costs | 698 | 1 | 75,954 | 1.63 |
| Other | 485 | 1 | 31,331 | 0.67 |
| Special equipment | 12,532 | 27 | 8,967,632 | 191.97 |
| Magazines | 12,787 | 27 | 243,420 | 5.21 |
| Club dues | 6,852 | 15 | 206,921 | 4.43 |
| Land leasing and ownership | 1,208 | 3 | 618,485 | 13.24 |

Z Less than .5 percent.

Table 17. Expenditures for Fishing: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per fisherman (dollars) |
|---------------------------------------|-----------------------|-----------------------------|-------------------------------------|---------------------------------------|
| | Number (thousands) | Percent of all fishermen | | |
| Total | 39,437 | 94 | 17,324,656 | 411.91 |
| Food and lodging: | | | | |
| Food | 29,410 | 70 | 3,255,902 | 77.41 |
| Lodging | 6,743 | 16 | 604,991 | 14.38 |
| Transportation: | | | | |
| Public | 717 | 2 | 155,712 | 3.70 |
| Private | 31,284 | 74 | 2,897,230 | 68.89 |
| Privilege and other fees: | | | | |
| Guide | 688 | 2 | 63,051 | 1.50 |
| Pack trip | 923 | 2 | 67,848 | 1.61 |
| Public land use | 2,462 | 6 | 42,763 | 1.02 |
| Private land use | 1,509 | 4 | 39,783 | 0.95 |
| Boat launching | 3,441 | 8 | 98,052 | 2.33 |
| Equipment rental | 4,205 | 10 | 216,045 | 5.14 |
| Fishing equipment: | | | | |
| Freshwater rods | 10,563 | 25 | 344,210 | 8.18 |
| Freshwater reels | 8,549 | 20 | 264,670 | 6.29 |
| Saltwater rods | 2,046 | 5 | 109,810 | 2.61 |
| Saltwater reels | 1,915 | 5 | 99,588 | 2.37 |
| Lures, lines, hooks, etc. | 23,599 | 56 | 552,627 | 13.14 |
| Depth finders and fish finders | 465 | 1 | 70,084 | 1.67 |
| Tackle boxes | 4,694 | 11 | 65,956 | 1.57 |
| Minnow seines and traps | 1,203 | 3 | 14,667 | 0.35 |
| Minnow buckets and other bait holders | 4,262 | 10 | 29,097 | 0.69 |
| Scales | 534 | 1 | 2,919 | 0.07 |
| Knives | 4,524 | 11 | 66,564 | 1.58 |
| Prepared bait | 10,489 | 25 | 189,152 | 4.50 |
| Rod holders | 1,028 | 2 | 11,576 | 0.28 |
| Spear fishing equipment | 290 | 1 | 12,870 | 0.31 |
| Creels, stringers, and fish bags | 2,101 | 5 | 12,463 | 0.30 |
| Landing nets | 2,695 | 6 | 22,145 | 0.53 |
| Seines and other nets | 539 | 1 | 16,868 | 0.40 |
| Ice fishing equipment | 547 | 1 | 12,714 | 0.30 |
| Other | 3,953 | 9 | 136,493 | 3.25 |
| Licenses, tags, and permits: | | | | |
| Licenses | 26,698 | 63 | 264,478 | 6.29 |
| Stamps, tags, and permits | 4,427 | 11 | 44,364 | 1.05 |

(See footnotes at end of table.)

Table 17. Expenditures for Fishing: 1980 (Continued)

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per fisherman (dollars) |
|---|-----------------------|-----------------------------|-------------------------------------|---------------------------------------|
| | Number (thousands) | Percent of all fishermen | | |
| Auxiliary equipment used primarily for fishing: | | | | |
| Camping equipment | 1,982 | 5 | 162,288 | 3.86 |
| Binoculars, field glasses, etc. | 258 | 1 | 19,106 | 0.45 |
| Snow shoes and skis | 41 | (Z) | *2,930 | *0.07 |
| Special fishing clothes | 1,915 | 5 | 63,643 | 1.51 |
| Rubber boots and waders | 1,814 | 4 | 48,043 | 1.14 |
| Maintenance and repair of equipment | 1,304 | 3 | 126,993 | 3.02 |
| Processing and taxidermy costs | 189 | (Z) | 17,613 | 0.42 |
| Other | 328 | 1 | 17,605 | 0.42 |
| Special equipment | 9,023 | 21 | 6,449,230 | 153.34 |
| Magazine subscriptions | 8,184 | 19 | 155,650 | 3.70 |
| Membership dues | 4,522 | 11 | 136,462 | 3.24 |
| Land leasing and ownerships | 664 | 2 | 340,403 | 8.09 |

Note: Detail in tables 18 and 19 does not add to totals in this table because of multiple responses.

* Estimate based on a small sample size.

Z. Less than .5 percent.

Table 18. Expenditures for Freshwater Fishing: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per fisherman (dollars) |
|--|-----------------------|-----------------------------|-------------------------------------|---------------------------------------|
| | Number (thousands) | Percent of all fishermen | | |
| Total | 34,195 | 94 | 7,794,210 | 214.25 |
| ALL FRESHWATER | | | | |
| Fishing equipment used primarily in freshwater: | | | | |
| Freshwater rods | 10,404 | 29 | 339,452 | 9.33 |
| Freshwater reels | 8,421 | 23 | 260,509 | 7.16 |
| Lures, lines, hooks, etc. | 19,821 | 54 | 452,169 | 12.43 |
| Depth finders and fish finders | 360 | 1 | 44,340 | 1.22 |
| Tackle boxes | 3,982 | 11 | 53,203 | 1.46 |
| Minnow seines and traps | 1,087 | 3 | 13,177 | 0.36 |
| Minnow buckets and other bait holders | 3,836 | 11 | 25,624 | 0.70 |
| Scales | 429 | 1 | 2,039 | 0.06 |
| Knives | 3,450 | 9 | 49,379 | 1.36 |
| Prepared bait | 8,171 | 22 | 123,345 | 3.39 |
| Rod holders | 769 | 2 | 6,743 | 0.19 |
| Spear fishing equipment | 106 | (Z) | 2,466 | 0.07 |
| Creels, stringers, and fish bags | 1,913 | 5 | 10,962 | 0.30 |
| Landing nets | 2,247 | 6 | 17,738 | 0.49 |
| Seines and other nets | 329 | 1 | 7,856 | 0.22 |
| Ice fishing equipment | 527 | 1 | 12,298 | 0.34 |
| Other | 3,277 | 9 | 74,619 | 2.05 |
| Licenses, tags, and permits: | | | | |
| Licenses | 25,208 | 69 | 250,584 | 6.89 |
| Stamps, tags and permits | 4,077 | 11 | 42,484 | 1.17 |
| Auxiliary equipment used primarily for freshwater fishing: | | | | |
| Camping equipment | 1,833 | 5 | 153,127 | 4.21 |
| Binoculars, field glasses, etc. | 214 | 1 | 15,631 | 0.43 |
| Snow shoes and skis | *36 | (Z) | *2,551 | *0.07 |
| Special fishing clothes | 1,602 | 4 | 49,156 | 1.35 |
| Rubber boots and waders | 1,637 | 5 | 43,799 | 1.20 |
| Maintenance and repair of equipment | 990 | 3 | 75,761 | 2.08 |
| Processing and taxidermy costs | 177 | (Z) | 15,203 | 0.42 |
| Other | 287 | 1 | 13,296 | 0.37 |

(See footnotes at end of table.)

Table 18. Expenditures for Freshwater Fishing: 1980 (Continued)

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per fisherman (dollars) |
|---------------------------|-----------------------|-----------------------------|-------------------------------------|---------------------------------------|
| | Number (thousands) | Percent of all fishermen | | |
| FRESHWATER ¹ | | | | |
| Food and lodging: | | | | |
| Food | 23,433 | 66 | 2,342,692 | 66.35 |
| Lodging | 5,125 | 15 | 389,138 | 11.02 |
| Transportation: | | | | |
| Public | 339 | 1 | 78,386 | 2.22 |
| Private | 25,678 | 73 | 2,225,147 | 63.02 |
| Privilege and other fees: | | | | |
| Guide | 290 | 1 | 23,779 | 0.67 |
| Pack trip | 90 | (2) | 11,152 | 0.32 |
| Public land use | 2,020 | 6 | 31,518 | 0.89 |
| Private land use | 1,269 | 4 | 33,852 | 0.96 |
| Boat launching | 2,216 | 6 | 45,969 | 1.30 |
| Equipment rental | 2,403 | 7 | 81,578 | 2.31 |
| GREAT LAKES | | | | |
| Food and lodging: | | | | |
| Food | 2,211 | 73 | 171,497 | 56.86 |
| Lodging | 419 | 14 | 31,110 | 10.31 |
| Transportation: | | | | |
| Public | *36 | 1 | *6,500 | *2.15 |
| Private | 2,263 | 75 | 132,280 | 43.86 |
| Privilege and other fees: | | | | |
| Guide | 82 | 3 | 4,570 | 1.52 |
| Pack trip | 32 | 1 | *1,716 | *0.57 |
| Public land use | 82 | 3 | 1,837 | 0.61 |
| Private land use | *35 | 1 | *478 | *0.16 |
| Boat launching | 363 | 12 | 15,302 | 5.07 |
| Equipment rental | 244 | 8 | 8,199 | 2.72 |

* Estimate based on a small sample size.

2 Less than .5 percent.

¹ Excludes Great Lakes.

Table 19. Expenditures for Saltwater Fishing: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per fisherman (dollars) |
|---|-----------------------|-----------------------------|-------------------------------------|---------------------------------------|
| | Number (thousands) | Percent of all fishermen | | |
| Total | 10,251 | 85 | 2 419.113 | 199.88 |
| Food and lodging: | | | | |
| Food | 8,243 | 68 | 741.698 | 61.28 |
| Lodging | 1,572 | 13 | 184.742 | 15.26 |
| Transportation: | | | | |
| Public | 377 | 3 | 70.826 | 5.85 |
| Private | 8,137 | 67 | 539.758 | 44.60 |
| Privilege and other fees: | | | | |
| Guide | 344 | 3 | 34.703 | 2.87 |
| Pack trip | 816 | 7 | 54.979 | 4.54 |
| Public land use | 418 | 3 | 9.408 | 0.78 |
| Private land use | 232 | 2 | 5.453 | 0.45 |
| Boat launching | 1,093 | 9 | 36.782 | 3.04 |
| Equipment rental | 1,764 | 15 | 126.267 | 10.43 |
| Fishing equipment used primarily in saltwater: | | | | |
| Saltwater rods | 1,963 | 16 | 106.525 | 8.80 |
| Saltwater reels | 1,784 | 15 | 95.104 | 7.86 |
| Lures, lines, hooks, etc. | 3,553 | 29 | 94.152 | 7.78 |
| Depth finders and fish finders | 99 | 1 | 25.169 | 2.08 |
| Tackle boxes | 681 | 6 | 11.582 | 0.96 |
| Minnow seines and traps | 109 | 1 | 1.426 | 0.12 |
| Minnow buckets and other bait holders | 412 | 3 | 3.379 | 0.28 |
| Scales | 101 | 1 | 856 | 0.07 |
| Knives | 1,023 | 8 | 16.150 | 1.33 |
| Prepared bait | 2,257 | 19 | 64.619 | 5.34 |
| Rod holders | 253 | 2 | 4.684 | 0.39 |
| Spear fishing equipment | 174 | 1 | 9.979 | 0.82 |
| Creels, stringers, and fish bags | 177 | 1 | 1.427 | 0.12 |
| Landing nets | 424 | 4 | 4.198 | 0.35 |
| Seines and other nets | 203 | 2 | 8.752 | 0.72 |
| Other | 694 | 6 | 61.085 | 5.05 |
| Licenses, tags, and permits: | | | | |
| Licenses | 1,893 | 16 | 13.833 | 1.14 |
| Stamps, tags and permits | 468 | 4 | 1.881 | 0.16 |
| Auxiliary equipment used primarily for saltwater fishing: | | | | |
| Camping equipment | 149 | 1 | 9.161 | 0.76 |
| Binoculars, field glasses, etc. | 44 | (Z) | 3.475 | 0.29 |
| Snow shoes and skis | .. | .. | .. | .. |
| Special fishing clothes | 313 | 3 | 14.487 | 1.20 |
| Rubber boots and waders | 177 | 1 | 4.244 | 0.35 |
| Maintenance and repair of equipment | 313 | 3 | 51.232 | 4.23 |
| Processing and taxidermy costs | .. | .. | .. | .. |
| Other | *42 | (Z) | *4.309 | *0.36 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 20. Expenditures for Hunting: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per hunter (dollars) |
|---|-----------------------|---------------------------|-------------------------------------|------------------------------------|
| | Number (thousands) | Percent of all hunters | | |
| Total | 16.438 | 94 | 8,545,148 | 489.85 |
| Food and lodging: | | | | |
| Food | 12,187 | 70 | 1,180,101 | 67.65 |
| Lodging | 1,730 | 10 | 140,692 | 8.07 |
| Transportation: | | | | |
| Public | 535 | 3 | 61,870 | 3.55 |
| Private | 14,488 | 83 | 1,403,567 | 80.46 |
| Privilege and other fees: | | | | |
| Guide | 248 | 1 | 21,618 | 1.24 |
| Pack trip | 226 | 1 | 35,636 | 2.04 |
| Public land use | 900 | 5 | 17,623 | 1.01 |
| Private land use | 803 | 5 | 36,692 | 2.10 |
| Equipment rental | 371 | 2 | 28,487 | 1.63 |
| Hunting equipment: | | | | |
| Guns and rifles | 3,239 | 19 | 902,204 | 51.72 |
| Bows and arrows | 1,134 | 7 | 104,507 | 5.99 |
| Telescopic sights | 1,079 | 6 | 105,678 | 6.06 |
| Decoys and game calls | 780 | 4 | 27,530 | 1.58 |
| Game carriers | 359 | 2 | 6,965 | 0.40 |
| Ammunition | 12,414 | 71 | 449,638 | 25.78 |
| Hand loading equipment | 1,156 | 7 | 95,119 | 5.45 |
| Equipment cases and carriers | 1,249 | 7 | 34,969 | 2.00 |
| Hunting dogs and associated costs | 1,020 | 6 | 275,084 | 15.77 |
| Other | 426 | 2 | 33,049 | 1.89 |
| Licenses, tags, and permits: | | | | |
| Licenses | 11,989 | 69 | 205,214 | 11.76 |
| Federal duck stamps | 2,791 | 16 | 20,932 | 1.20 |
| Other stamps, tags and permits | 3,802 | 22 | 35,453 | 2.03 |
| Auxiliary equipment used primarily for hunting: | | | | |
| Camping equipment | 556 | 3 | 45,147 | 2.59 |
| Binoculars, field glasses, etc. | 558 | 3 | 38,564 | 2.21 |
| Snow shoes and skis | 66 | (2) | 5,575 | 0.32 |
| Special hunting clothes | 3,332 | 19 | 129,191 | 7.41 |
| Rubber boots and waders | 504 | 3 | 14,781 | 0.85 |
| Maintenance and repair of equipment | 272 | 2 | 20,232 | 1.16 |
| Hunting boots and packs | 1,482 | 9 | 63,693 | 3.65 |
| Processing and taxidermy costs | 424 | 2 | 42,682 | 2.45 |
| Other | 99 | 1 | 7,942 | 0.46 |
| Special equipment | 3,509 | 20 | 2,518,402 | 144.37 |
| Magazine subscriptions | 4,603 | 26 | 87,770 | 5.03 |
| Membership dues | 2,330 | 13 | 70,459 | 4.04 |
| Land leasing and ownership | 544 | 3 | 278,082 | 15.94 |

Note: Detail in tables 21-24 does not add to totals in this table because of multiple responses.

Z. Less than .5 percent.

Table 21. Expenditures for Big Game Hunting: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per hunter (dollars) |
|---|-----------------------|---------------------------|-------------------------------------|------------------------------------|
| | Number (thousands) | Percent of all hunters | | |
| Total | 11,490 | 97 | 2,789,651 | 236.29 |
| Food and lodging: | | | | |
| Food | 8,657 | 73 | 667,605 | 56.55 |
| Lodging | 1,052 | 9 | 91,575 | 7.76 |
| Transportation: | | | | |
| Public | 117 | 1 | 35,047 | 2.97 |
| Private | 9,896 | 84 | 650,010 | 55.06 |
| Privilege and other fees: | | | | |
| Guide | 53 | (Z) | 14,730 | 1.25 |
| Pack trip | 46 | (Z) | 11,738 | 0.99 |
| Public land use | 448 | 4 | 12,218 | 1.03 |
| Private land use | 366 | 3 | 18,542 | 1.57 |
| Equipment rental | 92 | 1 | 12,904 | 1.09 |
| Hunting equipment used primarily for big game hunting: | | | | |
| Guns and rifles | 1,531 | 13 | 442,527 | 37.48 |
| Bows and arrows | 993 | 8 | 91,677 | 7.77 |
| Telescopic sights | 782 | 7 | 82,812 | 7.01 |
| Decoys and game calls | 120 | 1 | 1,554 | 0.13 |
| Game carriers | 55 | (Z) | 2,248 | 0.19 |
| Ammunition | 4,759 | 40 | 122,068 | 10.34 |
| Hand loading equipment | 489 | 4 | 28,616 | 2.42 |
| Equipment cases and carriers | 549 | 5 | 15,698 | 1.33 |
| Hunting dogs and associated costs | 163 | 1 | 44,404 | 3.76 |
| Other | 242 | 2 | 17,099 | 1.45 |
| Licenses, tags, and permits: | | | | |
| Licenses | 7,485 | 63 | 134,010 | 11.35 |
| Stamps, tags and permits | 2,224 | 19 | 21,848 | 1.85 |
| Auxiliary equipment used primarily for big game hunting: | | | | |
| Camping equipment | 460 | 4 | 37,504 | 3.18 |
| Binoculars, field glasses, etc. | 443 | 4 | 32,492 | 2.75 |
| Snow shoes and skis | 29 | (Z) | 1,527 | 0.13 |
| Special hunting clothes | 2,409 | 20 | 93,546 | 7.92 |
| Rubber boots and waders | 164 | 1 | 3,869 | 0.33 |
| Maintenance and repair of equipment | 157 | 1 | 13,488 | 1.14 |
| Hunting boots and packs | 1,033 | 9 | 45,706 | 3.87 |
| Processing and taxidermy costs | 323 | 3 | 35,390 | 3.00 |
| Other | 86 | 1 | 7,198 | 0.61 |

Z Less than .5 percent.

Table 22. Expenditures for Small Game Hunting: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per hunter (dollars) |
|---|-----------------------|---------------------------|-------------------------------------|------------------------------------|
| | Number (thousands) | Percent of all hunters | | |
| Total | 10,992 | 89 | 1,663,436 | 134.56 |
| Food and lodging: | | | | |
| Food | 6,267 | 51 | 336,124 | 27.19 |
| Lodging | 347 | 3 | 29,795 | 2.41 |
| Transportation: | | | | |
| Public | 56 | (Z) | 15,923 | 1.29 |
| Private | 8,823 | 71 | 485,666 | 39.29 |
| Privilege and other fees: | | | | |
| Guide | *17 | (Z) | *772 | *0.06 |
| Pack trip | *15 | (Z) | *668 | *0.05 |
| Public land use | 217 | 2 | 2,848 | 0.23 |
| Private land use | 188 | 2 | 9,430 | 0.76 |
| Equipment rental | 28 | (Z) | 13,873 | 1.12 |
| Hunting equipment used primarily for small game hunting: | | | | |
| Guns and rifles | 1,104 | 9 | 261,899 | 21.19 |
| Bows and arrows | 78 | 1 | 6,659 | 0.54 |
| Telescopic sights | 187 | 2 | 10,737 | 0.87 |
| Decoys and game calls | 81 | 1 | 1,333 | 0.11 |
| Game carriers | 216 | 2 | 3,247 | 0.26 |
| Ammunition | 4,910 | 40 | 178,478 | 14.44 |
| Hand loading equipment | 303 | 2 | 31,128 | 2.52 |
| Equipment cases and carriers | 407 | 3 | 10,548 | 0.85 |
| Hunting dogs and associated costs | 554 | 4 | 128,665 | 10.41 |
| Other | 86 | 1 | 4,237 | 0.34 |
| Licenses, tags, and permits: | | | | |
| Licenses | 5,368 | 43 | 59,682 | 4.83 |
| Stamps, tags and permits | 616 | 5 | 3,814 | 0.31 |
| Auxiliary equipment used primarily for small game hunting: | | | | |
| Camping equipment | 82 | 1 | 6,659 | 0.54 |
| Binoculars field glasses, etc. | 88 | 1 | 4,758 | 0.38 |
| Snow shoes and skis | 32 | (Z) | 3,291 | 0.27 |
| Special hunting clothes | 731 | 6 | 24,959 | 2.02 |
| Rubber boots and waders | 111 | 1 | 3,040 | 0.25 |
| Maintenance and repair of equipment | 80 | 1 | 3,703 | 0.30 |
| Hunting boots and packs | 403 | 3 | 16,342 | 1.32 |
| Processing and taxidermy costs | 64 | 1 | 4,427 | 0.36 |
| Other | *16 | (Z) | *729 | *0.06 |

* Estimate based on a small sample size.

Z Less than .5 percent.

Table 23. Expenditures for Migratory Bird Hunting: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per hunter (dollars) |
|---|-----------------------|---------------------------|-------------------------------------|------------------------------------|
| | Number (thousands) | Percent of all hunters | | |
| Total | 4,651 | 88 | 637,949 | 120.12 |
| Food and lodging: | | | | |
| Food | 3,084 | 58 | 143,183 | 26.96 |
| Lodging | 232 | 4 | 17,861 | 3.36 |
| Transportation: | | | | |
| Public | 35 | 1 | 8,576 | 1.61 |
| Private | 3,945 | 74 | 179,708 | 33.84 |
| Privilege and other fees: | | | | |
| Guide | 43 | 1 | 4,013 | 0.76 |
| Pack trip | *11 | (Z) | *737 | *0.14 |
| Public land use | 138 | 3 | 2,502 | 0.47 |
| Private land use | 169 | 3 | 8,104 | 1.53 |
| Equipment rental | 59 | 1 | 1,386 | 0.26 |
| Hunting equipment used primarily for migratory bird hunting: | | | | |
| Guns and rifles | 228 | 4 | 63,559 | 11.97 |
| Bows and arrows | ... | ... | ... | ... |
| Telescopic sights | ... | ... | ... | ... |
| Decoys and game calls | 501 | 9 | 23,003 | 4.33 |
| Game carriers | 63 | 1 | 829 | 0.16 |
| Ammunition | 1,333 | 25 | 69,657 | 13.12 |
| Hand loading equipment | 145 | 3 | 11,523 | 2.17 |
| Equipment cases and carriers | 126 | 2 | 3,141 | 0.59 |
| Hunting dogs and associated costs | 116 | 2 | 26,259 | 4.94 |
| Other | 38 | 1 | 3,336 | 0.63 |
| Licenses, tags, and permits: | | | | |
| Licenses | 861 | 16 | 11,250 | 2.12 |
| Federal duck stamps | 2,489 | 47 | 18,671 | 3.52 |
| Other stamps, tags and permits | 1,309 | 25 | 9,687 | 1.82 |
| Auxiliary equipment used primarily for migratory bird hunting: | | | | |
| Camping equipment | *15 | (Z) | *984 | *0.19 |
| Binoculars, field glasses, etc. | *27 | 1 | *1,315 | *0.25 |
| Snow shoes and skis | ... | ... | ... | ... |
| Special hunting clothes | 192 | 4 | 10,686 | 2.01 |
| Rubber boots and waders | 229 | 4 | 7,865 | 1.48 |
| Maintenance and repair of equipment | 35 | 1 | 3,041 | 0.57 |
| Hunting boots and packs | 46 | 1 | 1,645 | 0.31 |
| Processing and taxidermy costs | 36 | 1 | 2,746 | 0.52 |
| Other | ... | ... | ... | ... |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

† Less than total reported in table 20 because not all purchasers hunted waterfowl in 1980.

Table 24. Expenditures for Hunting Other Animals: 1980

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

| Expenditure item | Spenders | | Amount (thousands of dollars) | Average per hunter (dollars) |
|--|-----------------------|---------------------------|-------------------------------------|------------------------------------|
| | Number (thousands) | Percent of all hunters | | |
| Total | 1,681 | 64 | 251,360 | 95.14 |
| Food and lodging: | | | | |
| Food | 868 | 33 | 33,189 | 12.56 |
| Lodging | *17 | 1 | *1,461 | *0.55 |
| Transportation: | | | | |
| Public | ... | ... | ... | ... |
| Private | 1,497 | 57 | 88,182 | 33.38 |
| Privilege and other fees: | | | | |
| Guide | ... | ... | ... | ... |
| Pack trip | ... | ... | ... | ... |
| Public land use | *11 | (Z) | *55 | *0.02 |
| Private land use | *18 | 1 | *616 | *0.23 |
| Equipment rental | ... | ... | ... | ... |
| Hunting equipment used primarily for other hunting: | | | | |
| Guns and rifles | 68 | 3 | 17,587 | 6.66 |
| Bows and arrows | ... | ... | ... | ... |
| Telescopic sights | 42 | 2 | 5,721 | 2.17 |
| Decoys and game calls | 56 | 2 | 1,349 | 0.51 |
| Game carriers | ... | (Z) | 205 | 0.08 |
| Ammunition | 193 | ... | ... | ... |
| Hand loading equipment | 51 | 2 | 5,233 | 1.98 |
| Equipment cases and carriers | *16 | 1 | *484 | *0.18 |
| Hunting dogs and associated costs | 131 | 5 | 55,428 | 20.98 |
| Other | 32 | 1 | 7,047 | 2.67 |
| Licenses, tags, and permits: | | | | |
| Licenses | *21 | 1 | *272 | *0.10 |
| Stamps, tags and permits | ... | ... | ... | ... |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 25. Special Equipment Purchased or Available for Fishing and Hunting: 1980

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

| Expenditure item | Purchased in 1980 primarily for fishing or hunting | | | | Available or already owned in 1980 | |
|--|--|--------------------------------|-------------------------------------|-------------------------------------|------------------------------------|--------------------------------|
| | Spenders | | Amount (thousands of dollars) | Average per spender (dollars) | Sportsmen (thousands) | Percent of all sportsmen |
| | Number (thousands) | Percent of all sportsmen | | | | |
| Total | 12,532 | 27 | 8,967,632 | 716 | 25,780 | 55 |
| Inboard boat | 149 | (Z) | 599,723 | 4,028 | 2,976 | 6 |
| Outboard boat | 1,054 | 2 | 1,319,764 | 1,253 | 14,706 | 31 |
| Other boat | 414 | 1 | 323,346 | 781 | 5,205 | 11 |
| Outboard motor | 1,099 | 2 | 627,825 | 571 | 12,935 | 28 |
| Boat accessories | 1,584 | 3 | 221,600 | 140 | 10,738 | 23 |
| Travel or tent trailer | 326 | 1 | 569,661 | 1,747 | 4,286 | 9 |
| Pickup camper or van | 549 | 1 | 1,436,371 | 2,615 | 6,643 | 14 |
| Motorhome | 66 | (Z) | 542,471 | 8,194 | 1,443 | 3 |
| Boat trailers and hitches | 858 | 2 | 181,456 | 212 | 8,589 | 18 |
| Cabins | 89 | (Z) | 467,298 | 5,257 | 3,424 | 7 |
| Trail bikes, dune buggies, and 4 × 4 vehicles | 491 | 1 | 1,532,999 | 3,123 | 3,489 | 7 |
| Gasoline for boat | 10,879 | 23 | 837,611 | 77 | 4,538 | 10 |
| Other | 566 | 1 | 307,508 | 543 | 639 | 1 |

Z Less than .5 percent.

Table 26. Summary of Expenditures for Fishing and Hunting, by Type of Fishing and Hunting: 1980

(Thousands of dollars. U.S. population 16 years old and older)

| Expenditure item | Fishing | | | | |
|------------------------------|---------------------|-------------|------------|-----------------|---------------|
| | Hunting and fishing | Freshwater | | | |
| | | All fishing | Total | Great Lakes | Saltwater |
| Total | 26,091,698 | 17,324,656 | 7,794,209 | 373,488 | 2,419,113 |
| Food and lodging | 5,181,685 | 3,860,892 | 2,934,438 | 202,607 | 926,440 |
| Transportation | 4,518,379 | 3,052,942 | 2,442,313 | 138,779 | 610,584 |
| Privilege and other fees | 667,598 | 527,541 | 259,950 | 32,102 | 267,591 |
| Equipment (hunting, fishing) | 4,069,215 | 2,034,473 | 1,495,917 | (NA) | 509,088 |
| Licenses, tags and permits | 594,535 | 308,842 | 293,067 | (NA) | 15,714 |
| Auxiliary equipment | 1,023,830 | 458,221 | 368,524 | (NA) | 89,697 |
| Special equipment | 8,967,632 | 6,449,230 | (NA) | (NA) | (NA) |
| Magazine subscriptions | 243,420 | 155,650 | (NA) | (NA) | (NA) |
| Membership dues | 206,921 | 136,462 | (NA) | (NA) | (NA) |
| Land leasing and ownership | 618,485 | 340,403 | (NA) | (NA) | (NA) |
| | Hunting | | | | |
| | All hunting | Big game | Small game | Migratory birds | Other animals |
| Total | 8,545,148 | 2,789,651 | 1,663,436 | 637,949 | 251,360 |
| Food and lodging | 1,320,793 | 759,180 | 365,919 | 161,044 | 34,650 |
| Transportation | 1,465,437 | 685,057 | 501,589 | 188,285 | 90,505 |
| Privilege and other fees | 140,056 | 70,132 | 27,591 | 16,741 | 25,592 |
| Equipment (hunting, fishing) | 2,034,742 | 848,704 | 636,933 | 203,216 | 100,110 |
| Licenses, tags and permits | 261,599 | 155,858 | 63,497 | 39,609 | *375 |
| Auxiliary equipment | 367,808 | 270,720 | 67,907 | 29,054 | *127 |
| Special equipment | 2,518,402 | (NA) | (NA) | (NA) | (NA) |
| Magazine subscriptions | 87,770 | (NA) | (NA) | (NA) | (NA) |
| Membership dues | 70,459 | (NA) | (NA) | (NA) | (NA) |
| Land leasing and ownership | 278,082 | (NA) | (NA) | (NA) | (NA) |

* Estimate based on a small sample size.

NA Not available.

Table 27. License Status of Freshwater Fishermen and Hunters: 1980

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

| Characteristic | Hunters | | Fishermen | |
|------------------------------|---------|---------|-----------|---------|
| | Number | Percent | Number | Percent |
| Total | 17,444 | 100 | 36,378 | 100 |
| Total licensed | 15,781 | 90 | 29,314 | 80 |
| Resident | 15,013 | 86 | 26,777 | 73 |
| Nonresident | 1,725 | 9 | 5,666 | 15 |
| Total unlicensed | 1,510 | 8 | 6,927 | 19 |
| Exempt | 917 | 5 | 3,409 | 9 |
| Over age | 349 | 1 | 1,400 | 3 |
| Under age | 80 | (Z) | 542 | 1 |
| Hunted or fished on own land | 221 | 1 | 340 | (Z) |
| Military | ... | ... | *17 | (Z) |
| Disabled | 31 | (Z) | 109 | (Z) |
| Other | 55 | (Z) | 294 | (Z) |
| Nonexempt | 983 | 5 | 4,791 | 13 |

Note: Detail does not add to total because of nonresponse or multiple responses; respondents could have been licensed in one State and exempt in another.

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 28. Selected Characteristics of Freshwater Fishermen and Hunters, by License Status: 1980

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

| Characteristic | Freshwater fishermen | | | | | | Hunters | | | | | |
|----------------------------------|----------------------|---------|----------|---------|------------|---------|---------|---------|----------|---------|------------|---------|
| | Total | | Licensed | | Unlicensed | | Total | | Licensed | | Unlicensed | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total persons | 36,378 | 100 | 29,314 | 81 | 6,927 | 19 | 17,444 | 100 | 15,781 | 90 | 1,510 | 9 |
| Population density of residence: | | | | | | | | | | | | |
| Big cities | 2,503 | 100 | 1,913 | 76 | 590 | 24 | 883 | 100 | 741 | 84 | 116 | 13 |
| Small cities | 12,718 | 100 | 10,392 | 82 | 2,263 | 18 | 4,575 | 100 | 4,131 | 90 | 389 | 9 |
| Towns and rural areas | 21,157 | 100 | 17,010 | 80 | 4,075 | 19 | 11,987 | 100 | 10,909 | 91 | 1,005 | 8 |
| Census geographic division: | | | | | | | | | | | | |
| New England | 1,268 | 100 | 1,030 | 81 | 231 | 18 | 582 | 100 | 558 | 96 | *24 | 4 |
| Middle Atlantic | 2,940 | 100 | 2,302 | 78 | 614 | 21 | 2,098 | 100 | 1,998 | 95 | 86 | 4 |
| East North Central | 7,791 | 100 | 6,313 | 81 | 1,454 | 19 | 3,132 | 100 | 2,852 | 91 | 254 | 8 |
| West North Central | 4,193 | 100 | 3,513 | 84 | 667 | 16 | 2,014 | 100 | 1,810 | 90 | 195 | 10 |
| South Atlantic | 5,470 | 100 | 3,911 | 72 | 1,534 | 28 | 2,543 | 100 | 2,263 | 89 | 264 | 10 |
| East South Central | 3,186 | 100 | 2,387 | 75 | 792 | 25 | 1,659 | 100 | 1,479 | 89 | 175 | 11 |
| West South Central | 4,567 | 100 | 3,589 | 79 | 951 | 21 | 2,549 | 100 | 2,240 | 88 | 285 | 11 |
| Mountain | 2,373 | 100 | 2,170 | 91 | 196 | 8 | 1,292 | 100 | 1,239 | 96 | 44 | 3 |
| Pacific | 4,590 | 100 | 4,098 | 89 | 488 | 11 | 1,575 | 100 | 1,341 | 85 | 182 | 12 |
| Sex and age group: | | | | | | | | | | | | |
| Both sexes, total | 36,378 | 100 | 29,314 | 81 | 6,927 | 19 | 17,444 | 100 | 15,781 | 90 | 1,510 | 9 |
| 16-17 years | 2,208 | 100 | 1,095 | 50 | 1,093 | 50 | 1,288 | 100 | 1,050 | 82 | 224 | 17 |
| 18-24 years | 6,620 | 100 | 5,044 | 76 | 1,538 | 23 | 3,870 | 100 | 3,372 | 87 | 472 | 12 |
| 25-34 years | 10,318 | 100 | 8,695 | 84 | 1,596 | 15 | 4,917 | 100 | 4,558 | 93 | 305 | 6 |
| 35-44 years | 6,462 | 100 | 5,506 | 85 | 938 | 15 | 3,129 | 100 | 2,957 | 95 | 159 | 5 |
| 45-54 years | 4,603 | 100 | 4,055 | 88 | 530 | 12 | 1,945 | 100 | 1,833 | 94 | 84 | 4 |
| 55-64 years | 3,548 | 100 | 3,093 | 87 | 446 | 13 | 1,440 | 100 | 1,342 | 93 | 84 | 6 |
| 65 years and older | 2,619 | 100 | 1,827 | 70 | 787 | 30 | 857 | 100 | 668 | 78 | 180 | 21 |
| Male | 25,256 | 100 | 21,252 | 84 | 3,935 | 16 | 16,000 | 100 | 14,589 | 91 | 1,287 | 8 |
| Female | 11,123 | 100 | 8,062 | 72 | 2,993 | 27 | 1,444 | 100 | 1,191 | 82 | 223 | 15 |
| Race: | | | | | | | | | | | | |
| White | 33,638 | 100 | 27,344 | 81 | 6,176 | 18 | 16,641 | 100 | 15,110 | 91 | 1,380 | 8 |
| Black | 2,207 | 100 | 1,550 | 70 | 649 | 29 | 611 | 100 | 517 | 85 | 91 | 15 |
| All others | 533 | 100 | 420 | 79 | 103 | 19 | 193 | 100 | 153 | 80 | 39 | 20 |

(See footnotes at end of table.)

Table 28. Selected Characteristics of Freshwater Fishermen and Hunters, by License Status: 1980 (Continued)

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

| Characteristic | Freshwater fishermen | | | | | | Hunters | | | | | |
|--------------------------|----------------------|---------|----------|---------|------------|---------|---------|---------|----------|---------|------------|---------|
| | Total | | Licensed | | Unlicensed | | Total | | Licensed | | Unlicensed | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Annual household income: | | | | | | | | | | | | |
| Under \$5,000 | 1,780 | 100 | 1,217 | 68 | 551 | 31 | 697 | 100 | 571 | 82 | 113 | 16 |
| \$5,000-\$9,999 | 3,982 | 100 | 2,961 | 74 | 1,008 | 25 | 1,722 | 100 | 1,490 | 87 | 222 | 13 |
| \$10,000-\$14,999 | 4,772 | 100 | 3,804 | 80 | 955 | 20 | 2,334 | 100 | 2,049 | 88 | 276 | 12 |
| \$15,000-\$19,999 | 4,755 | 100 | 3,955 | 83 | 775 | 16 | 2,510 | 100 | 2,361 | 94 | 132 | 5 |
| \$20,000-\$24,999 | 6,115 | 100 | 5,041 | 82 | 1,042 | 17 | 2,952 | 100 | 2,725 | 92 | 188 | 6 |
| \$25,000-\$29,999 | 4,523 | 100 | 3,692 | 82 | 820 | 18 | 2,196 | 100 | 2,053 | 93 | 132 | 6 |
| \$30,000-\$39,999 | 3,867 | 100 | 3,313 | 86 | 546 | 14 | 1,650 | 100 | 1,494 | 91 | 135 | 8 |
| \$40,000-\$49,999 | 1,198 | 100 | 1,017 | 85 | 177 | 15 | 658 | 100 | 595 | 90 | 54 | 8 |
| \$50,000 or more | 1,253 | 100 | 1,017 | 81 | 228 | 18 | 647 | 100 | 564 | 87 | 72 | 11 |
| Not reported | 4,134 | 100 | 3,292 | 80 | 825 | 20 | 2,078 | 100 | 1,879 | 90 | 186 | 9 |
| Education: | | | | | | | | | | | | |
| None | 124 | 100 | 103 | 83 | 20 | 16 | 49 | 100 | 44 | 89 | ... | ... |
| 1-7 years | 1,870 | 100 | 1,399 | 75 | 467 | 25 | 820 | 100 | 703 | 86 | 108 | 13 |
| 8 years | 1,952 | 100 | 1,448 | 74 | 491 | 25 | 927 | 100 | 801 | 86 | 112 | 12 |
| 9-11 years | 6,780 | 100 | 4,910 | 72 | 1,828 | 27 | 3,494 | 100 | 3,089 | 88 | 381 | 11 |
| 12 years | 13,908 | 100 | 11,712 | 84 | 2,162 | 16 | 7,131 | 100 | 6,581 | 92 | 493 | 7 |
| 1-3 years college | 6,004 | 100 | 5,090 | 85 | 886 | 15 | 2,811 | 100 | 2,542 | 90 | 234 | 8 |
| 4 years college | 2,799 | 100 | 2,251 | 80 | 542 | 19 | 1,143 | 100 | 1,049 | 92 | 85 | 7 |
| 5 or more years college | 2,942 | 100 | 2,398 | 82 | 532 | 18 | 1,068 | 100 | 970 | 91 | 91 | 9 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 29. Selected Characteristics of Freshwater Fishermen, by Type of Water Fished: 1980

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

| Characteristic | Total | | Manmade lakes and reservoirs (10 acres or more) | | Manmade ponds and reservoirs (less than 10 acres) | | Natural lakes and ponds | | Rivers and streams | | Other | |
|----------------------------------|--------|---------|---|---------|---|---------|-------------------------|---------|--------------------|---------|--------|---------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total persons | 36,378 | 100 | 14,524 | 40 | 8,286 | 23 | 14,579 | 40 | 15,757 | 43 | 608 | 2 |
| Population density of residence: | | | | | | | | | | | | |
| Big cities | 2,503 | 7 | 1,038 | 41 | 377 | 15 | 994 | 40 | 953 | 38 | 72 | 3 |
| Small cities | 12,718 | 35 | 5,214 | 41 | 2,201 | 17 | 5,831 | 46 | 5,095 | 40 | 296 | 2 |
| Towns and rural areas | 21,157 | 58 | 8,272 | 39 | 5,708 | 27 | 7,754 | 37 | 9,710 | 46 | 240 | 1 |
| Census geographic division: | | | | | | | | | | | | |
| New England | 1,268 | 3 | 272 | 21 | 187 | 15 | 918 | 72 | 762 | 60 | ... | ... |
| Middle Atlantic | 2,940 | 8 | 785 | 27 | 607 | 21 | 1,267 | 43 | 1,781 | 61 | 58 | 2 |
| East North Central | 7,791 | 21 | 2,462 | 32 | 1,673 | 21 | 4,319 | 55 | 2,925 | 38 | 323 | 4 |
| West North Central | 4,193 | 12 | 1,563 | 37 | 1,077 | 26 | 2,055 | 49 | 1,689 | 40 | *27 | 1 |
| South Atlantic | 5,470 | 15 | 2,165 | 40 | 1,527 | 28 | 1,410 | 26 | 2,325 | 43 | 82 | 1 |
| East South Central | 3,186 | 9 | 1,441 | 45 | 1,058 | 33 | 829 | 26 | 1,280 | 40 | *25 | 1 |
| West South Central | 4,567 | 13 | 2,605 | 57 | 1,122 | 25 | 1,070 | 23 | 1,514 | 33 | *38 | 1 |
| Mountain | 2,373 | 7 | 1,411 | 59 | 483 | 20 | 861 | 36 | 1,232 | 52 | *18 | 1 |
| Pacific | 4,590 | 13 | 1,821 | 40 | 553 | 12 | 1,850 | 40 | 2,249 | 49 | *27 | 1 |
| Sex and age group: | | | | | | | | | | | | |
| Both sexes, total | 36,378 | 100 | 14,524 | 40 | 8,286 | 23 | 14,579 | 40 | 15,757 | 43 | 608 | 2 |
| 16-17 years | 2,208 | 6 | 810 | 37 | 696 | 32 | 905 | 41 | 1,034 | 47 | 54 | 2 |
| 18-24 years | 6,620 | 18 | 2,644 | 40 | 1,640 | 25 | 2,849 | 43 | 3,160 | 48 | 74 | 1 |
| 25-34 years | 10,318 | 28 | 4,258 | 41 | 2,473 | 24 | 4,442 | 43 | 4,901 | 48 | 110 | 1 |
| 35-44 years | 6,462 | 18 | 2,556 | 40 | 1,440 | 22 | 2,380 | 37 | 2,824 | 44 | 143 | 2 |
| 45-54 years | 4,603 | 13 | 1,963 | 43 | 890 | 19 | 1,788 | 39 | 1,701 | 37 | 81 | 2 |
| 55-64 years | 3,548 | 10 | 1,320 | 37 | 641 | 18 | 1,316 | 37 | 1,322 | 37 | 107 | 3 |
| 65 years and older | 2,619 | 7 | 972 | 37 | 505 | 19 | 899 | 34 | 815 | 31 | *38 | 1 |
| Male | 25,256 | 69 | 10,250 | 41 | 5,968 | 24 | 10,394 | 41 | 11,938 | 47 | 413 | 2 |
| Female | 11,123 | 31 | 4,274 | 38 | 2,318 | 21 | 4,184 | 38 | 3,819 | 34 | 195 | 2 |
| Race: | | | | | | | | | | | | |
| White | 33,638 | 92 | 13,590 | 40 | 7,706 | 23 | 13,666 | 41 | 14,671 | 44 | 568 | 2 |
| Black | 2,207 | 6 | 725 | 33 | 475 | 22 | 714 | 32 | 882 | 40 | *29 | 1 |
| All others | 553 | 1 | 209 | 39 | 105 | 20 | 199 | 37 | 204 | 38 | ... | ... |

(See footnotes at end of table.)

Table 29. Selected Characteristics of Freshwater Fishermen, by Type of Water Fished: 1980
(Continued)

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

| Characteristic | Total | | Manmade lakes and reservoirs (10 acres or more) | | Manmade ponds and reservoirs (less than 10 acres) | | Natural lakes and ponds | | Rivers and streams | | Other | |
|---------------------------|--------|---------|---|---------|---|---------|-------------------------|---------|--------------------|---------|--------|---------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Annual household income: | | | | | | | | | | | | |
| Under \$5,000 | 1,780 | 5 | 596 | 34 | 456 | 26 | 669 | 38 | 770 | 43 | ... | ... |
| \$5,000-\$9,999 | 3,982 | 11 | 1,427 | 36 | 965 | 24 | 1,404 | 35 | 1,657 | 42 | 65 | 2 |
| \$10,000-\$14,999 | 4,772 | 13 | 1,956 | 41 | 1,142 | 24 | 1,721 | 36 | 2,242 | 47 | 68 | 1 |
| \$15,000-\$19,999 | 4,755 | 13 | 1,994 | 42 | 1,143 | 24 | 1,842 | 39 | 2,153 | 45 | 82 | 2 |
| \$20,000-\$24,999 | 6,115 | 17 | 2,592 | 42 | 1,397 | 23 | 2,499 | 41 | 2,606 | 43 | 94 | 2 |
| \$25,000-\$29,999 | 4,523 | 12 | 1,811 | 40 | 947 | 21 | 1,949 | 43 | 2,024 | 45 | 86 | 2 |
| \$30,000-\$39,999 | 3,867 | 11 | 1,529 | 40 | 821 | 21 | 1,630 | 42 | 1,707 | 44 | 74 | 2 |
| \$40,000-\$49,999 | 1,198 | 3 | 584 | 49 | 274 | 23 | 546 | 46 | 529 | 44 | *28 | 2 |
| \$50,000 or more | 1,253 | 3 | 468 | 37 | 251 | 20 | 572 | 46 | 509 | 41 | *28 | 2 |
| Not reported | 4,134 | 11 | 1,567 | 38 | 890 | 22 | 1,748 | 42 | 1,561 | 38 | 77 | 2 |
| Education: | | | | | | | | | | | | |
| None | 124 | (Z) | 65 | 52 | *29 | 23 | *35 | 28 | 51 | 41 | ... | ... |
| 1-7 years | 1,870 | 5 | 616 | 33 | 379 | 20 | 549 | 29 | 850 | 45 | *23 | 1 |
| 8 years | 1,952 | 5 | 723 | 37 | 462 | 24 | 653 | 33 | 726 | 37 | *25 | 1 |
| 9-11 years | 6,780 | 19 | 2,799 | 41 | 1,702 | 25 | 2,482 | 37 | 2,898 | 43 | 122 | 2 |
| 12 years | 13,908 | 38 | 5,606 | 40 | 3,153 | 23 | 5,542 | 40 | 5,990 | 43 | 235 | 2 |
| 1-3 years college | 6,004 | 17 | 2,494 | 42 | 1,271 | 21 | 2,713 | 45 | 2,776 | 46 | 95 | 2 |
| 4 years college | 2,799 | 8 | 1,121 | 40 | 649 | 23 | 1,297 | 46 | 1,177 | 42 | 61 | 2 |
| 5 years or more | 2,942 | 8 | 1,099 | 37 | 641 | 22 | 1,308 | 44 | 1,289 | 44 | 45 | 2 |
| Most fishing in-State | (NA) | (NA) | 11,141 | (NA) | 4,193 | (NA) | 7,794 | (NA) | 5,608 | (NA) | 0 | (NA) |
| Most fishing out-of-State | (NA) | (NA) | 1,302 | (NA) | 403 | (NA) | 1,977 | (NA) | 1,188 | (NA) | 0 | (NA) |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

NA Not available.

Z Less than .5 percent.

Table 30. Hunters and Days of Participation on Public Land, by Type of Hunting: 1980

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

| Type of game | All public land | | | | | | Federally managed | | | | | |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----|
| | All hunters | | Hunters | | Days | | Hunters | | Days | | | |
| | | | Percent of all hunters | Percent of all days | Percent of all public land | Percent of all public land | | | | | | |
| | Number | Percent | Number | Percent of all hunters | Number | Percent of all days | Number | Percent of all public land | Number | Percent of all public land | | |
| Total hunters | 17,444 | 100 | 7,879 | 45 | 104,375 | 32 | 3,284 | 42 | 30,736 | 29 | | |
| Big game | 11,806 | 68 | 5,545 | 47 | 45,881 | 41 | 2,530 | 46 | 17,400 | 38 | | |
| Small game | 12,362 | 71 | 4,088 | 33 | 39,118 | 26 | 1,281 | 31 | 8,981 | 23 | | |
| Migratory birds | 5,311 | 30 | 1,682 | 32 | 12,321 | 29 | 474 | 28 | 2,589 | 21 | | |
| Other animals | 2,642 | 15 | 558 | 21 | 7,055 | 18 | 171 | 31 | 1,766 | 25 | | |
| | | | | | | | | | | | | |
| State managed | | | | Locally managed | | | | Unclassified | | | | |
| Hunters | | Days | | Hunters | | Days | | Hunters | | Days | | |
| Percent of all public land | | Percent of all public land | | Percent of all public land | | Percent of all public land | | Percent of all public land | | Percent of all public land | | |
| Number | Percent of all public land | Number | Percent of all public land | Number | Percent of all public land | Number | Percent of all public land | Number | Percent of all public land | Number | Percent of all public land | |
| Total hunters | 3,950 | 50 | 34,254 | 33 | 2,210 | 28 | 28,054 | 27 | 1,241 | 16 | 11,331 | 11 |
| Big game | 2,701 | 49 | 14,954 | 33 | 1,178 | 21 | 9,113 | 20 | 725 | 13 | 4,415 | 10 |
| Small game | 2,026 | 50 | 13,286 | 34 | 1,341 | 33 | 12,396 | 32 | 607 | 15 | 4,456 | 11 |
| Migratory birds | 779 | 46 | 4,351 | 35 | 486 | 29 | 3,778 | 31 | 260 | 15 | 1,602 | 13 |
| Other animals | 186 | 33 | 1,663 | 24 | 223 | 40 | 2,767 | 39 | 66 | 12 | 858 | 12 |

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

Table 31. Hunters and Days of Participation on Public Land, by Selected Characteristics: 1980

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

| Characteristic | Hunters | | | | Days | | | |
|----------------------------------|-----------------|--------|------------------------|---------|-----------------|---------|---------------------|-----------------|
| | On public lands | | | | On public lands | | | |
| | Total | Number | Percent of all hunters | Percent | Total | Number | Percent of all days | Days per hunter |
| Total persons | 17,444 | 7,879 | 45 | 45 | 330,168 | 104,375 | 32 | 13 |
| Population density of residence: | | | | | | | | |
| Big cities | 883 | 378 | 2 | 43 | 10,896 | 4,944 | 45 | 13 |
| Small cities | 4,575 | 2,359 | 14 | 52 | 66,874 | 26,697 | 40 | 11 |
| Towns and rural areas | 11,987 | 5,142 | 29 | 43 | 252,397 | 72,734 | 29 | 14 |
| Census geographic division: | | | | | | | | |
| New England | 582 | 223 | 1 | 38 | 13,071 | 3,928 | 30 | 18 |
| Middle Atlantic | 2,098 | 1,064 | 6 | 51 | 36,632 | 12,688 | 35 | 12 |
| East North Central | 3,132 | 1,627 | 9 | 52 | 61,000 | 20,837 | 34 | 13 |
| West North Central | 2,014 | 867 | 5 | 43 | 35,065 | 11,110 | 32 | 13 |
| South Atlantic | 2,543 | 914 | 5 | 36 | 54,366 | 15,844 | 29 | 17 |
| East South Central | 1,659 | 450 | 3 | 27 | 38,248 | 6,744 | 18 | 15 |
| West South Central | 2,549 | 759 | 4 | 30 | 50,293 | 9,174 | 18 | 12 |
| Mountain | 1,292 | 987 | 6 | 76 | 18,009 | 11,319 | 63 | 11 |
| Pacific | 1,575 | 988 | 6 | 63 | 23,484 | 12,731 | 54 | 13 |
| Sex and age group: | | | | | | | | |
| Both sexes, total | 17,444 | 7,879 | 45 | 45 | 330,168 | 104,375 | 32 | 13 |
| 16-17 years | 1,288 | 542 | 3 | 42 | 30,476 | 8,037 | 26 | 15 |
| 18-24 years | 3,870 | 1,708 | 10 | 44 | 83,115 | 23,755 | 29 | 14 |
| 25-34 years | 4,917 | 2,324 | 13 | 47 | 98,566 | 33,077 | 34 | 14 |
| 35-44 years | 3,129 | 1,519 | 9 | 49 | 57,008 | 20,974 | 37 | 14 |
| 45-54 years | 1,945 | 837 | 5 | 43 | 28,223 | 8,952 | 32 | 11 |
| 55-64 years | 1,440 | 611 | 4 | 42 | 19,796 | 5,780 | 29 | 9 |
| 65 years and older | 857 | 339 | 2 | 40 | 12,985 | 3,801 | 29 | 11 |
| Male | 16,000 | 7,299 | 42 | 46 | 314,590 | 99,072 | 31 | 14 |
| Female | 1,444 | 580 | 3 | 40 | 15,578 | 5,303 | 34 | 9 |
| Race: | | | | | | | | |
| White | 16,641 | 7,604 | 44 | 46 | 315,936 | 100,008 | 32 | 13 |
| Black | 611 | 164 | 1 | 27 | 10,690 | 2,549 | 24 | 16 |
| All other races | 193 | 112 | 1 | 58 | 3,542 | 1,819 | 51 | 16 |

(See footnotes at end of table.)

Table 31. Hunters and Days of Participation on Public Land, by Selected Characteristics: 1980
(Continued)

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

| Characteristic | Hunters | | | | Days | | | |
|--------------------------|-----------------|--------|------------------------|---------|-----------------|--------|---------------------|-----------------|
| | On public lands | | | | On public lands | | | |
| | Total | Number | Percent of all hunters | Percent | Total | Number | Percent of all days | Days per hunter |
| Annual household income: | | | | | | | | |
| Under \$5,000 | 697 | 249 | 1 | 36 | 14,432 | 4,317 | 30 | 17 |
| \$5,000-\$9,999 | 1,722 | 684 | 4 | 40 | 35,666 | 10,547 | 30 | 15 |
| \$10,000-\$14,999 | 2,334 | 985 | 6 | 42 | 47,378 | 15,081 | 32 | 15 |
| \$15,000-\$19,999 | 2,510 | 1,184 | 7 | 47 | 51,398 | 15,532 | 30 | 13 |
| \$20,000-\$24,999 | 2,952 | 1,441 | 8 | 49 | 56,208 | 18,585 | 33 | 13 |
| \$25,000-\$29,999 | 2,196 | 1,115 | 6 | 51 | 39,411 | 13,762 | 35 | 12 |
| \$30,000-\$39,999 | 1,650 | 828 | 5 | 50 | 28,754 | 10,409 | 36 | 13 |
| \$40,000-\$49,999 | 658 | 269 | 2 | 41 | 9,780 | 2,896 | 30 | 11 |
| \$50,000 or more | 647 | 267 | 2 | 41 | 11,779 | 2,651 | 23 | 10 |
| Not reported | 2,078 | 857 | 5 | 41 | 35,363 | 10,596 | 30 | 12 |
| Education: | | | | | | | | |
| None | 49 | ... | ... | 21 | 813 | 87 | 11 | 8 |
| 1-7 years | 820 | 307 | 2 | 37 | 16,372 | 4,050 | 25 | 13 |
| 8 years | 927 | 367 | 2 | 40 | 17,752 | 4,484 | 25 | 12 |
| 9-11 years | 3,494 | 1,527 | 9 | 44 | 73,489 | 21,633 | 29 | 14 |
| 12 years | 7,131 | 3,287 | 19 | 46 | 140,887 | 44,951 | 32 | 14 |
| 1-3 years college | 2,811 | 1,371 | 8 | 49 | 48,174 | 18,160 | 38 | 13 |
| 4 years college | 1,143 | 511 | 3 | 45 | 16,497 | 5,549 | 34 | 11 |
| 5 years or more | 1,068 | 499 | 3 | 47 | 16,185 | 5,461 | 34 | 11 |

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

... Sample size too small to report data reliably.

Table 32. Fishermen and Days of Participation in Special Fishing: 1980

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

| Type of fishing | Fishermen | | Days | | |
|-------------------|-----------|------------------|---------|----------|-----------------|
| | Number | Percent of total | Number | In-State | In other States |
| Total freshwater | 36,378 | 100 | 710,572 | 638,343 | 72,228 |
| Spear | 441 | 1 | 2,544 | 2,252 | 293 |
| Net or seine | 1,163 | 3 | 6,517 | 6,039 | 477 |
| Through the ice | 1,992 | 5 | 11,922 | 11,439 | 484 |
| Bow and arrow | 293 | 1 | 1,420 | 1,260 | 160 |
| Gigging for frogs | 974 | 3 | 4,155 | 3,885 | 270 |

Table 33. Hunters and Days of Participation in Special Hunting: 1980

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

| Type of hunting | Bow and arrow | | | | | Primitive firearm | | | | |
|-----------------|---------------|---------|--------|----------|-----------------|-------------------|---------|--------|----------|-----------------|
| | Hunters | | Days | | | Hunters | | Days | | |
| | Number | Percent | Number | In-State | In other States | Number | Percent | Number | In-State | In other States |
| Total hunters | 2,015 | 100 | 17,474 | 16,528 | 946 | 833 | 100 | 5,553 | 5,125 | 428 |
| Big game | 1,889 | 94 | 15,977 | 15,170 | 807 | 666 | 80 | 3,302 | 3,107 | 195 |
| Small game | 236 | 12 | 1,199 | 1,162 | 37 | 217 | 26 | 1,420 | 1,286 | 135 |
| Migratory birds | *25 | 1 | *179 | *79 | *101 | 40 | 5 | 272 | 191 | 82 |
| Other animals | 31 | 2 | 119 | 118 | 1 | 47 | 6 | 558 | 541 | 17 |

| Type of hunting | Pistol or handgun | | | | |
|-----------------|-------------------|---------|--------|----------|-----------------|
| | Hunters | | Days | | |
| | Number | Percent | Number | In-State | In other States |
| Total hunters | 1,315 | 100 | 10,748 | 9,808 | 939 |
| Big game | 402 | 31 | 2,134 | 1,808 | 327 |
| Small game | 827 | 63 | 5,821 | 5,398 | 423 |
| Migratory birds | *25 | 2 | *94 | *58 | *36 |
| Other animals | 212 | 16 | 2,698 | 2,544 | 154 |

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

* Estimate based on a small sample size.

Table 34. Land Owned or Leased Primarily for Fishing or Hunting: 1980

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

| Owned or leased land | Sportsmen (thousands) | Acres | |
|----------------------|--------------------------|-----------------------|---------|
| | | Number (thousands) | Average |
| Fishermen: | | | |
| Owned | 385 | 12,691 | 33 |
| Leased | 184 | 15,047 | 82 |
| Hunters: | | | |
| Owned | 549 | 34,158 | 62 |
| Leased | 633 | 374,622 | 592 |

Table 35. Land Leased or Owned for Fishing or Hunting, by Type of Activity and Cost: 1980

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

| Characteristic | All land | | | Primarily for fishing or hunting | | |
|-----------------------|-----------------------|-----------------|--------------------------|----------------------------------|-----------------|--------------------------|
| | Number (thousands) | Percent | Average per sportsman | Number (thousands) | Percent | Average per sportsman |
| Sportsmen | 5,453 | ¹ 12 | (X) | 1,522 | ² 28 | (X) |
| Hunters, total | 3,284 | 60 | (X) | 1,096 | 72 | (X) |
| Big game | 1,805 | 33 | (X) | 853 | 56 | (X) |
| Small game | 1,804 | 33 | (X) | 511 | 34 | (X) |
| Migratory bird | 587 | 11 | (X) | 301 | 20 | (X) |
| Other animals | 322 | 6 | (X) | 91 | 6 | (X) |
| Fishermen, total | 3,096 | 57 | (X) | 619 | 41 | (X) |
| Freshwater | 192 | 4 | (X) | 65 | 4 | (X) |
| Saltwater | 32 | 1 | (X) | ... | ... | (X) |
| Annual cost (dollars) | 6,031,581 | (X) | 1,106 | 618,485 | (X) | 406 |
| Wetland acres | 108,872 | (X) | 20 | 43,774 | (X) | 29 |

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

... Sample size too small to report data reliably.

X Not applicable.

¹ Percent of total sportsmen.² Percent of total owning or leasing land.

Table 36. Age First Fished or Hunted and Years of Participation: 1980

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

| Age and years of participation | Hunters | | Fishermen | |
|--------------------------------|---------|---------|-----------|---------|
| | Number | Percent | Number | Percent |
| BEGINNING AGE | | | | |
| Total | 17,444 | 100 | 42,059 | 100 |
| Less than 6 years | 396 | 2 | 9,797 | 24 |
| 6-8 years | 2,054 | 12 | 12,487 | 30 |
| 9-11 years | 3,030 | 17 | 7,858 | 19 |
| 12-15 years | 7,556 | 43 | 5,544 | 13 |
| 16-17 years | 2,010 | 12 | 1,249 | 3 |
| 18-24 years | 1,380 | 8 | 2,216 | 5 |
| 25-34 years | 566 | 3 | 1,384 | 3 |
| 35-44 years | 151 | 1 | 573 | 1 |
| 45-54 years | 44 | (Z) | 321 | 1 |
| 55-64 years | *23 | (Z) | 121 | (Z) |
| 65 years or older | ... | ... | 86 | (Z) |
| YEARS OF PARTICIPATION | | | | |
| 0-2 years | 1,009 | 6 | 1,396 | 3 |
| 3-5 years | 1,932 | 11 | 3,264 | 8 |
| 6-8 years | 1,835 | 11 | 2,708 | 6 |
| 9-11 years | 1,714 | 10 | 4,280 | 10 |
| 12-15 years | 2,021 | 12 | 5,426 | 13 |
| 16-17 years | 780 | 4 | 1,672 | 4 |
| 18-24 years | 2,609 | 15 | 7,126 | 17 |
| 25-34 years | 2,484 | 14 | 7,286 | 17 |
| 35-44 years | 1,510 | 9 | 4,168 | 10 |
| 45-54 years | 884 | 5 | 2,589 | 6 |
| 55-64 years | 373 | 2 | 1,317 | 3 |
| 65 years or more | 67 | (Z) | 403 | 1 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 37. Fishermen and Hunters Participating in 1979 but Not in 1980, by Age

(Numbers in thousands)

| Age | Fishermen | | Hunters | |
|-------------------|-----------|---------|---------|---------|
| | Number | Percent | Number | Percent |
| Total | 9,145 | 100 | 4,255 | 100 |
| 6-8 years | 259 | 3 | 47 | 1 |
| 9-11 years | 480 | 5 | 76 | 2 |
| 12-15 years | 649 | 7 | 171 | 4 |
| 16-17 years | 378 | 4 | 174 | 4 |
| 18-24 years | 1,549 | 17 | 859 | 20 |
| 25-34 years | 2,128 | 23 | 1,161 | 27 |
| 35-44 years | 1,301 | 14 | 729 | 17 |
| 45-54 years | 949 | 10 | 464 | 11 |
| 55-64 years | 794 | 9 | 322 | 8 |
| 65 years or older | 657 | 7 | 253 | 6 |

Table 38. Fishermen and Hunters Participating for the First Time in 1980, by Age

(Numbers in thousands)

| Age | All fishermen | Fishing for first time | | All hunters | Hunting for first time | |
|-------------------|---------------|------------------------|---------|-------------|------------------------|---------|
| | | Number | Percent | | Number | Percent |
| 6-8 years | 2,663 | 644 | 24 | 139 | 62 | 45 |
| 9-11 years | 3,945 | 530 | 13 | 445 | 149 | 33 |
| 12-15 years | 5,178 | 455 | 9 | 1,378 | 416 | 30 |
| 16-17 years | 2,529 | 158 | 6 | 1,075 | 193 | 18 |
| 18-24 years | 7,667 | 536 | 7 | 3,665 | 333 | 9 |
| 25-34 years | 11,581 | 775 | 7 | 4,765 | 251 | 5 |
| 35-44 years | 7,760 | 365 | 5 | 3,103 | 104 | 3 |
| 45-54 years | 5,437 | 186 | 3 | 1,964 | 55 | 3 |
| 55-64 years | 4,635 | 146 | 3 | 1,406 | 29 | 2 |
| 65 years or older | 3,068 | 89 | 3 | 819 | *17 | 2 |

* Estimate based on a small sample size.

Table 39. One-Way Distance Traveled by Fishermen and Hunters: 1980

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

| Average one-way distance traveled | Total | | Fishermen | | Hunters | |
|-----------------------------------|------------------------|---------|-----------|---------|-----------|---------|
| | Number | Percent | Number | Percent | Number | Percent |
| | Sportsmen | | | | | |
| 0-5 miles | 8,571 | 20 | 7,997 | 19 | 3,765 | 22 |
| 6-24 miles | 12,928 | 30 | 11,137 | 26 | 4,823 | 28 |
| 25-49 miles | 8,041 | 19 | 7,149 | 17 | 2,894 | 17 |
| 50-99 miles | 6,798 | 16 | 5,898 | 14 | 2,562 | 15 |
| 100-249 miles | 4,732 | 11 | 4,067 | 10 | 2,147 | 12 |
| 250-499 miles | 1,203 | 3 | 1,076 | 3 | 490 | 3 |
| 500-999 miles | 382 | 1 | 353 | 1 | 149 | 1 |
| 1,000 miles and over | 169 | (Z) | 169 | (Z) | 55 | (Z) |
| | Expenditures (dollars) | | | | | |
| 0-5 miles | 2,175,097 | 9 | 809,812 | 8 | 503,415 | 9 |
| 6-24 miles | 5,830,850 | 23 | 2,219,738 | 22 | 1,381,946 | 25 |
| 25-49 miles | 5,304,737 | 21 | 2,277,055 | 22 | 1,083,054 | 20 |
| 50-99 miles | 5,872,272 | 23 | 2,259,086 | 22 | 1,150,443 | 21 |
| 100-249 miles | 4,901,128 | 19 | 1,857,963 | 18 | 962,074 | 17 |
| 250-499 miles | 968,770 | 4 | 437,681 | 4 | 271,938 | 5 |
| 500-999 miles | 307,501 | 1 | 182,641 | 2 | 115,927 | 2 |
| 1,000 miles and over | 137,639 | 1 | 88,945 | 1 | 57,568 | 1 |
| | Days | | | | | |
| 0-5 miles | 229,160 | 20 | 182,060 | 22 | 79,908 | 25 |
| 6-24 miles | 414,376 | 36 | 269,005 | 33 | 116,540 | 36 |
| 25-49 miles | 233,371 | 20 | 164,262 | 20 | 57,399 | 18 |
| 50-99 miles | 162,911 | 14 | 121,278 | 15 | 41,191 | 13 |
| 100-249 miles | 86,404 | 8 | 66,610 | 8 | 24,446 | 7 |
| 250-499 miles | 16,110 | 1 | 13,523 | 2 | 4,656 | 1 |
| 500-999 miles | 5,062 | (Z) | 4,113 | 1 | 1,882 | 1 |
| 1,000 miles and over | 2,471 | (Z) | 2,246 | (Z) | 745 | (Z) |

Z Less than .5 percent.

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

Table 40. In-State and Out-of-State Fishing: 1980

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

| Fishing in-State and out-of-State | All fishing | | | | Great Lakes | | | |
|---|------------------|---------|---------|---------|-------------|---------|---------|---------|
| | Fishermen | | Days | | Fishermen | | Days | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 42,059 | 100 | 857,566 | 100 | 3,016 | 100 | 40,532 | 100 |
| 1 State (not current State of residence) | 3,130 | 7 | 28,941 | 3 | 384 | 13 | 2,335 | 6 |
| 2 States (not current State of residence) | 321 | 1 | 4,552 | 1 | *31 | 1 | *355 | 1 |
| 3 States (not current State of residence) | *38 | (Z) | *561 | (Z) | ... | ... | ... | ... |
| 4 or more States (not current State of residence) | ... | ... | ... | ... | ... | ... | ... | ... |
| Current State of residence only | 31,668 | 75 | 601,638 | 70 | 2,508 | 83 | 36,179 | 39 |
| Current State of residence and 1 other State | 5,408 | 13 | 163,464 | 19 | 81 | 3 | 1,521 | 4 |
| Current State of residence and 2 other States | 910 | 2 | 37,968 | 4 | ... | ... | ... | ... |
| Current State of residence and 3 other States | 207 | (Z) | 9,474 | 1 | ... | ... | ... | ... |
| Current State of residence and 4 or more other States | *40 | (Z) | *2,046 | (Z) | ... | ... | ... | ... |
| Foreign Countries, total | 1,437 | 3 | 8,627 | 1 | ... | ... | ... | ... |
| Canada | 923 | 64 | 5,733 | 66 | ... | ... | ... | ... |
| Mexico | 337 | 23 | 1,757 | 20 | ... | ... | ... | ... |
| Other | 199 | 14 | 1,137 | 13 | ... | ... | ... | ... |
| Fishing in-State and out-of-State | Other freshwater | | | | Saltwater | | | |
| | Fishermen | | Days | | Fishermen | | Days | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 35,308 | 100 | 674,378 | 100 | 12,344 | 100 | 147,006 | 100 |
| 1 State (not current State of residence) | 2,653 | 8 | 24,555 | 4 | 2,576 | 21 | 14,017 | 10 |
| 2 States (not current State of residence) | 236 | 1 | 3,815 | 1 | 125 | 1 | 1,502 | 1 |
| 3 States (not current State of residence) | ... | ... | ... | ... | *24 | (Z) | *290 | (Z) |
| 4 or more States (not current State of residence) | ... | ... | ... | ... | ... | ... | ... | ... |
| Current State of residence only | 27,909 | 79 | 508,366 | 75 | 8,406 | 68 | 107,561 | 73 |
| Current State of residence and 1 other State | 3,584 | 10 | 108,452 | 16 | 729 | 6 | 16,909 | 12 |
| Current State of residence and 2 other States | 479 | 1 | 17,119 | 3 | 100 | 1 | 2,382 | 2 |
| Current State of residence and 3 other States | 113 | (Z) | 4,948 | 1 | ... | ... | ... | ... |
| Current State of residence and 4 or more other States | ... | ... | ... | ... | ... | ... | ... | ... |
| Foreign countries, total | 967 | 3 | 5,947 | 1 | 506 | 4 | 2,673 | 2 |
| Canada | 888 | 92 | 5,567 | 94 | *39 | 8 | *159 | 6 |
| Mexico | 46 | 5 | 243 | 4 | 302 | 60 | 1,515 | 57 |
| Other | *34 | 4 | *137 | 2 | 169 | 33 | 999 | 37 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 41. In-State and Out-of-State Hunting: 1980

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

| Hunting in-State and out-of-State | All hunting | | | | Big Game | | | | Small game | | | |
|---|-------------|---------|---------|---------|----------|---------|---------|---------|------------|---------|---------|---------|
| | Hunters | | Days | | Hunters | | Days | | Hunters | | Days | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 17,444 | 100 | 330,168 | 100 | 11,806 | 100 | 112,788 | 100 | 12,362 | 100 | 151,246 | 100 |
| 1 State (not current State of residence) | 778 | 4 | 8,252 | 2 | 619 | 5 | 4,191 | 4 | 585 | 5 | 5,220 | 3 |
| 2 States (not current State of residence) | 58 | (Z) | 1,293 | (Z) | *25 | (Z) | *271 | (Z) | *18 | (Z) | *373 | (Z) |
| 3 States (not current State of residence) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 4 States (not current State of residence) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Current State of residence only | 15,311 | 88 | 278,996 | 85 | 10,557 | 89 | 96,773 | 86 | 11,200 | 91 | 135,215 | 89 |
| Current State of residence and 1 other State | 1,149 | 7 | 35,865 | 11 | 535 | 5 | 10,595 | 9 | 493 | 4 | 900 | 6 |
| Current State of residence and 2 other States | 88 | 1 | 3,586 | 1 | *23 | (Z) | *515 | (Z) | 31 | (Z) | 952 | 1 |
| Current State of residence and 3 other States | *18 | (Z) | *701 | (Z) | ... | ... | ... | ... | ... | ... | ... | ... |
| Current State of residence and 4 or more other States | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Foreign countries, total | 74 | (Z) | 651 | (Z) | 34 | (Z) | 181 | (Z) | 39 | (Z) | 312 | (Z) |
| Canada | 44 | 59 | 325 | 50 | *21 | 61 | *133 | 73 | *18 | 45 | *97 | 31 |
| Mexico | *27 | 37 | *295 | 45 | ... | ... | ... | ... | *19 | 47 | *192 | 62 |
| Other | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

| Hunting in-State and out-of-State | Migratory birds | | | | Other animals | | | |
|---|-----------------|---------|--------|---------|---------------|---------|--------|---------|
| | Hunters | | Days | | Hunters | | Days | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 5,311 | 100 | 42,910 | 100 | 2,642 | 100 | 38,431 | 100 |
| 1 State (not current State of residence) | 261 | 5 | 1,499 | 3 | 129 | 5 | 1,391 | 4 |
| 2 States (not current State of residence) | *16 | (Z) | *339 | 1 | ... | ... | ... | ... |
| 3 States (not current State of residence) | ... | ... | ... | ... | ... | ... | ... | ... |
| 4 or more States (not current State of residence) | ... | ... | ... | ... | ... | ... | ... | ... |
| Current State of residence only | 4,818 | 91 | 37,762 | 88 | 2,414 | 91 | 34,219 | 89 |
| Current State of residence and 1 other State | 160 | 3 | 2,765 | 6 | 60 | 2 | 1,820 | 5 |
| Current State of residence and 2 other States | *15 | (Z) | *301 | 1 | ... | ... | ... | ... |
| Current State of residence and 3 other States | ... | ... | ... | ... | ... | ... | ... | ... |
| Current State of residence and 4 or more other States | ... | ... | ... | ... | ... | ... | ... | ... |
| Foreign countries, total | 33 | 1 | 209 | (Z) | ... | ... | ... | ... |
| Canada | *20 | 61 | *107 | 51 | ... | ... | ... | ... |
| Mexico | *11 | 34 | *82 | 39 | ... | ... | ... | ... |
| Other | ... | ... | ... | ... | ... | ... | ... | ... |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 42. Membership in Sportsmen's Organizations and Magazine Readership: 1980

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

| Activity | All sportsmen | | Hunters | | Fishermen | |
|---|---------------|--------------------------|---------|------------------------|-----------|--------------------------|
| | Number | Percent of all sportsmen | Number | Percent of all hunters | Number | Percent of all fishermen |
| Membership in— | | | | | | |
| Local birding clubs | 220 | (Z) | 84 | (Z) | 205 | (Z) |
| Local rod and gun clubs | 1,277 | 3 | 966 | 6 | 1,109 | 3 |
| Other wildlife-related organizations | 901 | 2 | 509 | 3 | 820 | 2 |
| Belong to national wildlife-related or conservation organizations | 7,108 | 15 | 3,515 | 20 | 6,377 | 15 |
| Read magazines or periodicals devoted to fishing, hunting, or wildlife: | | | | | | |
| Frequently | 14,939 | 32 | 8,008 | 46 | 13,419 | 32 |
| Sometimes | 7,792 | 17 | 3,023 | 17 | 7,072 | 17 |
| Rarely | 6,002 | 13 | 1,892 | 11 | 5,394 | 13 |

Z Less than .5 percent.

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

Table 43. Fishermen and Hunters, by State of Residence: 1980

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

| State | Fished or hunted | | | Fished only | | Hunted only | | Fished and hunted | |
|----------------------|------------------|--------|-----------------------|-------------|-----------------------|-------------|-----------------------|-------------------|-----------------------|
| | Population | Number | Percent of population | Number | Percent of population | Number | Percent of population | Number | Percent of population |
| Total, all States | 169,942 | 46,713 | 27 | 29,268 | 17 | 4,654 | 3 | 12,791 | 8 |
| Alabama | 2,859 | 1,045 | 37 | 588 | 21 | 119 | 4 | 338 | 12 |
| Alaska | 274 | 148 | 54 | 87 | 32 | 9 | 3 | 52 | 19 |
| Arizona | 2,069 | 450 | 23 | 290 | 14 | 67 | 3 | 123 | 6 |
| Arkansas | 1,690 | 667 | 39 | 289 | 17 | 88 | 5 | 291 | 17 |
| California | 18,145 | 4,026 | 22 | 3,205 | 18 | 167 | 1 | 654 | 4 |
| Colorado | 2,174 | 758 | 35 | 495 | 23 | 54 | 2 | 210 | 10 |
| Connecticut | 2,362 | 453 | 19 | 359 | 15 | ... | ... | 84 | 4 |
| Delaware | 441 | 111 | 25 | 80 | 18 | 6 | 1 | *26 | 6 |
| District of Columbia | 495 | 49 | 10 | *42 | 9 | ... | ... | ... | ... |
| Florida | 7,856 | 2,225 | 28 | 1,799 | 23 | 97 | 1 | 329 | 4 |
| Georgia | 4,003 | 1,334 | 33 | 858 | 21 | 84 | 2 | 392 | 10 |
| Hawaii | 707 | 167 | 24 | 146 | 21 | 4 | 1 | *16 | 2 |
| Idaho | 672 | 333 | 50 | 148 | 22 | 43 | 6 | 142 | 21 |
| Illinois | 8,471 | 1,930 | 23 | 1,476 | 17 | 104 | 1 | 350 | 4 |
| Indiana | 4,035 | 1,218 | 30 | 844 | 21 | 98 | 2 | 276 | 7 |
| Iowa | 2,147 | 759 | 35 | 419 | 20 | 85 | 4 | 255 | 12 |
| Kansas | 1,764 | 637 | 36 | 394 | 22 | 70 | 4 | 174 | 10 |
| Kentucky | 2,678 | 842 | 31 | 521 | 19 | 55 | 2 | 265 | 10 |
| Louisiana | 3,051 | 1,025 | 34 | 540 | 18 | 126 | 4 | 359 | 12 |
| Maine | 830 | 283 | 34 | 109 | 13 | 47 | 6 | 127 | 15 |
| Maryland | 3,159 | 665 | 21 | 467 | 15 | 67 | 2 | 130 | 4 |
| Massachusetts | 4,377 | 733 | 17 | 603 | 14 | 33 | 1 | 97 | 2 |
| Michigan | 6,786 | 2,109 | 31 | 1,113 | 16 | 286 | 4 | 710 | 10 |
| Minnesota | 3,030 | 1,361 | 45 | 806 | 27 | 122 | 4 | 433 | 14 |
| Mississippi | 1,792 | 667 | 37 | 282 | 16 | 95 | 5 | 290 | 16 |
| Missouri | 3,700 | 1,181 | 32 | 698 | 19 | 115 | 3 | 368 | 10 |
| Montana | 573 | 254 | 44 | 100 | 17 | 49 | 9 | 105 | 18 |
| Nebraska | 1,160 | 381 | 33 | 206 | 18 | 55 | 5 | 121 | 10 |
| Nevada | 635 | 168 | 26 | 104 | 16 | 26 | 4 | 39 | 6 |
| New Hampshire | 694 | 159 | 23 | 86 | 12 | 21 | 3 | 52 | 7 |
| New Jersey | 5,576 | 914 | 16 | 729 | 13 | 72 | 1 | 113 | 2 |
| New Mexico | 942 | 259 | 28 | 147 | 16 | 42 | 4 | 71 | 8 |
| New York | 13,248 | 2,272 | 17 | 1,489 | 11 | 334 | 3 | 449 | 3 |
| North Carolina | 4,400 | 1,260 | 29 | 813 | 18 | 80 | 2 | 367 | 8 |
| North Dakota | 473 | 200 | 42 | 107 | 23 | 29 | 6 | 64 | 14 |
| Ohio | 7,998 | 2,116 | 26 | 1,446 | 18 | 206 | 3 | 465 | 6 |
| Oklahoma | 2,272 | 851 | 37 | 518 | 23 | 56 | 2 | 277 | 12 |
| Oregon | 2,021 | 763 | 38 | 438 | 22 | 76 | 4 | 250 | 12 |
| Pennsylvania | 9,043 | 1,858 | 21 | 728 | 8 | 402 | 4 | 727 | 8 |
| Rhode Island | 715 | 127 | 18 | 109 | 15 | ... | ... | *15 | 2 |

(See footnotes at end of table.)

Table 43. Fishermen and Hunters, by State of Residence: 1980 (Continued)

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

| State | 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 |
| South Carolina | 2,275 | 667 | 29 | 461 | 20 | 37 | 2 | 169 | 7 |
| South Dakota | 500 | 198 | 40 | 75 | 15 | 41 | 8 | 82 | 16 |
| Tennessee | 3,464 | 1,098 | 32 | 601 | 17 | 117 | 3 | 380 | 11 |
| Texas | 10,536 | 3,256 | 31 | 1,905 | 18 | 370 | 4 | 982 | 9 |
| Utah | 998 | 374 | 37 | 167 | 17 | 94 | 9 | 113 | 11 |
| Vermont | 384 | 145 | 38 | 52 | 14 | 27 | 7 | 66 | 17 |
| Virginia | 3,982 | 1,136 | 29 | 691 | 17 | 131 | 3 | 314 | 8 |
| Washington | 3,180 | 1,074 | 34 | 726 | 23 | 91 | 3 | 257 | 8 |
| West Virginia | 1,454 | 454 | 31 | 147 | 10 | 93 | 6 | 214 | 15 |
| Wisconsin | 3,501 | 1,339 | 38 | 702 | 20 | 113 | 3 | 524 | 15 |
| Wyoming | 352 | 181 | 51 | 65 | 19 | 35 | 10 | 80 | 23 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 44. Fishermen and Hunters 6-15 Years Old, by State of Residence: 1980

(Numbers in thousands)

| State | Population 6-15 years old | 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 |
| Total, all States | 35,313 | 12,141 | 34 | 10,179 | 29 | 354 | 1 | 1,608 | 5 |
| Alabama | 646 | 227 | 35 | 158 | 25 | *13 | 2 | 55 | 9 |
| Alaska | 67 | 33 | 48 | 26 | 39 | *1 | 1 | 5 | 8 |
| Arizona | 441 | 126 | 29 | 100 | 23 | *12 | 3 | *14 | 3 |
| Arkansas | 367 | 166 | 45 | 109 | 30 | 8 | 2 | 50 | 14 |
| California | 3,501 | 990 | 28 | 918 | 26 | *19 | 1 | 53 | 2 |
| Colorado | 443 | 177 | 40 | 154 | 35 | 3 | 1 | 21 | 5 |
| Connecticut | 473 | 159 | 34 | 154 | 33 | 2 | (Z) | 4 | 1 |
| Delaware | 92 | 28 | 30 | 25 | 27 | *1 | 1 | 3 | 3 |
| District of Columbia | 78 | 7 | 9 | 7 | 9 | ... | ... | ... | ... |
| Florida | 1,361 | 469 | 34 | 396 | 29 | 9 | 1 | 63 | 5 |
| Georgia | 929 | 330 | 35 | 273 | 29 | 8 | 1 | 49 | 5 |
| Hawaii | 148 | 35 | 24 | *33 | 23 | *1 | (Z) | *1 | 1 |
| Idaho | 160 | 92 | 57 | 69 | 44 | 3 | 2 | *19 | 12 |
| Illinois | 1,769 | 598 | 34 | 564 | 32 | 3 | (Z) | 31 | 2 |
| Indiana | 888 | 338 | 38 | 293 | 33 | 4 | (Z) | 41 | 5 |
| Iowa | 441 | 224 | 51 | 155 | 35 | 15 | 3 | 54 | 12 |
| Kansas | 344 | 169 | 49 | 143 | 42 | 4 | 1 | 23 | 7 |
| Kentucky | 593 | 279 | 47 | 232 | 39 | 5 | 1 | 42 | 7 |
| Louisiana | 730 | 227 | 31 | 144 | 20 | 21 | 3 | 62 | 8 |
| Maine | 179 | 77 | 43 | 56 | 31 | 3 | 2 | *18 | 10 |

(See footnotes at end of table.)

Table 44. Fishermen and Hunters 6-15 Years Old, by State of Residence: 1980
(Continued)

(Numbers in thousands)

| State | Population 6-15 years old | 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 |
| Maryland | 662 | 189 | 29 | 171 | 26 | 3 | (Z) | *16 | 2 |
| Massachusetts | 850 | 250 | 29 | 245 | 29 | *1 | (Z) | 4 | 1 |
| Michigan | 1,536 | 514 | 33 | 442 | 29 | 18 | 1 | 54 | 3 |
| Minnesota | 638 | 380 | 60 | 323 | 51 | 7 | 1 | 50 | 8 |
| Mississippi | 447 | 154 | 35 | 102 | 23 | 6 | 1 | 47 | 10 |
| Missouri | 744 | 307 | 41 | 249 | 33 | 6 | 1 | 52 | 7 |
| Montana | 121 | 61 | 50 | 43 | 35 | 6 | 5 | *12 | 10 |
| Nebraska | 237 | 89 | 37 | 61 | 26 | 7 | 3 | *20 | 9 |
| Nevada | 123 | 36 | 29 | 29 | 24 | 11 | 1 | 6 | 5 |
| New Hampshire | 147 | 55 | 37 | 49 | 33 | *1 | 1 | 5 | 3 |
| New Jersey | 1,130 | 292 | 26 | 271 | 24 | 7 | 1 | *14 | 1 |
| New Mexico | 226 | 71 | 31 | 60 | 26 | 4 | 2 | 7 | 3 |
| New York | 2,610 | 657 | 25 | 610 | 23 | 11 | (Z) | 37 | 1 |
| North Carolina | 942 | 278 | 30 | 228 | 24 | 7 | 1 | 43 | 5 |
| North Dakota | 99 | 51 | 51 | 42 | 42 | 2 | 2 | 7 | 7 |
| Ohio | 1,707 | 649 | 38 | 591 | 35 | 10 | 1 | 48 | 3 |
| Oklahoma | 463 | 215 | 46 | 172 | 37 | 2 | (Z) | 41 | 9 |
| Oregon | 396 | 191 | 48 | 158 | 40 | 6 | 1 | 28 | 7 |
| Pennsylvania | 1,755 | 569 | 32 | 459 | 26 | 30 | 2 | 80 | 5 |
| Rhode Island | 137 | 43 | 31 | *40 | 29 | *1 | (Z) | 2 | 2 |
| South Carolina | 527 | 137 | 26 | 105 | 20 | 2 | (Z) | 30 | 6 |
| South Dakota | 106 | 52 | 49 | *39 | 36 | 2 | 2 | 11 | 11 |
| Tennessee | 730 | 236 | 32 | 177 | 24 | 8 | 1 | 51 | 7 |
| Texas | 2,385 | 734 | 31 | 565 | 24 | 27 | 1 | 143 | 6 |
| Utah | 267 | 109 | 41 | 82 | 31 | 9 | 3 | 17 | 7 |
| Vermont | 82 | 42 | 52 | *31 | 38 | 3 | 3 | ... | ... |
| Virginia | 829 | 273 | 33 | 219 | 26 | 8 | 1 | 46 | 6 |
| Washington | 634 | 251 | 40 | 205 | 32 | 7 | 1 | 39 | 6 |
| West Virginia | 310 | 115 | 37 | 85 | 27 | 9 | 3 | 22 | 7 |
| Wisconsin | 748 | 346 | 46 | 286 | 38 | *12 | 2 | 49 | 7 |
| Wyoming | 77 | 40 | 52 | *31 | 40 | *1 | 1 | 8 | 11 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 45. Fishermen and Days of Participation, by Type of Fishing and State of Residence: 1980

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

| State | Fishermen | | | | | | |
|----------------------|-----------|----------------|---------|-----------------|---------|--------------------------|---------|
| | Total | Saltwater only | | Freshwater only | | Freshwater and saltwater | |
| | | Number | Percent | Number | Percent | Number | Percent |
| Total, all States | 42,059 | 5,681 | 14 | 29,715 | 71 | 6,664 | 16 |
| Alabama | 925 | *34 | 4 | 763 | 82 | 128 | 14 |
| Alaska | 139 | 18 | 13 | 79 | 57 | 42 | 30 |
| Arizona | 413 | ... | ... | 361 | 87 | 43 | 10 |
| Arkansas | 580 | ... | ... | 567 | 98 | *12 | 2 |
| California | 3,859 | 758 | 20 | 1,924 | 50 | 1,178 | 31 |
| Colorado | 704 | ... | ... | 655 | 93 | 44 | 6 |
| Connecticut | 444 | 133 | 30 | 169 | 38 | 142 | 32 |
| Delaware | 106 | 67 | 63 | 17 | 16 | 22 | 21 |
| District of Columbia | 47 | *23 | 48 | ... | ... | ... | ... |
| Florida | 2,127 | 775 | 36 | 638 | 30 | 714 | 34 |
| Georgia | 1,250 | 61 | 5 | 968 | 77 | 221 | 18 |
| Hawaii | 162 | 138 | 85 | *8 | 5 | 16 | 10 |
| Idaho | 291 | ... | ... | 270 | 93 | *17 | 6 |
| Illinois | 1,826 | *38 | 2 | 1,685 | 92 | 103 | 6 |
| Indiana | 1,119 | ... | ... | 1,053 | 94 | 53 | 5 |
| Iowa | 674 | ... | ... | 663 | 98 | ... | ... |
| Kansas | 568 | ... | ... | 547 | 96 | *17 | 3 |
| Kentucky | 786 | ... | ... | 721 | 92 | 55 | 7 |
| Louisiana | 899 | 112 | 12 | 624 | 69 | 163 | 18 |
| Maine | 236 | 13 | 6 | 172 | 73 | 51 | 22 |
| Maryland | 598 | 283 | 47 | 173 | 29 | 142 | 24 |
| Massachusetts | 700 | 272 | 39 | 208 | 30 | 219 | 31 |
| Michigan | 1,823 | *33 | 2 | 1,681 | 92 | 109 | 6 |
| Minnesota | 1,239 | ... | ... | 1,218 | 98 | *21 | 2 |
| Mississippi | 572 | *20 | 4 | 467 | 82 | 84 | 15 |
| Missouri | 1,066 | ... | ... | 1,042 | 98 | *23 | 2 |
| Montana | 205 | ... | ... | 197 | 96 | *7 | 4 |
| Nebraska | 327 | ... | ... | 319 | 98 | ... | ... |
| Nevada | 143 | ... | ... | 125 | 88 | 16 | 11 |
| New Hampshire | 138 | 14 | 10 | 83 | 61 | 40 | 29 |
| New Jersey | 842 | 454 | 54 | 173 | 21 | 215 | 26 |
| New Mexico | 218 | ... | ... | 198 | 91 | 17 | 8 |
| New York | 1,938 | 625 | 32 | 996 | 51 | 317 | 16 |
| North Carolina | 1,180 | 206 | 17 | 622 | 53 | 351 | 30 |
| North Dakota | 171 | ... | ... | 168 | 98 | ... | ... |
| Ohio | 1,911 | ... | ... | 1,744 | 91 | 146 | 8 |
| Oklahoma | 795 | ... | ... | 771 | 97 | *17 | 2 |
| Oregon | 688 | 49 | 7 | 431 | 63 | 207 | 30 |
| Pennsylvania | 1,456 | 217 | 15 | 1,019 | 70 | 219 | 15 |
| Rhode Island | 124 | 57 | 46 | 24 | 20 | 42 | 34 |

(See footnotes at end of table.)

Table 45. Fishermen and Days of Participation, by Type of Fishing and State of Residence: 1980 (Continued)

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

| State | Fishermen | | | | | | |
|----------------|-----------|----------------|---------|-----------------|---------|--------------------------|---------|
| | Total | Saltwater only | | Freshwater only | | Freshwater and saltwater | |
| | | Number | Percent | Number | Percent | Number | Percent |
| South Carolina | 630 | 114 | 18 | 329 | 52 | 187 | 30 |
| South Dakota | 157 | ... | ... | 152 | 97 | 4 | 3 |
| Tennessee | 981 | ... | ... | 904 | 92 | 63 | 6 |
| Texas | 2,886 | 474 | 16 | 1,898 | 66 | 514 | 18 |
| Utah | 280 | ... | ... | 268 | 96 | 10 | 4 |
| Vermont | 119 | ... | ... | 104 | 88 | 13 | 11 |
| Virginia | 1,006 | 296 | 29 | 447 | 44 | 262 | 26 |
| Washington | 982 | 277 | 28 | 420 | 43 | 286 | 29 |
| West Virginia | 361 | ... | ... | 323 | 89 | 31 | 8 |
| Wisconsin | 1,226 | ... | ... | 1,175 | 96 | 42 | 3 |
| Wyoming | 145 | ... | ... | 138 | 95 | 7 | 4 |

| State | Days of participation | | | | | | |
|----------------------|-----------------------|------------|---------|---------|-----------|---------|---------|
| | Total | Freshwater | | | Saltwater | | |
| | | Number | Percent | Average | Number | Percent | Average |
| Total, all States | 857,566 | 710,572 | 83 | 20 | 147,007 | 17 | 12 |
| Alabama | 19,972 | 19,018 | 95 | 21 | 954 | 5 | 6 |
| Alaska | 2,754 | 2,172 | 79 | 18 | 585 | 21 | 10 |
| Arizona | 6,344 | 6,042 | 95 | 15 | 303 | 5 | 6 |
| Arkansas | 13,881 | 13,840 | 100 | 24 | *41 | (Z) | *3 |
| California | 66,142 | 47,712 | 72 | 15 | 18,432 | 28 | 10 |
| Colorado | 10,257 | 10,063 | 98 | 14 | 195 | 2 | 4 |
| Connecticut | 9,889 | 6,123 | 62 | 20 | 3,773 | 38 | 14 |
| Delaware | 2,013 | *848 | 42 | 22 | 1,157 | 57 | 13 |
| District of Columbia | 864 | ... | ... | ... | *292 | 34 | *9 |
| Florida | 61,230 | 33,233 | 54 | 25 | 27,938 | 46 | 19 |
| Georgia | 25,643 | 23,803 | 93 | 20 | 1,840 | 7 | 7 |
| Hawaii | 3,261 | 396 | 12 | 17 | 2,865 | 88 | 19 |
| Idaho | 4,962 | 4,857 | 98 | 17 | 109 | 2 | 5 |
| Illinois | 36,868 | 36,235 | 98 | 20 | 633 | 2 | 4 |
| Indiana | 24,467 | 24,146 | 99 | 22 | 321 | 1 | 5 |
| Iowa | 13,220 | 13,061 | 99 | 19 | ... | ... | ... |
| Kansas | 12,329 | 12,220 | 99 | 22 | *106 | 1 | *5 |
| Kentucky | 17,256 | 16,682 | 97 | 21 | 573 | 3 | 9 |
| Louisiana | 19,271 | 16,264 | 84 | 21 | 3,082 | 16 | 11 |
| Maine | 4,465 | 3,933 | 88 | 18 | 551 | 12 | 9 |

(See footnotes at end of table.)

Table 45. Fishermen and Days of Participation, by Type of Fishing and State of Residence: 1980 (Continued)

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

| State | Days of participation | | | | | | |
|----------------|-----------------------|------------|---------|---------|-----------|---------|---------|
| | Total | Freshwater | | | Saltwater | | |
| | | Number | Percent | Average | Number | Percent | Average |
| Maryland | 8,381 | 3,752 | 45 | 12 | 4,639 | 55 | 11 |
| Massachusetts | 13,770 | 8,381 | 61 | 20 | 5,260 | 38 | 11 |
| Michigan | 41,678 | 40,919 | 98 | 23 | 706 | 2 | 5 |
| Minnesota | 19,548 | 19,506 | 100 | 16 | *42 | (Z) | *2 |
| Mississippi | 14,178 | 12,865 | 91 | 23 | 1,283 | 9 | 12 |
| Missouri | 19,895 | 19,810 | 100 | 19 | *85 | (Z) | *4 |
| Montana | 3,457 | 3,422 | 99 | 17 | *36 | 1 | *4 |
| Nebraska | 5,948 | 5,933 | 100 | 18 | ... | ... | ... |
| Nevada | 2,197 | 2,141 | 97 | 15 | 57 | 3 | 3 |
| New Hampshire | 2,943 | 2,541 | 86 | 21 | 402 | 14 | 7 |
| New Jersey | 17,390 | 7,366 | 42 | 19 | 10,017 | 58 | 15 |
| New Mexico | 3,531 | 3,462 | 98 | 16 | 69 | 2 | 3 |
| New York | 38,067 | 23,316 | 61 | 18 | 14,822 | 39 | 16 |
| North Carolina | 23,343 | 18,888 | 81 | 19 | 4,461 | 19 | 8 |
| North Dakota | 2,622 | 2,612 | 100 | 15 | ... | ... | ... |
| Ohio | 44,207 | 43,538 | 98 | 23 | 673 | 2 | 4 |
| Oklahoma | 18,013 | 17,903 | 99 | 23 | *141 | 1 | *6 |
| Oregon | 13,941 | 12,357 | 89 | 19 | 1,586 | 11 | 6 |
| Pennsylvania | 31,016 | 27,063 | 87 | 22 | 3,936 | 13 | 9 |
| Rhode Island | 3,174 | 1,513 | 48 | 23 | 1,661 | 52 | 17 |
| South Carolina | 15,770 | 11,991 | 76 | 23 | 3,923 | 25 | 13 |
| South Dakota | 2,648 | 2,639 | 100 | 17 | 9 | (Z) | 2 |
| Tennessee | 20,054 | 19,691 | 98 | 20 | 363 | 2 | 5 |
| Texas | 57,744 | 40,301 | 70 | 17 | 17,486 | 30 | 18 |
| Utah | 3,699 | 3,658 | 99 | 13 | 42 | 1 | 3 |
| Vermont | 2,493 | 2,433 | 98 | 21 | 60 | 2 | 4 |
| Virginia | 17,599 | 12,149 | 69 | 17 | 5,348 | 30 | 10 |
| Washington | 19,813 | 14,290 | 72 | 20 | 5,523 | 28 | 10 |
| West Virginia | 8,102 | 7,919 | 98 | 22 | 183 | 2 | 5 |
| Wisconsin | 24,560 | 24,340 | 99 | 20 | 221 | 1 | 4 |
| Wyoming | 2,694 | 2,654 | 99 | 18 | 40 | 1 | 6 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably

Z Less than .5 percent.

Table 46. Hunters and Days of Participation, by Type of Hunting and State of Residence: 1980

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

| State | All hunting | | | | | Big game | | | | |
|----------------------|-------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| | Hunters | | Days | | | Hunters | | Days | | |
| | Number | Percent | Number | Percent | Average | Number | Percent | Number | Percent | Average |
| Total, all States | 17,444 | 100 | 330,168 | 100 | 19 | 11,806 | 68 | 112,788 | 34 | 10 |
| Alabama | 457 | 3 | 10,051 | 3 | 22 | 317 | 69 | 4,229 | 42 | 13 |
| Alaska | 60 | (2) | 922 | (2) | 15 | 50 | 83 | 443 | 48 | 9 |
| Arizona | 190 | 1 | 3,544 | 1 | 19 | 100 | 52 | 689 | 19 | 7 |
| Arkansas | 378 | 2 | 8,626 | 3 | 23 | 292 | 77 | 2,698 | 31 | 9 |
| California | 821 | 5 | 11,961 | 4 | 15 | 376 | 46 | 2,951 | 25 | 8 |
| Colorado | 264 | 2 | 3,622 | 1 | 14 | 191 | 72 | 1,282 | 35 | 7 |
| Connecticut | 93 | 1 | 1,967 | 1 | 21 | 58 | 62 | 507 | 26 | 9 |
| Delaware | 31 | (2) | 561 | (2) | 18 | 21 | 69 | 144 | 26 | 7 |
| District of Columbia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Florida | 426 | 2 | 10,099 | 3 | 24 | 296 | 70 | 5,716 | 57 | 19 |
| Georgia | 476 | 3 | 7,383 | 2 | 16 | 340 | 71 | 4,080 | 52 | 12 |
| Hawaii | 20 | (2) | 336 | (2) | 17 | 17 | 84 | 162 | 48 | 9 |
| Idaho | 185 | 1 | 2,798 | 1 | 15 | 146 | 79 | 990 | 35 | 7 |
| Illinois | 454 | 3 | 8,956 | 3 | 20 | 136 | 30 | 922 | 10 | 7 |
| Indiana | 374 | 2 | 9,284 | 3 | 25 | 151 | 40 | 1,790 | 19 | 12 |
| Iowa | 340 | 2 | 5,557 | 2 | 16 | 83 | 24 | 609 | 11 | 7 |
| Kansas | 243 | 1 | 4,066 | 1 | 17 | 42 | 17 | 421 | 10 | 10 |
| Kentucky | 320 | 2 | 6,958 | 2 | 22 | 157 | 49 | 1,190 | 17 | 8 |
| Louisiana | 485 | 3 | 12,637 | 4 | 26 | 294 | 61 | 3,802 | 30 | 13 |
| Maine | 174 | 1 | 3,000 | 1 | 17 | 165 | 95 | 1,658 | 55 | 10 |
| Maryland | 198 | 1 | 3,243 | 1 | 16 | 147 | 74 | 1,093 | 34 | 7 |
| Massachusetts | 131 | 1 | 4,155 | 1 | 32 | 87 | 67 | 934 | 22 | 11 |
| Michigan | 996 | 6 | 18,128 | 5 | 18 | 880 | 88 | 8,686 | 48 | 10 |
| Minnesota | 556 | 3 | 8,730 | 3 | 16 | 378 | 68 | 2,209 | 25 | 6 |
| Mississippi | 385 | 2 | 11,055 | 3 | 29 | 282 | 73 | 4,689 | 42 | 17 |
| Missouri | 483 | 3 | 8,777 | 3 | 18 | 279 | 58 | 2,067 | 24 | 7 |
| Montana | 154 | 1 | 1,956 | 1 | 13 | 144 | 93 | 1,151 | 59 | 8 |
| Nebraska | 175 | 1 | 3,378 | 1 | 19 | 46 | 26 | 243 | 7 | 5 |
| Nevada | 65 | (2) | 860 | (2) | 13 | 33 | 51 | 237 | 28 | 7 |
| New Hampshire | 73 | (2) | 1,264 | (2) | 17 | 70 | 95 | 708 | 56 | 10 |
| New Jersey | 185 | 1 | 3,843 | 1 | 21 | 149 | 81 | 1,268 | 33 | 9 |
| New Mexico | 113 | 1 | 1,468 | (2) | 13 | 90 | 80 | 396 | 27 | 4 |
| New York | 783 | 4 | 13,791 | 4 | 18 | 727 | 93 | 6,955 | 50 | 10 |
| North Carolina | 448 | 3 | 9,968 | 3 | 22 | 246 | 55 | 3,328 | 33 | 14 |
| North Dakota | 93 | 1 | 1,942 | 1 | 21 | 54 | 58 | 283 | 15 | 5 |
| Ohio | 671 | 4 | 13,170 | 4 | 20 | 335 | 50 | 3,282 | 25 | 10 |
| Oklahoma | 333 | 2 | 6,370 | 2 | 19 | 175 | 53 | 1,254 | 20 | 7 |
| Oregon | 325 | 2 | 4,790 | 1 | 15 | 294 | 90 | 2,837 | 59 | 10 |
| Pennsylvania | 1,129 | 6 | 18,998 | 6 | 17 | 1,053 | 93 | 8,121 | 43 | 8 |
| Rhode Island | 18 | (2) | 424 | (2) | 24 | *9 | 48 | *93 | 22 | *11 |

(See footnotes at end of table.)

Table 46. Hunters and Days of Participation, by Type of Hunting and State of Residence: 1980 (Continued)

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

| State | All hunting | | | | | Big game | | | | |
|----------------|-------------|---------|--------|---------|---------|----------|---------|--------|---------|---------|
| | Hunters | | Days | | | Hunters | | Days | | |
| | Number | Percent | Number | Percent | Average | Number | Percent | Number | Percent | Average |
| South Carolina | 206 | 1 | 5,538 | 2 | 27 | 135 | 65 | 1,663 | 30 | 12 |
| South Dakota | 123 | 1 | 2,615 | 1 | 21 | 47 | 38 | 382 | 15 | 8 |
| Tennessee | 497 | 3 | 10,184 | 3 | 20 | 231 | 46 | 2,391 | 23 | 10 |
| Texas | 1,352 | 8 | 22,660 | 7 | 17 | 838 | 62 | 6,665 | 29 | 8 |
| Utah | 207 | 1 | 2,112 | 1 | 10 | 189 | 91 | 937 | 44 | 5 |
| Vermont | 93 | 1 | 2,261 | 1 | 24 | 90 | 96 | 981 | 43 | 11 |
| Virginia | 445 | 3 | 9,635 | 3 | 22 | 365 | 82 | 4,617 | 48 | 13 |
| Washington | 348 | 2 | 5,475 | 2 | 16 | 285 | 82 | 2,731 | 50 | 10 |
| West Virginia | 307 | 2 | 7,431 | 2 | 24 | 253 | 82 | 2,333 | 31 | 9 |
| Wisconsin | 637 | 4 | 11,462 | 3 | 18 | 555 | 87 | 5,032 | 44 | 9 |
| Wyoming | 115 | 1 | 1,650 | 1 | 14 | 107 | 92 | 912 | 55 | 9 |

| State | Small game | | | | | Migratory birds | | | | |
|----------------------|------------|---------|---------|---------|---------|-----------------|---------|--------|---------|---------|
| | Hunters | | Days | | | Hunters | | Days | | |
| | Number | Percent | Number | Percent | Average | Number | Percent | Number | Percent | Average |
| Total, all States | 12,362 | 71 | 151,246 | 46 | 12 | 5,311 | 30 | 42,910 | 13 | 8 |
| Alabama | 328 | 72 | 3,872 | 39 | 12 | 178 | 39 | 1,549 | 15 | 9 |
| Alaska | 34 | 56 | 408 | 44 | 12 | 22 | 37 | 144 | 16 | 6 |
| Arizona | 153 | 81 | 2,074 | 59 | 14 | 114 | 60 | 820 | 23 | 7 |
| Arkansas | 289 | 76 | 4,054 | 47 | 14 | 105 | 28 | 1,166 | 14 | 11 |
| California | 610 | 74 | 6,463 | 54 | 11 | 445 | 54 | 3,062 | 26 | 7 |
| Colorado | 156 | 59 | 1,446 | 40 | 9 | 84 | 32 | 828 | 23 | 10 |
| Connecticut | 71 | 76 | 1,001 | 51 | 14 | 30 | 32 | 295 | 15 | 10 |
| Delaware | 21 | 67 | 256 | 46 | 12 | 15 | 47 | 128 | 23 | 9 |
| District of Columbia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Florida | 299 | 70 | 4,331 | 43 | 14 | 181 | 43 | 1,421 | 14 | 8 |
| Georgia | 282 | 59 | 2,582 | 33 | 9 | 150 | 32 | 50 | 11 | 6 |
| Hawaii | 10 | 48 | 161 | 48 | 17 | ... | ... | ... | ... | ... |
| Idaho | 120 | 65 | 1,306 | 47 | 11 | 50 | 27 | 426 | 15 | 9 |
| Illinois | 410 | 90 | 5,310 | 59 | 13 | 145 | 32 | 1,692 | 19 | 12 |
| Indiana | 328 | 88 | 4,769 | 51 | 15 | 40 | 11 | 383 | 4 | 9 |
| Iowa | 318 | 94 | 3,920 | 71 | 12 | 58 | 17 | 479 | 9 | 8 |
| Kansas | 219 | 90 | 2,568 | 63 | 12 | 100 | 41 | 846 | 21 | 8 |
| Kentucky | 282 | 88 | 3,699 | 53 | 13 | 95 | 30 | 673 | 10 | 7 |
| Louisiana | 403 | 83 | 6,146 | 49 | 15 | 202 | 42 | 1,943 | 15 | 10 |
| Maine | 93 | 53 | 1,064 | 35 | 11 | 25 | 14 | 285 | 10 | 12 |

(See footnotes at end of table.)

Table 46. Hunters and Days of Participation, by Type of Hunting and State of Residence: 1980 (Continued)

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

| State | Small game | | | | | Migratory Birds | | | | |
|----------------|------------|---------|--------|---------|---------|-----------------|---------|--------|---------|---------|
| | Hunters | | Days | | | Hunters | | Days | | |
| | Number | Percent | Number | Percent | Average | Number | Percent | Number | Percent | Average |
| Maryland | 126 | 64 | 1,379 | 43 | 11 | 72 | 37 | 700 | 22 | 10 |
| Massachusetts | 106 | 81 | 2,276 | 55 | 21 | 46 | 35 | 490 | 12 | 11 |
| Michigan | 559 | 56 | 7,541 | 42 | 13 | 180 | 18 | 1,614 | 9 | 9 |
| Minnesota | 402 | 72 | 4,469 | 51 | 11 | 220 | 40 | 1,805 | 21 | 8 |
| Mississippi | 299 | 78 | 4,488 | 41 | 15 | 152 | 39 | 1,124 | 10 | 7 |
| Missouri | 375 | 78 | 4,804 | 55 | 13 | 111 | 23 | 863 | 10 | 8 |
| Montana | 55 | 36 | 455 | 23 | 8 | 30 | 20 | 168 | 9 | 6 |
| Nebraska | 163 | 93 | 2,087 | 62 | 13 | 77 | 44 | 736 | 22 | 10 |
| Nevada | 48 | 74 | 471 | 55 | 10 | 22 | 33 | 111 | 13 | 5 |
| New Hampshire | 39 | 53 | 391 | 31 | 10 | 13 | 17 | 108 | 9 | 8 |
| New Jersey | 127 | 69 | 1,781 | 46 | 14 | 55 | 30 | 582 | 15 | 11 |
| New Mexico | 52 | 46 | 694 | 47 | 13 | 38 | 34 | 312 | 21 | 8 |
| New York | 407 | 52 | 4,654 | 34 | 11 | 129 | 16 | 780 | 6 | 6 |
| North Carolina | 359 | 80 | 4,810 | 48 | 13 | 173 | 39 | 1,204 | 12 | 7 |
| North Dakota | 67 | 72 | 847 | 44 | 13 | 51 | 54 | 444 | 23 | 9 |
| Ohio | 572 | 85 | 7,013 | 53 | 12 | 84 | 12 | 722 | 5 | 9 |
| Oklahoma | 282 | 85 | 3,909 | 61 | 14 | 91 | 27 | 769 | 12 | 8 |
| Oregon | 115 | 35 | 1,270 | 27 | 11 | 85 | 26 | 689 | 14 | 8 |
| Pennsylvania | 842 | 75 | 7,343 | 39 | 9 | 181 | 16 | 1,347 | 7 | 7 |
| Rhode Island | 14 | 76 | 241 | 57 | 18 | *7 | 38 | *102 | 24 | *15 |
| South Carolina | 139 | 67 | 2,214 | 40 | 16 | 106 | 51 | 948 | 17 | 9 |
| South Dakota | 109 | 88 | 1,626 | 62 | 15 | 47 | 38 | 469 | 18 | 10 |
| Tennessee | 404 | 81 | 5,263 | 52 | 13 | 151 | 30 | 924 | 9 | 6 |
| Texas | 897 | 66 | 10,046 | 44 | 11 | 688 | 51 | 5,064 | 22 | 7 |
| Utah | 104 | 50 | 787 | 37 | 8 | 38 | 18 | 271 | 13 | 7 |
| Vermont | 47 | 51 | 770 | 34 | 16 | 13 | 14 | 242 | 11 | 19 |
| Virginia | 303 | 68 | 3,056 | 32 | 10 | 134 | 30 | 803 | 8 | 6 |
| Washington | 189 | 54 | 2,082 | 38 | 11 | 110 | 32 | 1,209 | 22 | 11 |
| West Virginia | 250 | 82 | 3,266 | 44 | 13 | *10 | 3 | *381 | 1 | *4 |
| Wisconsin | 427 | 67 | 5,294 | 46 | 12 | 136 | 21 | 1,099 | 10 | 8 |
| Wyoming | 51 | 44 | 451 | 27 | 9 | 19 | 17 | 148 | 9 | 8 |

(See footnotes at end of table.)

**Table 46. Hunters and Days of Participation, by Type of Hunting and State of Residence:
1980 (Continued)**

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

| State | Other animals | | | | | State | Other animals | | | | |
|----------------------|---------------|---------|--------|---------|---------|----------------|---------------|---------|--------|---------|---------|
| | Hunters | | Days | | | | Hunters | | Days | | |
| | Number | Percent | Number | Percent | Average | | Number | Percent | Number | Percent | Average |
| Total, all States | 2,642 | 15 | 38,431 | 12 | 15 | Mississippi | 37 | 10 | 760 | 7 | 21 |
| Alabama | 59 | 13 | 738 | 7 | 12 | Missouri | 83 | 17 | 1,202 | 14 | 15 |
| Alaska | *4 | 7 | 72 | 8 | *16 | Montana | 31 | 20 | 393 | 20 | 13 |
| Arizona | *24 | 13 | *257 | 7 | *11 | Nebraska | 38 | 22 | 519 | 15 | 14 |
| Arkansas | 57 | 15 | 747 | 9 | 13 | Nevada | *8 | 13 | *104 | 12 | *13 |
| California | *56 | 7 | *400 | 3 | *7 | New Hampshire | 11 | 15 | 104 | 8 | 9 |
| Colorado | 37 | 14 | 352 | 10 | 9 | New Jersey | 36 | 19 | 413 | 11 | 11 |
| Connecticut | *19 | 20 | *324 | 16 | *17 | New Mexico | 14 | 12 | 201 | 14 | 15 |
| Delaware | *3 | 10 | *46 | 8 | *15 | New York | 126 | 16 | 1,689 | 12 | 13 |
| District of Columbia | ... | ... | ... | ... | ... | North Carolina | 68 | 15 | 837 | 8 | 12 |
| Florida | *44 | 10 | *534 | 5 | 12 | North Dakota | 35 | 38 | 450 | 23 | 13 |
| Georgia | *34 | 7 | *774 | 10 | 23 | Ohio | 157 | 23 | 2,334 | 18 | 15 |
| Hawaii | ... | ... | ... | ... | ... | Oklahoma | 54 | 16 | 569 | 9 | 11 |
| Idaho | 26 | 14 | 258 | 9 | 10 | Oregon | 32 | 10 | 264 | 6 | 8 |
| Illinois | 89 | 20 | 1,499 | 17 | 17 | Pennsylvania | 224 | 20 | 2,817 | 15 | 13 |
| Indiana | 93 | 25 | 2,529 | 27 | 27 | Rhode Island | ... | ... | ... | ... | ... |
| Iowa | 57 | 17 | 637 | 11 | 11 | South Carolina | 35 | 17 | 754 | 14 | 22 |
| Kansas | 40 | 17 | 486 | 12 | 12 | South Dakota | 32 | 26 | 446 | 17 | 14 |
| Kentucky | 65 | 20 | 1,482 | 21 | 23 | Tennessee | 96 | 19 | 1,705 | 17 | 18 |
| Louisiana | 54 | 11 | 1,188 | 9 | 22 | Texas | 233 | 17 | 3,015 | 13 | 13 |
| Maine | 13 | 8 | 170 | 6 | 13 | Utah | *15 | 7 | *173 | 8 | *11 |
| Maryland | *23 | 11 | *145 | 4 | *6 | Vermont | 17 | 19 | 323 | 14 | 19 |
| Massachusetts | *21 | 16 | *815 | 20 | *38 | Virginia | 99 | 22 | 1,493 | 16 | 15 |
| Michigan | 97 | 10 | 925 | 5 | 10 | Washington | *33 | 9 | *287 | 5 | *9 |
| Minnesota | 55 | 10 | 437 | 5 | 8 | West Virginia | 80 | 26 | 1,929 | 26 | 24 |
| | | | | | | Wisconsin | 54 | 9 | 518 | 5 | 10 |
| | | | | | | Wyoming | 18 | 16 | 292 | 18 | 16 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Z Less than .5 percent.

Table 47. Fishermen and Hunters, Days of Participation, and Expenditures, by State Where Activity Occurred: 1980

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

| State | Fishing | | | | | | | | | | | |
|----------------------|-----------|---------|----------|---------|-------------|---------|-----------------------|---------|----------|---------|-------------|---------|
| | Fishermen | | | | | | Days of participation | | | | | |
| | Total | | Resident | | Nonresident | | Total | | Resident | | Nonresident | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total, all States | 42,059 | 100 | 38,234 | 91 | 10,066 | 24 | 848,939 | 100 | 761,378 | 90 | 87,561 | 10 |
| Alabama | 1,156 | 100 | 890 | 77 | 267 | 23 | 21,874 | 100 | 19,045 | 87 | 2,830 | 13 |
| Alaska | 225 | 100 | 132 | 59 | 92 | 41 | 3,349 | 100 | 2,609 | 78 | 741 | 22 |
| Arizona | 502 | 100 | 350 | 70 | 152 | 30 | 6,399 | 100 | 4,980 | 78 | 1,419 | 22 |
| Arkansas | 896 | 100 | 574 | 64 | 321 | 36 | 15,277 | 100 | 13,069 | 86 | 2,209 | 14 |
| California | 3,758 | 100 | 3,496 | 93 | 262 | 7 | 60,467 | 100 | 58,322 | 96 | 2,146 | 4 |
| Colorado | 925 | 100 | 626 | 68 | 299 | 32 | 10,490 | 100 | 8,700 | 83 | 1,790 | 17 |
| Connecticut | 467 | 100 | 387 | 83 | 80 | 17 | 8,675 | 100 | 8,347 | 96 | 328 | 4 |
| Delaware | 224 | 100 | 87 | 39 | 137 | 61 | 2,396 | 100 | 1,671 | 70 | 725 | 30 |
| District of Columbia | 19 | 100 | 10 | 54 | ... | ... | 537 | 100 | 394 | 73 | 143 | 27 |
| Florida | 3,406 | 100 | 2,028 | 60 | 1,378 | 40 | 65,479 | 100 | 56,453 | 86 | 9,026 | 14 |
| Georgia | 1,284 | 100 | 1,135 | 88 | 149 | 12 | 23,794 | 100 | 22,221 | 93 | 1,573 | 7 |
| Hawaii | 244 | 100 | 153 | 63 | 91 | 37 | 3,276 | 100 | 3,018 | 92 | 258 | 8 |
| Idaho | 423 | 100 | 277 | 66 | 145 | 34 | 5,404 | 100 | 4,350 | 80 | 1,054 | 20 |
| Illinois | 1,560 | 100 | 1,409 | 90 | 150 | 10 | 29,123 | 100 | 28,036 | 96 | 1,088 | 4 |
| Indiana | 1,146 | 100 | 923 | 81 | 223 | 19 | 22,147 | 100 | 20,424 | 92 | 1,724 | 8 |
| Iowa | 646 | 100 | 592 | 92 | 54 | 8 | 11,074 | 100 | 10,743 | 97 | 332 | 3 |
| Kansas | 577 | 100 | 512 | 89 | 65 | 11 | 10,859 | 100 | 10,464 | 96 | 395 | 4 |
| Kentucky | 1,053 | 100 | 735 | 70 | 318 | 30 | 17,330 | 100 | 15,421 | 89 | 1,909 | 11 |
| Louisiana | 1,115 | 100 | 861 | 77 | 254 | 23 | 20,159 | 100 | 17,967 | 89 | 2,192 | 11 |
| Maine | 458 | 100 | 230 | 50 | 229 | 50 | 6,141 | 100 | 4,289 | 70 | 1,851 | 30 |
| Maryland | 776 | 100 | 538 | 69 | 238 | 31 | 8,419 | 100 | 7,186 | 85 | 1,233 | 15 |
| Massachusetts | 801 | 100 | 587 | 73 | 213 | 27 | 12,536 | 100 | 11,310 | 90 | 1,226 | 10 |
| Michigan | 2,287 | 100 | 1,738 | 76 | 549 | 24 | 44,481 | 100 | 39,697 | 89 | 4,783 | 11 |
| Minnesota | 1,661 | 100 | 1,177 | 71 | 484 | 29 | 21,520 | 100 | 17,971 | 84 | 3,548 | 16 |
| Mississippi | 762 | 100 | 550 | 72 | 213 | 28 | 15,467 | 100 | 13,337 | 86 | 2,130 | 14 |
| Missouri | 1,230 | 100 | 999 | 81 | 232 | 19 | 20,266 | 100 | 18,252 | 90 | 2,014 | 10 |
| Montana | 315 | 100 | 199 | 63 | 116 | 37 | 4,025 | 100 | 3,250 | 81 | 775 | 19 |
| Nebraska | 343 | 100 | 285 | 83 | 57 | 17 | 5,403 | 100 | 5,033 | 93 | 370 | 7 |
| Nevada | 217 | 100 | 109 | 50 | 108 | 50 | 1,836 | 100 | 1,406 | 77 | 430 | 23 |
| New Hampshire | 284 | 100 | 126 | 44 | 158 | 56 | 3,499 | 100 | 2,518 | 72 | 981 | 28 |
| New Jersey | 1,216 | 100 | 752 | 62 | 464 | 38 | 19,712 | 100 | 15,531 | 79 | 4,181 | 21 |
| New Mexico | 352 | 100 | 195 | 55 | 157 | 45 | 3,873 | 100 | 3,002 | 78 | 871 | 22 |
| New York | 2,110 | 100 | 1,800 | 85 | 310 | 15 | 36,281 | 100 | 34,305 | 95 | 1,976 | 5 |
| North Carolina | 1,582 | 100 | 1,122 | 71 | 460 | 29 | 23,708 | 100 | 20,747 | 88 | 2,961 | 12 |
| North Dakota | 154 | 100 | 139 | 90 | *16 | 10 | 2,068 | 100 | 1,950 | 94 | *118 | 6 |
| Ohio | 1,816 | 100 | 1,683 | 93 | 133 | 7 | 39,496 | 100 | 37,992 | 96 | 1,505 | 4 |
| Oklahoma | 1,009 | 100 | 769 | 76 | 240 | 24 | 18,990 | 100 | 17,122 | 90 | 1,868 | 10 |
| Oregon | 841 | 100 | 654 | 78 | 187 | 22 | 14,162 | 100 | 13,009 | 92 | 1,153 | 8 |
| Pennsylvania | 1,425 | 100 | 1,181 | 83 | 243 | 17 | 27,130 | 100 | 25,335 | 93 | 1,796 | 7 |
| Rhode Island | 222 | 100 | 117 | 53 | 105 | 47 | 3,597 | 100 | 2,834 | 79 | 763 | 21 |

(See footnotes at end of table.)

Table 47. Fishermen and Hunters, Days of Participation, and Expenditures, by State Where Activity Occurred: 1980 (Continued)

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

| State | Fishing | | | | | | | | | | | |
|----------------|-----------|---------|----------|---------|-------------|---------|-----------------------|---------|----------|---------|-------------|---------|
| | Fishermen | | | | | | Days of participation | | | | | |
| | Total | | Resident | | Nonresident | | Total | | Resident | | Nonresident | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| South Carolina | 935 | 100 | 602 | 64 | 333 | 36 | 16,312 | 100 | 14,574 | 89 | 1,738 | 11 |
| South Dakota | 217 | 100 | 148 | 68 | 69 | 32 | 2,793 | 100 | 2,397 | 86 | 396 | 14 |
| Tennessee | 1,161 | 100 | 904 | 78 | 258 | 22 | 19,209 | 100 | 17,653 | 92 | 1,555 | 8 |
| Texas | 2,908 | 100 | 2,631 | 90 | 277 | 10 | 54,981 | 100 | 53,080 | 97 | 1,901 | 3 |
| Utah | 397 | 100 | 253 | 64 | 144 | 36 | 5,201 | 100 | 3,236 | 62 | 1,965 | 38 |
| Vermont | 183 | 100 | 113 | 62 | 69 | 38 | 2,790 | 100 | 2,323 | 83 | 468 | 17 |
| Virginia | 1,176 | 100 | 870 | 74 | 306 | 26 | 17,032 | 100 | 14,603 | 86 | 2,429 | 14 |
| Washington | 1,122 | 100 | 936 | 83 | 186 | 17 | 19,565 | 100 | 18,442 | 94 | 1,123 | 6 |
| West Virginia | 417 | 100 | 341 | 82 | 76 | 18 | 7,594 | 100 | 7,183 | 95 | 411 | 5 |
| Wisconsin | 1,825 | 100 | 1,176 | 64 | 649 | 36 | 29,415 | 100 | 23,295 | 79 | 6,121 | 21 |
| Wyoming | 337 | 100 | 132 | 39 | 205 | 61 | 3,323 | 100 | 2,285 | 69 | 1,038 | 31 |

| State | Fishing (Continued) | | | | | | | | | | | |
|----------------------|-------------------------------------|---------|-----------|---------|-------------|---------|---------|---------|----------|---------|-------------|---------|
| | Expenditures ¹ (dollars) | | | | | | Hunting | | | | | |
| | Total | | Resident | | Nonresident | | Total | | Resident | | Nonresident | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total, all States | 7,117,247 | 100 | 5,560,900 | 78 | 1,556,346 | 22 | 17,444 | 100 | 16,572 | 95 | 2,103 | 12 |
| Alabama | 151,528 | 100 | 116,211 | 77 | 35,317 | 23 | 539 | 100 | 448 | 83 | 91 | 17 |
| Alaska | 61,205 | 100 | 35,027 | 57 | 26,178 | 43 | 64 | 100 | 59 | 93 | *5 | 7 |
| Arizona | 75,547 | 100 | 61,913 | 82 | 13,634 | 18 | 221 | 100 | 186 | 84 | 35 | 16 |
| Arkansas | 138,303 | 100 | 79,563 | 58 | 58,741 | 42 | 471 | 100 | 372 | 79 | 98 | 21 |
| California | 787,397 | 100 | 749,947 | 95 | 37,451 | 5 | 734 | 100 | 705 | 96 | 29 | 4 |
| Colorado | 117,686 | 100 | 81,290 | 69 | 36,396 | 31 | 373 | 100 | 244 | 65 | 129 | 35 |
| Connecticut | 54,380 | 100 | 49,556 | 91 | 4,824 | 9 | 80 | 100 | 74 | 93 | ... | ... |
| Delaware | 18,941 | 100 | 9,563 | 50 | 9,378 | 50 | 37 | 100 | *26 | 71 | *11 | 29 |
| District of Columbia | 3,095 | 100 | 2,549 | 82 | ... | ... | ... | ... | ... | ... | ... | ... |
| Florida | 592,410 | 100 | 386,290 | 65 | 206,120 | 35 | 387 | 100 | 365 | 94 | *21 | 6 |
| Georgia | 148,623 | 100 | 136,691 | 92 | 11,932 | 8 | 533 | 100 | 470 | 88 | 64 | 12 |
| Hawaii | 49,542 | 100 | 23,154 | 47 | 26,388 | 53 | 28 | 100 | 17 | 61 | ... | ... |
| Idaho | 53,695 | 100 | 31,729 | 59 | 21,967 | 41 | 220 | 100 | 181 | 82 | 39 | 18 |
| Illinois | 167,738 | 100 | 156,466 | 93 | 11,272 | 7 | 417 | 100 | 397 | 95 | *21 | 5 |
| Indiana | 140,232 | 100 | 108,730 | 78 | 31,502 | 22 | 386 | 100 | 362 | 94 | *24 | 6 |
| Iowa | 53,914 | 100 | 51,333 | 95 | 2,580 | 5 | 395 | 100 | 329 | 83 | 66 | 17 |
| Kansas | 65,558 | 100 | 61,139 | 93 | 4,419 | 7 | 333 | 100 | 234 | 70 | 99 | 30 |
| Kentucky | 119,611 | 100 | 91,972 | 77 | 27,639 | 23 | 392 | 100 | 313 | 80 | 79 | 20 |
| Louisiana | 153,529 | 100 | 129,366 | 84 | 24,164 | 16 | 516 | 100 | 464 | 90 | 52 | 10 |
| Maine | 60,631 | 100 | 17,970 | 30 | 42,662 | 70 | 214 | 100 | 174 | 81 | 40 | 19 |

(See footnotes at end of table.)

Table 47. Fishermen and Hunters, Days of Participation, and Expenditures, by State Where Activity Occurred: 1980 (Continued)

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

| State | Fishing (Continued) | | | | | | Hunting | | | | | |
|----------------|-------------------------------------|---------|----------|---------|-------------|---------|---------|---------|----------|---------|-------------|---------|
| | Expenditures ¹ (dollars) | | | | | | Hunters | | | | | |
| | Total | | Resident | | Nonresident | | Total | | Resident | | Nonresident | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Maryland | 86,559 | 100 | 70,019 | 81 | 16,540 | 19 | 187 | 100 | 162 | 87 | 25 | 13 |
| Massachusetts | 112,530 | 100 | 83,919 | 75 | 28,611 | 25 | 123 | 100 | 106 | 86 | ... | ... |
| Michigan | 324,439 | 100 | 260,968 | 80 | 63,471 | 20 | 1,067 | 100 | 986 | 92 | 81 | 8 |
| Minnesota | 226,467 | 100 | 158,693 | 70 | 67,774 | 30 | 566 | 100 | 543 | 96 | 23 | 4 |
| Mississippi | 91,839 | 100 | 73,551 | 80 | 18,288 | 20 | 490 | 100 | 379 | 77 | 111 | 23 |
| Missouri | 165,537 | 100 | 117,714 | 71 | 47,823 | 29 | 492 | 100 | 457 | 93 | 35 | 7 |
| Montana | 45,767 | 100 | 24,805 | 54 | 20,962 | 46 | 193 | 100 | 153 | 79 | 40 | 21 |
| Nebraska | 44,838 | 100 | 40,247 | 90 | 4,591 | 10 | 229 | 100 | 171 | 75 | 58 | 25 |
| Nevada | 33,104 | 100 | 19,061 | 58 | 14,042 | 42 | 65 | 100 | 53 | 82 | ... | ... |
| New Hampshire | 23,178 | 100 | 11,953 | 52 | 11,225 | 48 | 94 | 100 | 68 | 72 | 26 | 28 |
| New Jersey | 173,351 | 100 | 123,408 | 71 | 49,942 | 29 | 176 | 100 | 161 | 92 | *14 | 8 |
| New Mexico | 53,726 | 100 | 33,515 | 62 | 20,211 | 38 | 114 | 100 | 102 | 89 | ... | ... |
| New York | 288,532 | 100 | 253,533 | 88 | 34,999 | 12 | 847 | 100 | 768 | 91 | 79 | 9 |
| North Carolina | 193,089 | 100 | 144,011 | 75 | 49,077 | 25 | 467 | 100 | 427 | 92 | 39 | 8 |
| North Dakota | 19,134 | 100 | 17,302 | 90 | *1,832 | 10 | 106 | 100 | 87 | 82 | *19 | 18 |
| Ohio | 188,559 | 100 | 174,178 | 92 | 14,381 | 8 | 653 | 100 | 633 | 97 | *20 | 3 |
| Oklahoma | 140,374 | 100 | 115,588 | 82 | 24,786 | 18 | 356 | 100 | 316 | 89 | 41 | 11 |
| Oregon | 128,283 | 100 | 100,754 | 79 | 27,529 | 21 | 356 | 100 | 320 | 90 | *36 | 10 |
| Pennsylvania | 120,871 | 100 | 99,791 | 83 | 21,080 | 17 | 1,266 | 100 | 1,112 | 88 | 154 | 12 |
| Rhode Island | 19,757 | 100 | 10,549 | 53 | 9,208 | 47 | 16 | 100 | 14 | 87 | ... | ... |
| South Carolina | 105,317 | 100 | 67,737 | 64 | 37,580 | 36 | 242 | 100 | 199 | 82 | 43 | 18 |
| South Dakota | 29,442 | 100 | 17,692 | 60 | 11,750 | 40 | 180 | 100 | 121 | 67 | 59 | 33 |
| Tennessee | 136,670 | 100 | 100,544 | 74 | 36,126 | 26 | 508 | 100 | 465 | 92 | 43 | 8 |
| Texas | 583,562 | 100 | 548,192 | 94 | 35,370 | 6 | 1,329 | 100 | 1,264 | 95 | 64 | 5 |
| Utah | 62,066 | 100 | 37,051 | 60 | 25,015 | 40 | 232 | 100 | 201 | 86 | 32 | 14 |
| Vermont | 16,758 | 100 | 8,323 | 50 | 8,435 | 50 | 141 | 100 | 93 | 66 | 48 | 34 |
| Virginia | 135,803 | 100 | 105,803 | 78 | 29,999 | 22 | 487 | 100 | 418 | 86 | 69 | 14 |
| Washington | 166,114 | 100 | 142,359 | 86 | 23,755 | 14 | 343 | 100 | 324 | 95 | *19 | 5 |
| West Virginia | 45,464 | 100 | 41,172 | 91 | 4,292 | 9 | 386 | 100 | 304 | 79 | 82 | 21 |
| Wisconsin | 278,004 | 100 | 153,572 | 55 | 124,432 | 45 | 673 | 100 | 632 | 94 | 41 | 6 |
| Wyoming | 64,547 | 100 | 24,435 | 38 | 40,112 | 62 | 163 | 100 | 112 | 69 | 51 | 31 |

(See footnotes at end of table.)

Table 47. Fishermen and Hunters, Days of Participation, and Expenditures, by State Where Activity Occurred: 1980 (Continued)

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

| State | Hunting (Continued) | | | | | | | | | | | |
|----------------------|-----------------------|---------|----------|---------|-------------|---------|-------------------------------------|---------|-----------|---------|-------------|---------|
| | Days of participation | | | | | | Expenditures ¹ (dollars) | | | | | |
| | Total | | Resident | | Nonresident | | Total | | Resident | | Nonresident | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total, all States | 329,517 | 100 | 308,709 | 94 | 20,809 | 6 | 2,775,684 | 100 | 2,349,454 | 85 | 426,230 | 15 |
| Alabama | 10,735 | 100 | 9,816 | 91 | 918 | 9 | 78,491 | 100 | 58,551 | 75 | 19,939 | 25 |
| Alaska | 992 | 100 | 884 | 89 | *108 | 11 | 16,112 | 100 | 14,753 | 92 | 1,359 | 8 |
| Arizona | 3,649 | 100 | 3,345 | 92 | 304 | 8 | 46,421 | 100 | 44,443 | 96 | 1,978 | 4 |
| Arkansas | 9,059 | 100 | 8,368 | 92 | 691 | 8 | 72,198 | 100 | 53,987 | 75 | 18,211 | 25 |
| California | 9,585 | 100 | 9,316 | 97 | 269 | 3 | 166,041 | 100 | 158,059 | 95 | 7,981 | 5 |
| Colorado | 4,251 | 100 | 3,286 | 77 | 965 | 23 | 99,827 | 100 | 40,104 | 40 | 59,723 | 60 |
| Connecticut | 1,608 | 100 | 1,529 | 95 | ... | ... | 7,861 | 100 | 7,383 | 94 | ... | ... |
| Delaware | 549 | 100 | *499 | 91 | *50 | 9 | 4,047 | 100 | *2,799 | 69 | *1,248 | 31 |
| District of Columbia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Florida | 9,465 | 100 | 9,141 | 97 | *324 | 3 | 83,965 | 100 | 78,917 | 94 | *5,047 | 6 |
| Georgia | 8,033 | 100 | 7,538 | 94 | 495 | 6 | 63,123 | 100 | 57,524 | 91 | 5,599 | 9 |
| Hawaii | 342 | 100 | 302 | 88 | ... | ... | 6,992 | 100 | 3,853 | 55 | ... | ... |
| Idaho | 3,135 | 100 | 2,613 | 83 | 523 | 17 | 36,737 | 100 | 25,258 | 69 | 11,480 | 31 |
| Illinois | 8,250 | 100 | 8,096 | 98 | *154 | 2 | 37,273 | 100 | 35,090 | 94 | *2,182 | 6 |
| Indiana | 9,081 | 100 | 8,953 | 99 | *127 | 1 | 35,873 | 100 | 34,687 | 97 | *1,186 | 3 |
| Iowa | 5,692 | 100 | 5,282 | 93 | 410 | 7 | 37,021 | 100 | 27,649 | 75 | 9,373 | 25 |
| Kansas | 4,347 | 100 | 3,823 | 88 | 523 | 12 | 42,042 | 100 | 31,333 | 75 | 10,709 | 25 |
| Kentucky | 6,896 | 100 | 6,496 | 94 | 400 | 6 | 31,984 | 100 | 28,816 | 90 | 3,168 | 10 |
| Louisiana | 12,146 | 100 | 11,925 | 98 | 222 | 2 | 82,374 | 100 | 76,314 | 93 | 6,060 | 7 |
| Maine | 3,294 | 100 | 2,949 | 90 | 345 | 10 | 19,310 | 100 | 10,412 | 54 | 8,898 | 46 |
| Maryland | 2,793 | 100 | 2,722 | 97 | 71 | 3 | 24,534 | 100 | 20,987 | 86 | 3,547 | 14 |
| Massachusetts | 3,348 | 100 | 3,093 | 92 | ... | ... | 16,840 | 100 | 15,797 | 94 | ... | ... |
| Michigan | 18,513 | 100 | 17,815 | 96 | 698 | 4 | 171,451 | 100 | 159,857 | 93 | 11,594 | 7 |
| Minnesota | 8,558 | 100 | 8,328 | 97 | 230 | 3 | 70,125 | 100 | 66,707 | 95 | 3,418 | 5 |
| Mississippi | 11,789 | 100 | 10,622 | 90 | 1,167 | 10 | 81,550 | 100 | 68,526 | 84 | 13,025 | 16 |
| Missouri | 8,369 | 100 | 8,095 | 97 | 275 | 3 | 44,597 | 100 | 40,411 | 91 | 4,186 | 9 |
| Montana | 2,248 | 100 | 1,920 | 85 | 328 | 15 | 37,968 | 100 | 20,857 | 55 | 17,111 | 45 |
| Nebraska | 3,732 | 100 | 3,188 | 85 | 544 | 15 | 36,742 | 100 | 25,474 | 69 | 11,268 | 31 |
| Nevada | 681 | 100 | 638 | 94 | ... | ... | 16,311 | 100 | 16,071 | 99 | ... | ... |
| New Hampshire | 1,389 | 100 | 1,155 | 83 | 234 | 17 | 11,807 | 100 | 5,618 | 48 | 6,190 | 52 |

(See footnotes at end of table.)

Table 47. Fishermen and Hunters, Days of Participation, and Expenditures, by State Where Activity Occurred: 1980 (Continued)

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

| State | Hunting (Continued) | | | | | | | | | | | |
|----------------|-----------------------|---------|----------|---------|-------------|---------|-------------------------------------|---------|----------|---------|-------------|---------|
| | Days of participation | | | | | | Expenditures ¹ (dollars) | | | | | |
| | Total | | Resident | | Nonresident | | Total | | Resident | | Nonresident | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| New Jersey | 3,627 | 100 | 3,388 | 93 | *239 | 7 | 18,680 | 100 | 16,295 | 87 | *2,385 | 13 |
| New Mexico | 1,366 | 100 | 1,293 | 95 | ... | ... | 14,596 | 100 | 13,684 | 94 | ... | ... |
| New York | 14,450 | 100 | 13,404 | 93 | 1,046 | 7 | 87,324 | 100 | 78,454 | 90 | 8,871 | 10 |
| North Carolina | 9,390 | 100 | 9,196 | 98 | 194 | 2 | 56,726 | 100 | 50,851 | 90 | 5,876 | 10 |
| North Dakota | 1,928 | 100 | 1,816 | 94 | *113 | 6 | 17,706 | 100 | 15,031 | 85 | *2,674 | 15 |
| Ohio | 12,217 | 100 | 11,974 | 98 | *242 | 2 | 90,885 | 100 | 88,073 | 97 | *2,811 | 3 |
| Oklahoma | 6,431 | 100 | 6,083 | 95 | 348 | 5 | 46,464 | 100 | 41,228 | 89 | 5,236 | 11 |
| Oregon | 4,836 | 100 | 4,598 | 95 | *238 | 5 | 57,946 | 100 | 53,892 | 93 | *4,055 | 7 |
| Pennsylvania | 19,689 | 100 | 18,555 | 94 | 1,133 | 6 | 110,113 | 100 | 89,548 | 81 | 20,565 | 19 |
| Rhode Island | 333 | 100 | 330 | 99 | ... | ... | 1,609 | 100 | 1,600 | 99 | ... | ... |
| South Carolina | 5,904 | 100 | 5,328 | 90 | 576 | 10 | 32,438 | 100 | 25,831 | 80 | 6,606 | 20 |
| South Dakota | 3,119 | 100 | 2,572 | 82 | 547 | 18 | 36,343 | 100 | 18,303 | 50 | 18,040 | 50 |
| Tennessee | 9,587 | 100 | 9,161 | 96 | 426 | 4 | 68,128 | 100 | 62,920 | 92 | 5,208 | 8 |
| Texas | 22,390 | 100 | 21,317 | 95 | 1,073 | 5 | 262,080 | 100 | 246,406 | 94 | 15,673 | 6 |
| Utah | 2,407 | 100 | 1,914 | 80 | 493 | 20 | 34,892 | 100 | 27,123 | 78 | 7,770 | 22 |
| Vermont | 2,741 | 100 | 2,204 | 80 | 537 | 20 | 19,295 | 100 | 8,951 | 46 | 10,344 | 54 |
| Virginia | 9,960 | 100 | 9,057 | 91 | 903 | 9 | 81,105 | 100 | 69,545 | 86 | 11,561 | 14 |
| Washington | 5,186 | 100 | 5,023 | 97 | *162 | 3 | 73,232 | 100 | 66,756 | 91 | *6,476 | 9 |
| West Virginia | 7,628 | 100 | 7,020 | 92 | 608 | 8 | 41,272 | 100 | 34,764 | 84 | 6,508 | 16 |
| Wisconsin | 11,775 | 100 | 11,251 | 96 | 523 | 4 | 91,000 | 100 | 85,175 | 94 | 5,825 | 6 |
| Wyoming | 2,019 | 100 | 1,487 | 74 | 532 | 26 | 53,788 | 100 | 24,599 | 46 | 29,190 | 54 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

¹ Expenditures for travel, food, lodging, and fees only. Other expenditures were not recorded by State of purchase. Total expenditures do not equal the sum of comparable estimates in table 26 because of nonresponse.

Table 48. Participation of Sportsmen in Nonconsumptive Activities: 1980

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

| Activity | Fished or hunted | | | Fished only | | | Hunted only | | | Fished and hunted | | |
|-------------------------|------------------|---------------------------------|---------|-------------|---------------------------------|---------|-------------|---------------------------------|---------|-------------------|---------------------------------|---------|
| | Number | Percent of nonconsumptive users | Percent | Number | Percent of nonconsumptive users | Percent | Number | Percent of nonconsumptive users | Percent | Number | Percent of nonconsumptive users | Percent |
| Total participants | 34,435 | 36.9 | 73.7 | 22,088 | 23.7 | 75.5 | 2,575 | 2.8 | 55.3 | 9,772 | 10.5 | 76.4 |
| PRIMARY ACTIVITIES | | | | | | | | | | | | |
| Total | 30,121 | 36.2 | 64.5 | 19,457 | 23.4 | 66.5 | 2,188 | 2.6 | 47.0 | 8,477 | 10.2 | 66.3 |
| Triptakers | 12,173 | 42.2 | 26.1 | 7,046 | 24.4 | 24.1 | 967 | 3.4 | 20.8 | 4,160 | 14.4 | 32.5 |
| Observe | 12,114 | 42.2 | 25.9 | 7,002 | 24.4 | 23.9 | 967 | 3.4 | 20.8 | 4,145 | 14.5 | 32.4 |
| Photograph | 4,734 | 40.1 | 10.1 | 3,011 | 25.5 | 10.3 | 394 | 3.3 | 8.5 | 1,330 | 11.3 | 10.4 |
| Feed | 5,197 | 39.7 | 11.1 | 3,417 | 26.1 | 11.7 | *316 | 2.4 | 6.8 | 1,464 | 11.2 | 11.4 |
| Residential | 28,629 | 35.9 | 61.3 | 18,724 | 23.5 | 64.0 | 1,955 | 2.5 | 42.0 | 7,950 | 10.0 | 62.2 |
| Observe | 20,490 | 36.7 | 43.9 | 13,060 | 23.4 | 44.6 | 1,519 | 2.7 | 32.6 | 5,911 | 10.6 | 46.2 |
| Photograph | 5,515 | 44.5 | 11.8 | 3,545 | 28.6 | 12.1 | 421 | 3.4 | 9.0 | 1,548 | 12.5 | 12.1 |
| Feed birds | 21,358 | 34.2 | 45.7 | 14,438 | 23.1 | 49.3 | 1,406 | 2.3 | 30.2 | 5,514 | 8.8 | 43.1 |
| Feed other wildlife | 8,113 | 38.9 | 17.4 | 5,408 | 26.0 | 18.5 | 495 | 2.4 | 10.6 | 2,209 | 10.6 | 17.3 |
| Natural areas | 4,149 | 40.9 | 8.9 | 2,407 | 23.7 | 8.2 | *250 | 2.5 | 5.4 | 1,492 | 14.7 | 11.7 |
| Plantings | 4,559 | 36.5 | 9.8 | 2,793 | 22.4 | 9.5 | *237 | 1.9 | 5.1 | 1,529 | 12.3 | 12.0 |
| Public parks | 4,525 | 33.6 | 9.7 | 3,089 | 22.9 | 10.6 | *301 | 2.2 | 6.5 | 1,135 | 8.4 | 8.9 |
| SECONDARY ACTIVITIES | | | | | | | | | | | | |
| Total | 33,211 | 37.6 | 71.1 | 21,358 | 24.2 | 73.0 | 2,455 | 2.8 | 52.8 | 9,397 | 10.6 | 73.5 |
| Triptakers | 28,369 | 40.9 | 60.7 | 18,394 | 26.5 | 62.8 | 2,022 | 2.9 | 43.4 | 7,954 | 11.5 | 62.2 |
| Residential experiences | 29,943 | 37.2 | 64.1 | 19,160 | 23.8 | 65.5 | 2,131 | 2.6 | 45.8 | 8,652 | 10.8 | 67.6 |

Note: Detail does not add to total because of multiple responses. The screening questionnaire was used to determine if the participant hunted or fished and was completed by the household respondent and not necessarily by the participant.

* Estimate based on a small sample size.

Nonconsumptive Wildlife Use

Table 49. Participants in Nonconsumptive Activities, by Region: 1980

(U.S. population 16 years old and older. Numbers in thousands. Percents based on regional population)

| Region of residence | U.S. population | Primary | | | | | | | | Secondary | | | | | |
|---------------------|--------------------|---------|---------|--------|---------|----------------|---------|-------------|---------|-----------|---------|----------------|---------|-------------|---------|
| | | Total | | Total | | Nonresidential | | Residential | | Total | | Nonresidential | | Residential | |
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 169,942 | 93,249 | 54.9 | 83,173 | 48.9 | 28,822 | 17.0 | 79,670 | 46.9 | 88,272 | 51.9 | 69,407 | 40.8 | 80,475 | 47.4 |
| New England | 9,362 | 5,450 | 58.2 | 5,047 | 53.9 | 1,657 | 17.7 | 4,952 | 52.9 | 5,135 | 54.8 | 3,801 | 40.6 | 4,598 | 49.1 |
| Middle Atlantic | 27,867 | 13,512 | 48.5 | 12,348 | 44.3 | 4,111 | 14.8 | 11,872 | 42.6 | 12,288 | 44.1 | 9,165 | 32.9 | 11,195 | 40.2 |
| East North Central | 30,791 | 20,557 | 66.8 | 18,539 | 60.2 | 6,099 | 19.8 | 17,936 | 58.3 | 19,606 | 63.7 | 15,437 | 50.1 | 18,499 | 60.1 |
| West North Central | 12,774 | 8,149 | 63.8 | 7,357 | 57.6 | 3,000 | 23.5 | 6,783 | 53.1 | 7,929 | 62.1 | 6,344 | 49.7 | 7,340 | 57.5 |
| South Atlantic | 28,066 | 12,726 | 45.3 | 11,562 | 41.2 | 3,739 | 13.3 | 11,270 | 40.2 | 11,848 | 42.2 | 8,869 | 31.6 | 11,050 | 39.4 |
| East South Central | 10,792 | 4,752 | 44.0 | 4,294 | 39.8 | 1,173 | 10.9 | 4,117 | 38.2 | 4,523 | 41.9 | 3,243 | 30.0 | 4,179 | 38.7 |
| West South Central | 17,550 | 8,302 | 47.3 | 7,105 | 40.5 | 1,842 | 10.5 | 6,837 | 39.0 | 7,977 | 45.5 | 6,398 | 36.5 | 6,998 | 39.9 |
| Mountain | 8,415 | 5,315 | 63.2 | 4,574 | 54.4 | 2,125 | 25.2 | 4,133 | 49.1 | 4,991 | 59.3 | 4,290 | 51.0 | 4,307 | 51.2 |
| Pacific | 24,326 | 14,485 | 59.5 | 12,347 | 50.8 | 5,076 | 20.9 | 11,770 | 48.4 | 13,976 | 57.5 | 11,861 | 48.8 | 12,309 | 50.6 |

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

Table 50. Primary Nonresidential Participants and Trips, by Region: 1980

(U.S. population 16 years old and older. Percents based on primary nonresidential participants in region)

| Region of residence | Participants (thousands) | | | | | Trips | | | | | |
|---------------------|--------------------------|-------------|--------------|-----------------|--------------|-----------------------------------|----------------------|----------------------------------|---------------------------------|-------------------------|-----------------------------------|
| | Total ¹ | In-State | | In other States | | Total ² (thousands) | 1 day (thousands) | 2 or more days (thousands) | Average per partic- ipant | In-State (thousands) | In other States (thousands) |
| | | Num- ber | Per- cent | Num- ber | Per- cent | | | | | | |
| | | | | | | | | | | | |
| Total | 28,822 | 26,032 | 90.3 | 6,854 | 23.8 | 309,666 | 263,780 | 45,886 | 10.74 | 274,893 | 30,707 |
| New England | 1,657 | 1,512 | 91.2 | 545 | 32.9 | 15,943 | 14,066 | 1,877 | 9.62 | 13,995 | 1,828 |
| Middle Atlantic | 4,111 | 3,744 | 91.1 | 846 | 20.6 | 38,254 | 31,942 | 6,312 | 9.31 | 35,293 | 2,471 |
| East North Central | 6,099 | 5,367 | 88.0 | 1,656 | 27.1 | 75,511 | 66,928 | 8,582 | 12.38 | 66,230 | 8,907 |
| West North Central | 3,000 | 2,680 | 89.3 | 632 | 21.1 | 33,784 | 31,638 | 2,146 | 11.26 | 31,621 | 2,060 |
| South Atlantic | 3,739 | 3,194 | 85.4 | 1,187 | 31.8 | 39,411 | 35,185 | 4,226 | 10.54 | 33,220 | 6,052 |
| East South Central | 1,173 | 1,068 | 91.0 | *269 | 22.9 | 12,462 | 11,556 | 907 | 10.62 | 10,857 | *1,605 |
| West South Central | 1,842 | 1,693 | 91.9 | *280 | 15.2 | 26,001 | 22,440 | 3,561 | 14.11 | 24,283 | *832 |
| Mountain | 2,125 | 1,936 | 91.1 | 486 | 22.9 | 21,183 | 17,954 | 3,230 | 9.97 | 18,358 | 2,702 |
| Pacific | 5,076 | 4,838 | 95.3 | 953 | 18.8 | 47,117 | 32,072 | 15,045 | 9.28 | 41,036 | 4,249 |

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

* Estimate based on a small sample size.

¹ Includes 1,031 thousand participants taking trips to other countries, 3.6 percent of total primary nonresidential participants.

² Includes 4,067 thousand trips to other countries.

Table 51. Days of Participation in Primary Nonresidential Activities, by Region: 1980

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

| Region of residence | Total | | Observing | | Photographing | | Feeding | | Scouting ¹ | |
|---------------------|-----------------------|---------|-----------------------|----------------------------|-----------------------|-------------------------------------|-----------------------|--------------------------|-----------------------|-----------------------------|
| | Number (thousands) | Percent | Number (thousands) | Average per observer | Number (thousands) | Average per photog- rapher | Number (thousands) | Average per feeder | Number (thousands) | Average per sportsman |
| Total | 377,446 | 100.0 | 374,117 | 13.13 | 74,473 | 6.41 | 128,533 | 9.96 | 24,242 | 7.66 |
| New England | 18,673 | 4.9 | 17,472 | 10.54 | 3,497 | 5.56 | 7,375 | 7.70 | 866 | 5.64 |
| Middle Atlantic | 51,226 | 13.6 | 49,229 | 12.28 | 9,169 | 5.81 | 17,704 | 9.22 | 6,341 | 11.66 |
| East North Central | 87,033 | 22.3 | 87,033 | 14.42 | 13,776 | 6.18 | 29,416 | 9.98 | 7,191 | 9.56 |
| West North Central | 40,020 | 10.6 | 37,079 | 12.56 | 5,690 | 6.16 | 5,460 | 6.11 | 1,559 | 6.66 |
| South Atlantic | 49,540 | 13.1 | 47,395 | 12.73 | 9,648 | 5.61 | 19,332 | 11.87 | 1,873 | 7.66 |
| East South Central | 14,537 | 3.3 | 14,537 | 12.39 | 1,935 | 4.75 | 3,899 | 8.19 | 721 | 3.45 |
| West South Central | 28,000 | 7.4 | 27,647 | 15.25 | 5,800 | 7.88 | 12,233 | 14.67 | 2,178 | 6.85 |
| Mountain | 25,733 | 6.4 | 25,733 | 12.38 | 4,489 | 5.32 | 4,923 | 6.87 | 1,516 | 5.18 |
| Pacific | 69,015 | 18.3 | 67,991 | 13.47 | 20,471 | 8.02 | 28,191 | 11.12 | 1,998 | 4.79 |

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

¹ Includes scouting in other countries.**Table 52. Public Areas Visited by Primary Nonresidential Participants, by Region: 1980**

(U.S. population 16 years old and older. Percents based on primary nonresidential participants in region)

| Region of residence | Total primary nonresidential participants (thousands) | Any public area | | Local or regional park or natural area | | State-owned area | | National Wildlife Refuge | | Other Federal area | |
|---------------------|--|-----------------------|--------------|---|--------------|-----------------------|--------------|-----------------------------|--------------|-----------------------|--------------|
| | | Number (thousands) | Per- cent | Number (thousands) | Per- cent | Number (thousands) | Per- cent | Number (thousands) | Per- cent | Number (thousands) | Per- cent |
| Total | 28,822 | 21,731 | 75.4 | 9,820 | 34.1 | 12,545 | 43.5 | 4,561 | 15.8 | 6,283 | 21.8 |
| New England | 1,657 | 1,227 | 74.1 | 421 | 25.4 | 921 | 55.6 | *229 | 13.8 | *242 | 14.6 |
| Middle Atlantic | 4,111 | 2,916 | 71.0 | 1,222 | 29.7 | 1,975 | 48.0 | 537 | 13.1 | 519 | 12.6 |
| East North Central | 6,099 | 4,846 | 79.5 | 2,571 | 42.1 | 2,800 | 45.9 | 996 | 16.3 | 664 | 10.9 |
| West North Central | 3,000 | 2,060 | 68.7 | 1,048 | 34.9 | 1,216 | 40.5 | *382 | 12.7 | *377 | 12.6 |
| South Atlantic | 3,739 | 2,827 | 75.6 | 1,207 | 32.3 | 1,608 | 43.0 | 681 | 18.2 | 838 | 22.4 |
| East South Central | 1,173 | 689 | 58.7 | *209 | 17.8 | *345 | 29.4 | ... | ... | *169 | 14.4 |
| West South Central | 1,842 | 1,088 | 59.1 | *375 | 20.3 | 461 | 25.0 | *285 | 15.5 | *274 | 14.9 |
| Mountain | 2,125 | 1,725 | 81.2 | 577 | 27.2 | 735 | 34.6 | *264 | 12.4 | 970 | 45.7 |
| Pacific | 5,076 | 4,353 | 85.7 | 2,192 | 43.2 | 2,484 | 48.9 | 1,068 | 21.0 | 2,228 | 43.9 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 53. Sites Visited by Primary Nonresidential Participants, by Region: 1980

(U.S. population 16 years old and older. Percents based on primary nonresidential participants in region)

| Region of residence | Total participants (thousands) | Woodland | Brush-covered area | Open field | Marsh, wet-land or swamp | Lake or streamside | Oceanside | Manmade area |
|---------------------|--------------------------------|----------|--------------------|------------|--------------------------|--------------------|-----------|--------------|
| Total | 28,822 | 72.5 | 44.1 | 43.7 | 27.9 | 51.8 | 18.8 | 17.4 |
| New England | 1,657 | 76.3 | 37.3 | 46.6 | 45.7 | 51.0 | 35.9 | *12.2 |
| Middle Atlantic | 4,111 | 77.0 | 43.5 | 44.4 | 30.0 | 50.1 | 15.5 | 15.5 |
| East North Central | 6,099 | 81.4 | 41.1 | 50.3 | 32.5 | 55.4 | 6.4 | 21.4 |
| West North Central | 3,000 | 70.1 | 45.0 | 49.2 | 24.7 | 57.0 | *6.7 | *12.8 |
| South Atlantic | 3,739 | 74.0 | 41.3 | 42.1 | 35.4 | 46.8 | 22.1 | 16.7 |
| East South Central | 1,173 | 83.6 | 50.6 | 44.5 | . | 39.2 | ... | *17.3 |
| West South Central | 1,842 | 62.0 | 51.7 | 42.4 | 23.5 | 51.2 | *13.8 | *17.8 |
| Mountain | 2,125 | 66.3 | 55.0 | 37.4 | *13.5 | 50.7 | ... | *15.9 |
| Pacific | 5,076 | 61.1 | 42.9 | 35.4 | 23.2 | 53.1 | 44.9 | 19.3 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 54. Wildlife Observed, Photographed, or Fed by Primary Nonresidential Participants, by Region: 1980

(U.S. population 16 years old and older. Percents based on primary nonresidential participants in region)

| Region of residence | Total participants (thousands) | Song-birds | Birds of prey | Water-fowl | Shore-birds | Upland game birds | Deer | Elk | Bears | Coyotes or wolves | Other large mammals | Squirrels or chipmunks | Rabbits or hares | Other small mammals | Marine mammals | Butterflies | Spiders, beetles, or other insects | Trout or salmon | Other fish | Reptiles and amphibians | Other |
|---------------------|--------------------------------|------------|---------------|------------|-------------|-------------------|------|-------|-------|-------------------|---------------------|------------------------|------------------|---------------------|----------------|-------------|------------------------------------|-----------------|------------|-------------------------|-------|
| Total | 28,822 | 62.9 | 49.5 | 65.7 | 29.6 | 35.3 | 52.3 | 6.9 | 7.8 | 11.5 | 8.2 | 68.7 | 52.2 | 33.2 | 10.1 | 42.3 | 39.9 | 15.0 | 27.8 | 41.2 | 6.0 |
| New England | 1,657 | 64.2 | 45.3 | 75.6 | 40.3 | 38.2 | 31.7 | ... | ... | ... | *10.4 | 67.2 | 45.4 | 40.8 | *13.7 | 47.5 | 42.1 | *20.1 | 26.0 | 37.1 | ... |
| Middle Atlantic | 4,111 | 58.8 | 40.9 | 63.7 | 28.9 | 40.7 | 61.2 | ... | *5.9 | ... | *4.1 | 71.7 | 58.0 | 36.5 | *5.2 | 35.7 | 35.1 | 17.1 | 33.6 | 36.6 | *7.8 |
| East North Central | 6,099 | 66.1 | 46.8 | 77.3 | 23.5 | 38.0 | 54.6 | *4.1 | 8.3 | 6.7 | *5.4 | 75.9 | 59.8 | 36.9 | *3.3 | 45.9 | 41.3 | 11.2 | 32.8 | 43.1 | *2.6 |
| West North Central | 3,000 | 56.9 | 46.7 | 66.7 | 27.1 | 39.5 | 54.7 | *11.3 | ... | 16.7 | *12.3 | 68.9 | 52.5 | 31.6 | ... | 45.8 | 35.0 | *7.6 | 28.0 | 38.5 | *9.7 |
| South Atlantic | 3,739 | 64.1 | 49.3 | 60.1 | 31.1 | 33.2 | 49.3 | *5.2 | 10.7 | ... | ... | 66.4 | 50.8 | 35.6 | 16.9 | 41.9 | 39.4 | 10.9 | 27.7 | 46.1 | *6.6 |
| East South Central | 1,173 | 65.8 | 47.0 | 56.0 | *15.8 | *30.5 | 67.4 | ... | ... | ... | ... | 67.3 | 44.8 | *27.8 | ... | 41.7 | 36.7 | ... | *21.5 | 40.7 | ... |
| West South Central | 1,842 | 64.6 | 46.2 | 53.6 | 22.7 | 29.1 | 49.1 | ... | ... | *14.6 | ... | 52.9 | 47.1 | 32.5 | ... | 35.1 | 34.5 | ... | *19.7 | 34.9 | *12.6 |
| Mountain | 2,125 | 60.6 | 61.4 | 61.1 | 19.0 | 28.0 | 58.1 | 18.3 | ... | 25.2 | 25.3 | 63.3 | 49.5 | 21.2 | ... | 37.2 | 40.8 | 31.1 | *14.4 | 37.7 | ... |
| Pacific | 5,076 | 64.4 | 60.0 | 62.1 | 44.6 | 31.9 | 45.2 | 12.2 | 10.5 | 23.6 | 10.2 | 67.9 | 46.4 | 29.5 | 24.3 | 44.8 | 47.1 | 23.3 | 27.7 | 45.9 | *4.8 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 55. Expenditures for Primary Nonresidential Activities, by Region: 1980

(U.S. population 16 years old and older. Percents and averages based on primary nonresidential participants. Excludes expenditures outside of United States)

| Region of residence | Total participants (thousands) | Spenders | | Amount (thousands of dollars) | Average (dollars) | Expenditures per day (dollars) |
|---------------------|-----------------------------------|-----------------------|----------------------|-------------------------------------|----------------------|--------------------------------------|
| | | Number (thousands) | Percent in region | | | |
| Total | 28,822 | 25,675 | 89.1 | 4,015,952 | 139.33 | 10.64 |
| New England | 1,657 | 1,503 | 90.7 | 212,825 | 128.44 | 11.40 |
| Middle Atlantic | 4,111 | 3,535 | 86.0 | 530,776 | 129.13 | 10.36 |
| East North Central | 6,099 | 5,447 | 89.3 | 849,260 | 139.25 | 10.07 |
| West North Central | 3,000 | 2,586 | 86.2 | 183,603 | 61.19 | 4.59 |
| South Atlantic | 3,739 | 3,288 | 88.0 | 558,203 | 149.30 | 11.27 |
| East South Central | 1,173 | 994 | 84.7 | 92,742 | 79.03 | 7.38 |
| West South Central | 1,842 | 1,711 | 92.9 | 267,526 | 145.21 | 9.55 |
| Mountain | 2,125 | 1,901 | 89.5 | 307,261 | 144.61 | 12.76 |
| Pacific | 5,076 | 4,709 | 92.8 | 1,013,757 | 199.70 | 14.69 |

Table 56. Expenditures for Primary Nonresidential Activities, by Type: 1980

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

| Type of expenditure | Total (thousands of dollars) | Percent | Average per participant (dollars) |
|---------------------------|------------------------------|---------|-----------------------------------|
| Total | 4,015.952 | 100.0 | 139.33 |
| Food and drink | 1,450.550 | 36.1 | 50.33 |
| Lodging | 513.968 | 12.8 | 17.83 |
| Transportation: | | | |
| Public | 381.808 | 9.5 | 13.25 |
| Private | 1,541.253 | 38.4 | 53.47 |
| Guide fees | *13.442 | 0.3 | 0.47 |
| Pack trip or package fees | *12.271 | 0.3 | 0.43 |
| Land-use fees: | | | |
| Public | 39.183 | 1.0 | 1.36 |
| Private | *11.248 | 0.3 | 0.39 |
| Equipment rental | 52.230 | 1.3 | 1.81 |

* Estimate based on a small sample size

Table 57. Trips Taken by Secondary Nonresidential Participants, by Region: 1980

(U.S. population 16 years old and older. Numbers in thousands. Percents based on secondary nonresidential participants in region)

| Region of residence | Total participants | 1-10 | | 11-20 | | 21-30 | | 31-50 | | More than 50 | |
|---------------------|--------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 69,407 | 36,432 | 52.5 | 11,407 | 16.4 | 4,874 | 7.0 | 3,539 | 5.1 | 12,995 | 18.7 |
| New England | 3,801 | 2,193 | 57.7 | 634 | 16.7 | *184 | 4.8 | *165 | 4.3 | 626 | 16.5 |
| Middle Atlantic | 9,165 | 5,129 | 56.0 | 1,391 | 15.2 | 742 | 8.1 | 475 | 5.2 | 1,400 | 15.3 |
| East North Central | 15,437 | 8,003 | 51.8 | 2,531 | 16.4 | 1,106 | 7.2 | 1,051 | 6.8 | 2,687 | 17.4 |
| West North Central | 6,344 | 3,314 | 52.2 | 1,212 | 19.1 | 413 | 6.5 | *352 | 5.6 | 1,052 | 16.6 |
| South Atlantic | 8,869 | 4,628 | 52.2 | 1,281 | 14.4 | 618 | 7.0 | 412 | 4.6 | 1,887 | 21.3 |
| East South Central | 3,243 | 1,638 | 50.5 | 737 | 22.7 | ... | ... | *190 | 5.9 | 525 | 16.2 |
| West South Central | 6,398 | 3,586 | 56.1 | 888 | 13.9 | 463 | 7.2 | *226 | 3.5 | 1,220 | 19.1 |
| Mountain | 4,290 | 2,403 | 56.0 | 551 | 12.8 | *268 | 6.2 | ... | ... | 936 | 21.8 |
| Pacific | 11,861 | 5,537 | 46.7 | 2,183 | 18.4 | 930 | 7.8 | 535 | 4.5 | 2,661 | 22.4 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably

Table 58. Purpose of Trip and Importance of Wildlife for Secondary Nonresidential Participants, by Region: 1980

(U.S. population 16 years old and older. Percents based on secondary nonresidential participants in region)

| Region of residence | Total participants (thousands) | Driving for pleasure | Boating or canoeing | | | | | Off-road vehicle driving | Tennis, golf, and other outdoor sports | Walking, hiking, backpacking, or cross-country skiing | | | Presence of wildlife was important ¹ |
|---------------------|--------------------------------|----------------------|---------------------|---------|---------|---------|------------|--------------------------|--|---|----------|-------|---|
| | | | | Camping | Fishing | Hunting | Picnicking | | | | Swimming | Other | |
| Total | 69,407 | 67.6 | 21.2 | 24.9 | 27.9 | 12.3 | 38.9 | 10.2 | 15.3 | 41.9 | 15.7 | 17.6 | 60.8 |
| New England | 3,801 | 60.0 | 17.4 | 22.2 | 21.2 | 14.6 | 30.7 | *7.4 | 13.7 | 48.1 | 18.7 | 19.7 | 61.2 |
| Middle Atlantic | 9,165 | 69.2 | 17.0 | 21.3 | 18.2 | 12.1 | 38.9 | 9.6 | 15.6 | 40.4 | 16.8 | 16.6 | 60.1 |
| East North Central | 15,437 | 70.4 | 26.3 | 24.5 | 27.9 | 10.4 | 41.1 | 9.4 | 18.6 | 46.5 | 18.2 | 15.8 | 62.2 |
| West North Central | 6,344 | 68.2 | 22.0 | 24.4 | 35.9 | 16.2 | 46.0 | 9.4 | 15.7 | 44.2 | 12.2 | 14.7 | 64.3 |
| South Atlantic | 8,869 | 64.4 | 20.5 | 17.4 | 26.3 | 9.5 | 35.1 | 7.9 | 16.1 | 39.2 | 16.3 | 18.4 | 59.7 |
| East South Central | 3,243 | 63.9 | 23.4 | 20.6 | 29.1 | 13.0 | 28.5 | *6.5 | *11.7 | 34.6 | 12.5 | 19.2 | 58.2 |
| West South Central | 6,398 | 57.8 | 19.7 | 19.8 | 37.0 | 15.4 | 30.9 | 9.0 | 9.9 | 28.4 | 14.0 | 21.1 | 56.5 |
| Mountain | 4,290 | 72.0 | 17.4 | 35.0 | 34.9 | 15.5 | 38.3 | 19.7 | 12.1 | 39.1 | 10.9 | 13.6 | 58.1 |
| Pacific | 11,861 | 71.6 | 20.5 | 35.0 | 26.8 | 10.9 | 44.8 | 13.0 | 15.8 | 46.0 | 15.5 | 20.4 | 62.2 |

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

* Estimate based on a small sample size.

¹ Only one yes response per participant included in total. The question read: Was the presence of wildlife an important reason for selecting the place(s) you visited when _____ in 1980?

Table 59. Public Areas Visited by Secondary Nonresidential Participants, by Region: 1980

(U.S. population 16 years old and older. Numbers in thousands. Percents based on secondary nonresidential participants in region)

| Region of residence | Total participants | Any public area | | Local or regional park or natural area | | State-owned area | | National wildlife refuge | | Other Federal area | |
|---------------------|--------------------|-----------------|---------|--|---------|------------------|---------|--------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total | 69,407 | 48,897 | 70.4 | 25,103 | 36.2 | 30,529 | 44.0 | 8,264 | 11.9 | 18,297 | 26.4 |
| New England | 3,801 | 2,557 | 67.3 | 1,468 | 38.6 | 1,405 | 37.0 | 467 | 12.3 | 932 | 24.5 |
| Middle Atlantic | 9,165 | 5,993 | 65.4 | 3,051 | 33.3 | 4,193 | 45.8 | 888 | 9.7 | 1,581 | 17.3 |
| East North Central | 15,437 | 10,719 | 69.4 | 5,943 | 38.5 | 7,124 | 46.1 | 1,285 | 8.3 | 2,003 | 13.0 |
| West North Central | 6,344 | 4,422 | 69.7 | 2,503 | 39.5 | 2,815 | 44.4 | 904 | 14.3 | 1,190 | 18.8 |
| South Atlantic | 8,869 | 5,874 | 66.2 | 2,498 | 28.2 | 3,296 | 37.2 | 1,230 | 13.9 | 2,333 | 26.3 |
| East South Central | 3,243 | 2,157 | 66.5 | 737 | 22.7 | 1,288 | 39.7 | 391 | 12.0 | 742 | 22.9 |
| West South Central | 6,398 | 3,805 | 59.5 | 1,804 | 28.2 | 2,114 | 33.0 | 649 | 10.1 | 1,450 | 22.7 |
| Mountain | 4,290 | 3,571 | 83.2 | 1,634 | 38.1 | 1,936 | 45.1 | 400 | 9.3 | 2,252 | 52.5 |
| Pacific | 11,861 | 9,799 | 82.6 | 5,465 | 46.1 | 6,358 | 53.6 | 2,050 | 17.3 | 5,813 | 49.0 |

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

Table 60. Days Observing and Photographing Wildlife by Primary Residential Participants, by Region: 1980

(U.S. population 16 years old and older. Percents based on participants in region)

| Region of residence | Observers | | | | | Photographers | | | | | |
|---------------------|--------------------|-----------------------|-----------|------------|-----------------|--------------------|-----------------------|----------|-----------|-----------------|---------|
| | Number (thousands) | Percent of population | Percent | | | Number (thousands) | Percent of population | Percent | | | Average |
| | | | 1-10 days | 11-50 days | 51 or more days | | | 1-5 days | 6-20 days | 21 or more days | |
| Total | 55,871 | 32.9 | 19.7 | 25.3 | 54.3 | 12,401 | 7.3 | 70.8 | 22.9 | 5.5 | 7.86 |
| New England | 3,590 | 38.4 | 17.8 | 23.7 | 58.4 | 885 | 9.4 | 69.2 | *22.4 | ... | 8.01 |
| Middle Atlantic | 8,059 | 28.9 | 18.3 | 25.6 | 55.9 | 1,806 | 6.5 | 66.1 | 23.3 | *9.7 | 9.59 |
| East North Central | 12,455 | 40.5 | 19.8 | 25.1 | 54.0 | 2,631 | 8.5 | 79.2 | *18.4 | ... | 6.24 |
| West North Central | 4,894 | 38.3 | 24.0 | 25.6 | 50.2 | 1,086 | 8.5 | 77.7 | *16.6 | ... | 5.45 |
| South Atlantic | 7,886 | 28.1 | 21.3 | 21.7 | 56.1 | 1,687 | 6.0 | 75.3 | *18.4 | ... | 9.75 |
| East South Central | 2,637 | 24.4 | 16.8 | 31.1 | 49.9 | 447 | 4.1 | *58.9 | ... | ... | 8.22 |
| West South Central | 4,849 | 27.6 | 19.3 | 29.1 | 50.9 | 979 | 5.6 | 78.2 | *18.4 | ... | 6.29 |
| Mountain | 2,989 | 35.5 | 21.2 | 29.0 | 48.3 | 817 | 9.7 | 72.9 | *23.8 | ... | 3.90 |
| Pacific | 8,510 | 35.0 | 18.4 | 24.1 | 57.2 | 2,062 | 8.5 | 56.1 | 36.4 | *7.6 | 10.30 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 61. Wildlife Observed by Primary Residential Participants, by Region: 1980

(U.S. population 16 years old and older. Percents based on observers in region.)

| Region of residence | Total obser- vers (thou- sands) | Song- birds | Birds of prey | Water- fowl | Shore- birds | Upland game birds | Coyotes or wolves | | Other large mam- mals | Squir- rels or chip munks | Rab- bits or hares | Rac- coons | Other small mam- mals | Butter- flies | Spiders, beetles, or other insects | Fish | Reptiles and amphibians | Other |
|---------------------|---|----------------|---------------------|----------------|-----------------|-------------------------|-------------------------|------|--------------------------------|------------------------------------|--------------------------|---------------|--------------------------------|------------------|--|------|----------------------------|-------|
| Total | 55.871 | 89.8 | 30.8 | 30.2 | 11.1 | 24.3 | 19.2 | 4.1 | 1.6 | 69.7 | 51.8 | 20.0 | 17.4 | 50.3 | 42.8 | 10.1 | 31.9 | 6.4 |
| New England | 3.590 | 93.6 | 27.5 | 37.5 | 15.8 | 24.8 | 14.9 | ... | ... | 80.3 | 48.5 | 29.8 | 29.8 | 48.8 | 43.7 | 11.2 | 33.5 | *7.2 |
| Middle Atlantic | 8.059 | 91.9 | 27.0 | 30.6 | 11.9 | 27.4 | 23.8 | ... | ... | 74.8 | 57.0 | 28.1 | 21.0 | 44.0 | 41.1 | 11.5 | 24.2 | *4.4 |
| East North Central | 12.455 | 91.3 | 29.2 | 35.6 | 7.6 | 23.3 | 23.1 | *1.4 | ... | 80.4 | 68.7 | 26.5 | 23.1 | 55.0 | 44.8 | 11.2 | 30.2 | 5.1 |
| West North Central | 4.894 | 91.1 | 30.8 | 33.9 | *7.3 | 31.8 | 28.1 | *6.8 | ... | 77.4 | 64.7 | 21.9 | 18.2 | 49.5 | 39.2 | 9.8 | 26.7 | *3.9 |
| South Atlantic | 7.886 | 90.3 | 28.1 | 26.7 | 14.8 | 19.6 | 13.5 | ... | ... | 74.3 | 54.1 | 15.3 | 16.0 | 47.3 | 39.2 | 12.2 | 33.4 | 6.1 |
| East South Central | 2.637 | 88.9 | 31.2 | 20.1 | ... | 22.2 | 15.4 | ... | ... | 74.9 | 60.0 | 17.3 | 17.2 | 53.1 | 36.4 | *6.2 | 31.4 | ... |
| West South Central | 4.849 | 89.0 | 24.3 | 20.3 | *5.1 | 18.2 | 15.6 | *6.1 | ... | 60.2 | 39.1 | 11.8 | *6.2 | 46.7 | 31.7 | *7.6 | 33.4 | *6.9 |
| Mountain | 2.989 | 81.9 | 32.0 | 32.9 | *8.8 | 27.1 | 16.6 | 15.1 | ... | 52.7 | 34.7 | ... | *12.3 | 54.1 | 49.3 | ... | 41.6 | *11.2 |
| Pacific | 8.510 | 86.6 | 43.8 | 27.9 | 18.3 | 25.6 | 15.3 | 10.3 | *3.9 | 46.0 | 24.9 | 13.3 | 9.3 | 53.4 | 52.7 | 9.8 | 38.5 | 9.9 |

Note: Detail does not add to total because of multiple responses. * Estimate based on a small sample size. ... Sample size too small to report data reliably.

Table 62. Wildlife Photographed by Primary Residential Participants: 1980

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

| Type of wildlife | Photographers | Percent |
|------------------------------------|---------------|---------|
| Total | 12,401 | 100.0 |
| Songbirds | 6,615 | 53.3 |
| Birds of prey | 1,251 | 10.1 |
| Waterfowl | 2,021 | 16.3 |
| Shorebirds | 780 | 6.3 |
| Upland game birds | 675 | 5.4 |
| Deer | 1,182 | 9.5 |
| Coyotes and wolves | ... | ... |
| Other large mammals | *186 | 1.5 |
| Squirrels and chipmunks | 3,888 | 31.4 |
| Rabbits and hares | 1,918 | 15.5 |
| Raccoons | 717 | 5.8 |
| Other small mammals | 531 | 4.3 |
| Butterflies | 1,232 | 9.9 |
| Spiders, beetles, or other insects | 806 | 6.5 |
| Fish | 466 | 3.8 |
| Reptiles and amphibians | 710 | 5.7 |
| Other | 527 | 4.3 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 63. Feeding Wild Birds and Other Wildlife by Primary Residential Participants, by Region: 1980

(U.S. population 16 years old and older. Percents based on regional population)

| Region of residence | Fed wild birds | | | Maintained bird feeders (percent of all feeders) | Type of feed used (percent of all feeders) | | | | | Fed other wildlife | |
|---------------------|--------------------|-----------------------|----------------|--|--|------|------------------------------|-------------------|-------|--------------------|-----------------------|
| | Number (thousands) | Percent of population | Average months | | Seed | Suet | Sugar water for hummingbirds | Crumbs and scraps | Other | Number (thousands) | Percent of population |
| Total | 62,463 | 36.8 | 6.28 | 43.1 | 55.9 | 16.2 | 6.5 | 73.8 | 10.9 | 20,833 | 12.3 |
| New England | 4,200 | 44.9 | 6.29 | 56.6 | 66.3 | 33.5 | ... | 72.9 | *7.3 | 1,150 | 12.3 |
| Middle Atlantic | 9,429 | 33.8 | 6.82 | 43.2 | 59.6 | 22.3 | ... | 80.2 | 8.3 | 3,613 | 13.0 |
| East North Central | 14,757 | 47.9 | 5.70 | 45.1 | 58.7 | 20.7 | *1.5 | 74.7 | 12.8 | 5,732 | 18.6 |
| West North Central | 4,908 | 38.4 | 5.16 | 50.0 | 62.6 | 18.6 | *5.4 | 61.2 | 13.2 | 1,826 | 14.3 |
| South Atlantic | 9,182 | 32.7 | 6.88 | 40.6 | 54.1 | 10.2 | *2.7 | 75.7 | 11.9 | 3,052 | 10.9 |
| East South Central | 3,351 | 31.0 | 5.70 | 27.9 | 40.3 | *7.9 | ... | 83.7 | *9.8 | 1,064 | 9.9 |
| West South Central | 5,499 | 31.3 | 6.66 | 34.3 | 48.7 | 8.7 | 12.6 | 79.8 | 10.0 | 1,654 | 9.4 |
| Mountain | 2,686 | 31.9 | 6.05 | 40.7 | 51.2 | *9.5 | 16.1 | 68.6 | 16.3 | 875 | 10.4 |
| Pacific | 8,451 | 34.7 | 6.74 | 43.7 | 52.3 | 8.3 | 23.4 | 64.9 | 9.0 | 1,868 | 7.7 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

Table 64. Primary Residential Participants Maintaining Natural Areas and Plantings and Visiting Public Parks, by Region: 1980

| Region of residence | Maintain natural areas | | Maintain plantings | | Visit public parks | |
|---------------------|------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|
| | Number | Percent of population | Number | Percent of population | Number | Percent of population |
| Total | 10,146 | 6.0 | 12,476 | 7.3 | 13,477 | 7.9 |
| New England | 887 | 9.5 | 895 | 9.6 | 886 | 9.5 |
| Middle Atlantic | 1,615 | 5.8 | 1,799 | 6.5 | 2,374 | 8.5 |
| East North Central | 2,295 | 7.5 | 2,683 | 8.7 | 2,856 | 9.3 |
| West North Central | 1,055 | 8.3 | 1,264 | 9.9 | 1,444 | 11.3 |
| South Atlantic | 1,348 | 4.8 | 1,795 | 6.4 | 1,336 | 4.8 |
| East South Central | 710 | 6.6 | 522 | 4.8 | *233 | *2.2 |
| West South Central | 696 | 4.0 | 851 | 4.9 | 874 | 5.0 |
| Mountain | 403 | 4.8 | 643 | 7.6 | 592 | 7.0 |
| Pacific | 1,136 | 4.7 | 2,024 | 8.3 | 2,882 | 11.8 |

* Estimate based on a small sample size.

Table 65. Equipment Expenditures and Ownership by Participants in Nonconsumptive Activities, by Type of Equipment: 1980

(U.S. population 16 years old and older. Numbers in thousands. Excludes expenditures outside of United States)

| Type of equipment | Purchased | | | | | | | | | | | |
|---|----------------------|--|--|----------------------|--|-------------------------------|--------------------|---------------------------------------|--------------------------|--|-----------------------------------|-----------------------------|
| | Total | | Purchased primarily for nonconsumptive use | | | | Owned | | Available | | Primarily for non-consumptive use | |
| | Spenders (thousands) | Percent of total non-consumptive users | Amount (thousands of dollars) | Spenders (thousands) | Percent of total non-consumptive users | Amount (thousands of dollars) | Owners (thousands) | Percent of total nonconsumptive users | Participants (thousands) | Percent of total non-consumptive users | Participants (thousands) | Percent of total using item |
| Total | 43,653 | 46.8 | 10,652,646 | 39,169 | 42.0 | 2,609,960 | 56,616 | 60.7 | 28,785 | 30.9 | 21,948 | 30.2 |
| Field guides | 1,787 | 1.9 | 17,960 | 1,787 | 1.9 | 17,960 | 6,913 | 7.4 | 2,307 | 2.5 | (NA) | (NA) |
| Binoculars | 2,471 | 2.6 | 133,020 | 1,417 | 1.5 | 79,341 | 25,876 | 27.7 | 8,865 | 9.5 | 15,852 | 42.9 |
| Spotting scopes | *168 | 0.2 | *8,291 | ... | ... | ... | 2,384 | 2.6 | 1,521 | 1.6 | 1,621 | 39.8 |
| Cameras | 4,367 | 4.7 | 701,773 | 1,090 | 1.2 | 193,450 | 32,446 | 34.8 | 7,925 | 8.5 | 5,087 | 11.7 |
| Special lenses | 1,524 | 1.6 | 247,205 | 625 | 0.7 | 110,476 | 5,535 | 5.9 | 2,499 | 2.7 | 2,602 | 27.8 |
| Other photographic equipment | 1,404 | 1.5 | 123,556 | 424 | 0.5 | 43,410 | 5,081 | 5.4 | 2,196 | 2.4 | 1,627 | 19.1 |
| Film and developing | 16,063 | 17.2 | 739,495 | 16,063 | 17.2 | 739,495 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Satchels, day packs, and carrying cases | 2,203 | 2.4 | 49,877 | 949 | 1.0 | 20,768 | 8,275 | 8.9 | 2,471 | 2.6 | 3,298 | 26.4 |
| Special clothing | 2,812 | 3.0 | 172,498 | 1,525 | 1.6 | 98,501 | 8,321 | 8.9 | 2,021 | 2.2 | 4,200 | 34.2 |
| Birdseed | 25,959 | 27.8 | 517,053 | 25,959 | 27.8 | 517,053 | (NA) | (NA) | 4,064 | 4.4 | (NA) | (NA) |
| Birdfeeders | 5,969 | 6.4 | 54,741 | 5,969 | 6.4 | 54,741 | 15,934 | 17.1 | 3,377 | 3.6 | (NA) | (NA) |
| Birdhouses or nest boxes | 1,652 | 1.8 | 20,237 | 1,652 | 1.8 | 20,237 | 8,286 | 8.9 | 1,729 | 1.9 | (NA) | (NA) |
| Birdbaths | 1,916 | 2.1 | 25,899 | 1,916 | 2.1 | 25,899 | 8,840 | 9.5 | 1,561 | 1.7 | (NA) | (NA) |
| Tents and tarps | 2,819 | 3.0 | 208,323 | 637 | 0.7 | 44,075 | 14,537 | 15.6 | 9,045 | 9.7 | 3,413 | 13.4 |
| Frame packs and backpacking equipment | 1,727 | 1.9 | 88,478 | 533 | 0.6 | 38,578 | 10,711 | 11.5 | 4,721 | 5.1 | 2,983 | 18.4 |
| Other camping equipment | 4,362 | 4.7 | 337,150 | 968 | 1.0 | 60,901 | 17,582 | 18.9 | 8,139 | 8.7 | 3,651 | 13.2 |
| Snowshoes and skis | 1,675 | 1.8 | 245,960 | *314 | 0.3 | *26,710 | 5,768 | 6.2 | 2,512 | 2.7 | 703 | 7.5 |
| Travel or tent trailer | 458 | 0.5 | 864,244 | ... | ... | ... | 3,338 | 3.6 | 3,396 | 3.6 | 680 | 9.6 |
| Pickup camper or van | 1,335 | 1.4 | 4,734,384 | *191 | 0.2 | *471,502 | 6,465 | 6.9 | 5,080 | 5.4 | 938 | 7.6 |
| Motorhome | *235 | 0.3 | *1,324,266 | ... | ... | ... | 1,120 | 1.2 | 2,043 | 2.2 | *275 | 8.3 |
| Other | 1,293 | 1.4 | 38,239 | 641 | 0.7 | 26,502 | 523 | 0.6 | *244 | 0.3 | 1,188 | 66.5 |

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

NA Not available.

Table 66. Travel Expenditures by Primary Nonresidential Participants and Equipment Expenditures by Participants in Nonconsumptive Activities, by Region: 1980

(U.S. population 16 years old and older. Excludes expenditures outside of United States.)

| Region of residence | Travel ¹ | | | | Equipment | | | | | | | |
|---------------------|-------------------------|--|-------------------------------------|---|------------------------------|---|-------------------------------------|--|----------------------------------|---|-------------------------------------|--|
| | | | | | Total | | | | Primarily for nonconsumptive use | | | |
| | Spenders (thousands) | Percent of primary nonresi- dential partici- pants in region | Amount (thousands of dollars) | Average per primary nonresi- dential partici- pant (dollars) | Spenders (thou- sands) | Percent of noncon- sumptive users in region | Amount (thousands of dollars) | Percent of total expendi- tures | Spenders (thou- sands) | Percent of noncon- sumptive users in region | Amount (thousands of dollars) | Percent of total expendi- tures |
| Total | 25,675 | 89.1 | 4,015,952 | 139.33 | 43,653 | 46.8 | 10,652,646 | 100.0 | 39,169 | 42.0 | 2,609,960 | 100.0 |
| New England | 1,503 | 90.7 | 212,825 | 128.44 | 2,840 | 52.1 | 242,732 | 2.3 | 2,568 | 47.1 | 147,029 | 5.6 |
| Middle Atlantic | 3,535 | 86.0 | 530,776 | 129.13 | 6,206 | 45.9 | 1,275,807 | 12.0 | 5,717 | 42.3 | 350,558 | 13.4 |
| East North Central | 5,447 | 89.3 | 849,260 | 139.25 | 9,992 | 48.6 | 1,622,271 | 15.2 | 8,973 | 43.6 | 359,792 | 13.8 |
| West North Central | 2,589 | 86.2 | 183,603 | 61.19 | 3,406 | 41.8 | 769,584 | 7.2 | 3,027 | 37.1 | 132,954 | 5.1 |
| South Atlantic | 3,288 | 88.0 | 558,203 | 149.30 | 5,904 | 46.4 | 911,674 | 8.6 | 5,511 | 43.3 | 292,766 | 11.2 |
| East South Central | 994 | 84.7 | 92,742 | 79.03 | 1,779 | 37.4 | 815,047 | 7.7 | 1,597 | 33.6 | 330,522 | 12.7 |
| West South Central | 1,711 | 92.9 | 267,526 | 145.21 | 3,404 | 41.0 | 890,876 | 8.4 | 3,068 | 37.0 | 204,223 | 7.8 |
| Mountain | 1,901 | 89.5 | 307,261 | 144.61 | 2,357 | 44.3 | 303,301 | 2.8 | 1,959 | 36.9 | 80,973 | 3.1 |
| Pacific | 4,709 | 92.8 | 1,013,757 | 199.70 | 7,767 | 53.6 | 3,821,353 | 35.9 | 6,749 | 46.6 | 711,144 | 27.2 |

¹ Includes food and drink, lodging, transportation, guide fees, pack trip or package fees, land-use fees, and equipment rental.

Table 67. Membership in Wildlife-Related Organizations and Publications Readership by Participants in Nonconsumptive Activities, by Region: 1980

(U.S. population 16 years old and older. Numbers in thousands. Percents based on nonconsumptive users in region.)

| Region of residence | Wildlife-related organizations | | | | | | Publication readership | | | | |
|---------------------|--------------------------------|---------|----------|---------|--------|---------|------------------------|---------|----------------------------------|----------------|--------|
| | Total | | National | | Local | | Participants | | Frequency ¹ (percent) | | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Fre- quently | Some- times | Rarely |
| Total | 16,302 | 17.5 | 14,775 | 15.8 | 3,180 | 3.4 | 47,865 | 51.3 | 44.0 | 33.4 | 22.1 |
| New England | 1,204 | 22.1 | 1,116 | 20.5 | *264 | 4.8 | 2,915 | 53.5 | 46.4 | 39.8 | 13.8 |
| Middle Atlantic | 2,424 | 17.9 | 2,096 | 15.5 | 605 | 4.5 | 6,655 | 49.2 | 49.1 | 33.4 | 16.0 |
| East North Central | 3,194 | 15.5 | 2,832 | 13.8 | 597 | 2.9 | 10,032 | 48.8 | 38.9 | 34.0 | 27.1 |
| West North Central | 1,289 | 15.8 | 1,194 | 14.7 | *210 | 2.6 | 4,475 | 54.9 | 47.1 | 34.3 | 18.2 |
| South Atlantic | 1,953 | 15.3 | 1,881 | 14.8 | *318 | 2.5 | 6,527 | 51.3 | 44.0 | 34.4 | 21.3 |
| East South Central | 577 | 12.1 | 429 | 9.0 | *223 | 4.7 | 2,382 | 50.1 | 41.3 | 37.5 | 20.4 |
| West South Central | 1,146 | 13.8 | 1,085 | 13.1 | *166 | 2.0 | 3,995 | 48.1 | 41.6 | 31.9 | 24.9 |
| Mountain | 1,121 | 21.1 | 1,012 | 19.0 | *288 | 5.4 | 2,924 | 55.0 | 45.5 | 27.9 | 26.1 |
| Pacific | 3,395 | 23.4 | 3,131 | 21.6 | 509 | 3.5 | 7,960 | 55.0 | 44.7 | 30.7 | 24.6 |

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

¹ Frequently: about once a month. Sometimes: about six times in the year. Rarely: less than six times in the year.**Table 68. Number of Birds Identifiable by Sight and Sound and Life Bird Lists, by Region: 1980**

(U.S. population 16 years old and older. Numbers in thousands. Percents based on regional population.)

| Region of residence | Identification ¹ | | | | | | Life bird list | |
|---------------------|-----------------------------|----------------------------------|--------|----------------------------------|------------|----------------------------------|----------------|--|
| | 1-20 | | 21-40 | | 41 or more | | Number | Percent of bird observers ² |
| | Number | Percent of non-consumptive users | Number | Percent of non-consumptive users | Number | Percent of non-consumptive users | | |
| Total | 69,107 | 74.1 | 13,341 | 14.3 | 5,060 | 5.4 | 2,446 | 4.0 |
| New England | 3,908 | 71.7 | 926 | 17.0 | *326 | 6.0 | *243 | 6.3 |
| Middle Atlantic | 10,345 | 76.6 | 1,840 | 13.6 | 693 | 5.1 | 591 | 6.7 |
| East North Central | 16,156 | 78.6 | 2,484 | 12.1 | 820 | 4.0 | 511 | 3.7 |
| West North Central | 5,728 | 70.3 | 1,511 | 18.5 | 559 | 6.9 | ... | ... |
| South Atlantic | 9,538 | 74.9 | 1,532 | 12.0 | 680 | 5.3 | *347 | 4.0 |
| East South Central | 3,427 | 72.1 | 723 | 15.2 | *193 | 4.1 | ... | ... |
| West South Central | 5,678 | 68.4 | 1,307 | 15.7 | *500 | 6.0 | *196 | 3.9 |
| Mountain | 3,371 | 63.4 | 882 | 16.6 | *297 | 5.6 | ... | ... |
| Pacific | 10,956 | 75.6 | 2,137 | 14.8 | 992 | 6.8 | *286 | 3.0 |

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

* Estimate based on a small sample size.

... Sample size too small to report data reliably.

¹ 1,253 thousand participants indicated that they could not identify any birds, 1.3 percent of total nonconsumptive users.² Observed birds on a primary-purpose trip or took special interest in birds around the home.

Table 69. Selected Characteristics of Participants in Primary Nonresidential Activities: 1980

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

| Characteristic | Total population | | Primary participants | | Total nonresidential | | | Observe | | |
|-----------------------------|------------------|---------|----------------------|-----------------------|----------------------|-----------------------|---------|---------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Total persons | 169,942 | 100.0 | 83,173 | 48.9 | 28,822 | 17.0 | 100.0 | 28,682 | 16.9 | 100.0 |
| Population density: | | | | | | | | | | |
| Big cities | 22,968 | 13.5 | 8,131 | 35.4 | 2,447 | 10.7 | 8.5 | 2,447 | 10.7 | 8.5 |
| Small cities | 71,041 | 41.8 | 36,774 | 51.8 | 12,729 | 17.9 | 44.2 | 12,679 | 17.8 | 44.2 |
| Towns and rural areas | 75,934 | 44.7 | 38,268 | 50.4 | 13,646 | 18.0 | 47.3 | 13,556 | 17.9 | 47.3 |
| Census geographic division: | | | | | | | | | | |
| New England | 9,362 | 5.5 | 5,047 | 53.9 | 1,657 | 17.7 | 5.7 | 1,657 | 17.7 | 5.8 |
| Middle Atlantic | 27,867 | 16.4 | 12,348 | 44.3 | 4,111 | 14.8 | 14.3 | 4,090 | 14.7 | 14.3 |
| East North Central | 30,791 | 18.1 | 18,539 | 60.2 | 6,099 | 19.8 | 21.2 | 6,069 | 19.7 | 21.2 |
| West North Central | 12,774 | 7.5 | 7,357 | 57.6 | 3,000 | 23.5 | 10.4 | 3,000 | 23.5 | 10.5 |
| South Atlantic | 28,066 | 16.5 | 11,562 | 41.2 | 3,739 | 13.3 | 13.0 | 3,739 | 13.3 | 13.1 |
| East South Central | 10,792 | 6.4 | 4,294 | 39.8 | 1,173 | 10.9 | 4.1 | 1,173 | 10.9 | 4.1 |
| West South Central | 17,550 | 10.3 | 7,105 | 40.5 | 1,842 | 10.5 | 6.4 | 1,828 | 10.4 | 6.4 |
| Mountain | 8,415 | 5.0 | 4,574 | 54.4 | 2,125 | 25.2 | 7.4 | 2,078 | 24.7 | 7.2 |
| Pacific | 24,326 | 14.3 | 12,347 | 50.8 | 5,076 | 20.9 | 17.6 | 5,048 | 20.7 | 17.6 |
| Sex and age group: | | | | | | | | | | |
| Both sexes, total | 169,942 | 100.0 | 83,173 | 48.9 | 28,822 | 17.0 | 100.0 | 28,682 | 16.9 | 100.0 |
| 16-17 years | 8,612 | 5.1 | 3,346 | 38.9 | 1,383 | 16.1 | 4.8 | 1,383 | 16.1 | 4.8 |
| 18-24 years | 28,546 | 16.8 | 11,976 | 42.0 | 5,960 | 20.9 | 20.7 | 5,945 | 20.8 | 20.7 |
| 25-34 years | 37,742 | 22.2 | 21,355 | 56.6 | 9,236 | 24.5 | 32.0 | 9,208 | 24.4 | 32.1 |
| 35-44 years | 26,117 | 15.4 | 13,763 | 52.7 | 4,796 | 18.4 | 16.6 | 4,778 | 18.3 | 16.7 |
| 45-54 years | 22,555 | 13.3 | 10,906 | 48.4 | 3,340 | 14.8 | 11.6 | 3,326 | 14.7 | 11.6 |
| 55-64 years | 21,723 | 12.8 | 10,801 | 49.7 | 2,482 | 11.4 | 8.6 | 2,461 | 11.3 | 8.6 |
| 65 years and older | 24,648 | 14.5 | 11,025 | 44.7 | 1,625 | 6.6 | 5.6 | 1,582 | 6.4 | 5.5 |
| Male, total | 80,753 | 47.5 | 39,152 | 48.5 | 14,911 | 18.5 | 100.0 | 14,827 | 18.4 | 100.0 |
| 16-17 years | 4,442 | 2.6 | 1,965 | 44.2 | 837 | 18.8 | 5.6 | 837 | 18.8 | 5.6 |
| 18-24 years | 13,916 | 8.2 | 5,904 | 42.4 | 3,106 | 22.3 | 20.8 | 3,090 | 22.2 | 20.8 |
| 25-34 years | 18,527 | 10.9 | 9,931 | 53.6 | 4,715 | 25.5 | 31.6 | 4,701 | 25.4 | 31.7 |
| 35-44 years | 12,750 | 7.5 | 6,646 | 52.1 | 2,500 | 19.6 | 16.8 | 2,481 | 19.5 | 16.7 |
| 45-54 years | 10,877 | 6.4 | 4,919 | 45.2 | 1,706 | 15.7 | 11.4 | 1,706 | 15.7 | 11.5 |
| 55-64 years | 10,145 | 6.0 | 4,957 | 48.9 | 1,334 | 13.2 | 8.9 | 1,314 | 13.0 | 8.9 |
| 65 years and older | 10,095 | 5.9 | 4,830 | 47.8 | 712 | 7.1 | 4.8 | 698 | 6.9 | 4.7 |
| Female, total | 89,190 | 52.5 | 44,021 | 49.4 | 13,912 | 15.6 | 100.0 | 13,855 | 15.5 | 100.0 |
| 16-17 years | 4,169 | 2.5 | 1,382 | 33.1 | 546 | 13.1 | 3.9 | 546 | 13.1 | 3.9 |
| 18-24 years | 14,630 | 8.6 | 6,072 | 41.5 | 2,854 | 19.5 | 20.5 | 2,854 | 19.5 | 20.6 |
| 25-34 years | 19,215 | 11.3 | 11,424 | 59.5 | 4,521 | 23.5 | 32.5 | 4,507 | 23.5 | 32.5 |
| 35-44 years | 13,367 | 7.9 | 7,118 | 53.2 | 2,296 | 17.2 | 16.5 | 2,296 | 17.2 | 16.6 |
| 45-54 years | 11,678 | 6.9 | 5,987 | 51.3 | 1,634 | 14.0 | 11.7 | 1,619 | 13.9 | 11.7 |
| 55-64 years | 11,577 | 6.8 | 5,844 | 50.5 | 1,147 | 9.9 | 8.2 | 1,147 | 9.9 | 8.3 |
| 65 years and older | 14,553 | 8.6 | 6,195 | 42.6 | 913 | 6.3 | 6.6 | 884 | 6.1 | 6.4 |

(See footnotes at end of table.)

Table 69. Selected Characteristics of Participants in Primary Nonresidential Activities: 1980
(Continued)

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

| Characteristic | Total population | | Primary participants | | Total nonresidential | | | Observe | | |
|--|------------------|---------|----------------------|-----------------------|----------------------|-----------------------|---------|---------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Race: | | | | | | | | | | |
| White | 146,999 | 86.5 | 77,163 | 52.5 | 27,347 | 18.6 | 94.9 | 27,246 | 18.5 | 95.0 |
| Black | 18,175 | 10.7 | 4,693 | 25.8 | 961 | 5.3 | 3.3 | 941 | 5.2 | 3.3 |
| All others | 4,768 | 2.8 | 1,316 | 27.6 | 514 | 10.8 | 1.8 | 495 | 10.4 | 1.7 |
| Annual household income: | | | | | | | | | | |
| Under \$5,000 | 12,997 | 7.6 | 4,836 | 37.2 | 1,495 | 11.5 | 5.2 | 1,495 | 11.5 | 5.2 |
| \$5,000-\$9,999 | 22,876 | 13.5 | 9,408 | 41.1 | 2,327 | 10.2 | 8.1 | 2,299 | 10.0 | 8.0 |
| \$10,000-\$14,999 | 21,210 | 12.5 | 10,278 | 48.5 | 3,802 | 17.9 | 13.2 | 3,788 | 17.9 | 13.2 |
| \$15,000-\$19,999 | 19,310 | 11.4 | 9,797 | 50.7 | 3,447 | 17.9 | 12.0 | 3,433 | 17.8 | 12.0 |
| \$20,000-\$24,999 | 21,966 | 12.9 | 13,180 | 60.0 | 4,999 | 22.8 | 17.3 | 4,980 | 22.7 | 17.4 |
| \$25,000-\$29,999 | 16,379 | 9.6 | 8,968 | 54.8 | 3,572 | 21.8 | 12.4 | 3,558 | 21.7 | 12.4 |
| \$30,000-\$39,999 | 13,764 | 8.1 | 8,506 | 61.8 | 3,278 | 23.8 | 11.4 | 3,243 | 23.6 | 11.3 |
| \$40,000-\$49,999 | 5,664 | 3.3 | 3,011 | 53.2 | 1,034 | 18.3 | 3.6 | 1,034 | 18.3 | 3.6 |
| \$50,000 or more | 5,854 | 3.4 | 3,174 | 54.2 | 1,171 | 20.0 | 4.1 | 1,171 | 20.0 | 4.1 |
| Not reported | 29,923 | 17.6 | 12,015 | 40.2 | 3,697 | 12.4 | 12.8 | 3,681 | 12.3 | 12.8 |
| Education: | | | | | | | | | | |
| None | 1,452 | 0.9 | *344 | 23.7 | ... | ... | ... | ... | ... | ... |
| 1-7 years | 12,453 | 7.3 | 3,952 | 31.7 | 865 | 6.9 | 3.0 | 846 | 6.8 | 2.9 |
| 8 years | 11,401 | 6.7 | 3,895 | 34.2 | 756 | 6.6 | 2.6 | 756 | 6.6 | 2.6 |
| 9-11 years | 28,555 | 16.8 | 12,006 | 42.0 | 3,543 | 12.4 | 12.3 | 3,543 | 12.4 | 12.3 |
| 12 years | 62,538 | 36.8 | 30,788 | 49.2 | 10,580 | 16.9 | 36.7 | 10,517 | 16.8 | 36.7 |
| 1-3 years college | 26,250 | 15.4 | 15,186 | 57.9 | 6,100 | 23.2 | 21.2 | 6,070 | 23.1 | 21.2 |
| 4 years college | 13,936 | 8.2 | 8,354 | 59.9 | 3,359 | 24.1 | 11.7 | 3,359 | 24.1 | 11.7 |
| 5 or more years college | 13,359 | 7.9 | 8,647 | 64.7 | 3,588 | 26.9 | 12.4 | 3,560 | 26.6 | 12.4 |
| Occupation ¹ : | | | | | | | | | | |
| Civilian population | 165,633 | 97.5 | 82,694 | 49.9 | 28,625 | 17.3 | 100.0 | 28,485 | 17.2 | 100.0 |
| Civilian labor force | 104,808 | 61.7 | 51,392 | 49.0 | 20,268 | 19.3 | 70.8 | 20,171 | 19.2 | 70.8 |
| White collar workers | | | | | | | | | | |
| Professional and technical | 16,161 | 9.5 | 10,450 | 64.7 | 4,478 | 27.7 | 15.6 | 4,478 | 27.7 | 15.7 |
| Farmers | 1,378 | 0.8 | 621 | 45.1 | *206 | 14.9 | 0.1 | *206 | 14.9 | 1.0 |
| Managers and proprietors | 11,385 | 6.7 | 6,447 | 56.6 | 2,653 | 23.3 | 9.3 | 2,637 | 23.2 | 9.3 |
| Clerical | 18,089 | 10.6 | 9,144 | 50.6 | 3,216 | 17.8 | 11.2 | 3,216 | 17.8 | 11.3 |
| Sales | 6,146 | 3.6 | 3,573 | 58.1 | 1,334 | 21.7 | 4.7 | 1,334 | 21.7 | 4.7 |
| Blue collar workers | | | | | | | | | | |
| Craftsmen | 12,027 | 7.1 | 6,389 | 53.1 | 2,789 | 23.2 | 9.7 | 2,774 | 23.1 | 9.7 |
| Operatives | 13,487 | 7.9 | 5,612 | 41.6 | 2,059 | 15.3 | 7.2 | 2,038 | 15.1 | 7.2 |
| Private households | 1,071 | 0.6 | 463 | 43.2 | *195 | 18.2 | 6.8 | *195 | 18.2 | 1.0 |
| Other service | 11,872 | 7.0 | 5,366 | 45.2 | 2,028 | 17.1 | 7.1 | 1,999 | 16.8 | 7.0 |
| Farm laborers | 903 | 0.5 | 428 | 47.4 | *247 | 27.4 | 0.1 | *228 | 25.2 | 1.0 |
| Other laborers | 3,865 | 2.3 | 1,728 | 44.7 | 687 | 17.8 | 2.4 | 687 | 17.8 | 2.4 |
| Civilian population not in labor force | 60,819 | 35.8 | 30,962 | 50.9 | 8,268 | 13.6 | 28.9 | 8,240 | 13.5 | 28.9 |

(See footnotes at end of table.)

Table 70. Selected Characteristics of Participants in Primary Residential Activities: 1980 (Continued)

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

| Characteristic | Photograph | | | Feed birds | | | Characteristic | Photograph | | | Feed birds | | |
|-----------------------------|------------|-----------------------|---------|------------|-----------------------|---------|--|------------|-----------------------|---------|------------|-----------------------|---------|
| | Number | Percent of population | Percent | Number | Percent of population | Percent | | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Total persons | 12,401 | 7.3 | 100.0 | 62,463 | 36.8 | 100.0 | Race: | | | | | | |
| Population density: | | | | | | | White | 11,726 | 8.0 | 94.6 | 58,145 | 39.6 | 93.1 |
| Big cities | 1,218 | 5.3 | 9.8 | 5,949 | 25.9 | 9.5 | Black | 460 | 2.5 | 3.7 | 3,468 | 19.1 | 5.6 |
| Small cities | 5,520 | 7.8 | 44.5 | 27,570 | 38.8 | 44.1 | All others | *214 | 4.5 | 1.7 | 850 | 17.8 | 1.4 |
| Towns and rural areas | 5,662 | 7.5 | 45.7 | 28,944 | 38.1 | 46.3 | Annual household income: | | | | | | |
| Census geographic division: | | | | | | | Under \$5,000 | 484 | 3.7 | 3.9 | 3,699 | 28.5 | 5.9 |
| New England | 885 | 9.4 | 7.1 | 4,200 | 44.9 | 6.7 | \$5,000-\$9,999 | 932 | 4.1 | 7.5 | 7,695 | 33.6 | 12.3 |
| Middle Atlantic | 1,806 | 6.5 | 14.6 | 9,429 | 33.8 | 15.1 | \$10,000-\$14,999 | 1,410 | 6.6 | 11.4 | 7,333 | 34.6 | 11.7 |
| East North Central | 2,631 | 8.5 | 21.2 | 14,757 | 47.9 | 23.6 | \$15,000-\$19,999 | 1,559 | 8.1 | 12.6 | 7,433 | 38.5 | 11.9 |
| West North Central | 1,086 | 8.5 | 8.8 | 4,908 | 38.4 | 7.9 | \$20,000-\$24,999 | 1,849 | 8.4 | 14.9 | 9,722 | 44.3 | 15.6 |
| South Atlantic | 1,687 | 6.0 | 13.6 | 9,182 | 32.7 | 14.7 | \$25,000-\$29,999 | 1,622 | 9.9 | 13.1 | 6,653 | 40.6 | 10.7 |
| East South Central | 447 | 4.1 | 3.6 | 3,351 | 31.0 | 5.4 | \$30,000-\$39,999 | 1,813 | 13.2 | 14.6 | 6,270 | 45.5 | 10.0 |
| West South Central | 979 | 5.6 | 7.9 | 5,499 | 31.3 | 8.8 | \$40,000-\$49,999 | 543 | 9.6 | 4.4 | 2,283 | 40.3 | 3.7 |
| Mountain | 817 | 9.7 | 6.6 | 2,686 | 31.9 | 4.3 | \$50,000 or more | 672 | 11.5 | 5.4 | 2,184 | 37.3 | 3.5 |
| Pacific | 2,062 | 8.5 | 16.6 | 8,451 | 34.7 | 13.5 | Not reported | 1,517 | 5.1 | 12.2 | 9,193 | 30.7 | 14.7 |
| Sex and age group: | | | | | | | Education: | | | | | | |
| Both sexes, total | 12,401 | 7.3 | 100.0 | 62,463 | 36.8 | 100.0 | None | ... | ... | ... | *266 | 18.3 | 0.4 |
| 16-17 years | 827 | 9.6 | 6.7 | 2,052 | 23.8 | 3.3 | 1-7 years | *238 | 1.9 | 1.9 | 3,267 | 26.2 | 5.2 |
| 18-24 years | 2,140 | 7.5 | 17.3 | 7,561 | 26.5 | 12.1 | 8 years | *227 | 2.0 | 1.8 | 3,251 | 28.5 | 5.2 |
| 25-34 years | 4,061 | 10.8 | 32.7 | 15,209 | 40.3 | 24.3 | 9-11 years | 1,493 | 5.2 | 12.0 | 9,278 | 32.5 | 14.9 |
| 35-44 years | 2,040 | 7.8 | 16.5 | 10,102 | 38.7 | 16.2 | 12 years | 3,915 | 6.3 | 31.6 | 23,727 | 37.9 | 38.0 |
| 45-54 years | 1,458 | 6.5 | 11.8 | 8,523 | 37.8 | 13.6 | 1-3 years college | 3,175 | 12.1 | 25.6 | 10,739 | 40.9 | 17.2 |
| 55-64 years | 1,103 | 5.1 | 8.9 | 9,434 | 43.4 | 15.1 | 4 years college | 1,666 | 12.0 | 13.4 | 6,268 | 45.0 | 10.0 |
| 65 years and older | 772 | 3.1 | 6.2 | 9,583 | 38.9 | 15.3 | 5 or more years college | 1,671 | 12.5 | 13.7 | 5,666 | 42.4 | 9.1 |
| Male, total | 6,333 | 7.8 | 51.1 | 27,071 | 33.5 | 43.3 | Occupation ¹ : | | | | | | |
| 16-17 years | 463 | 10.4 | 3.7 | 1,158 | 26.1 | 1.9 | Civilian population | 12,288 | 74.2 | 100.0 | 62,173 | 37.5 | 100.0 |
| 18-24 years | 1,035 | 7.4 | 8.3 | 3,392 | 24.4 | 5.4 | Civilian labor force | 8,751 | 8.3 | 71.2 | 36,530 | 34.9 | 58.8 |
| 25-34 years | 2,054 | 11.1 | 16.6 | 6,415 | 34.6 | 10.3 | White collar workers | | | | | | |
| 35-44 years | 1,023 | 8.0 | 8.2 | 4,320 | 33.9 | 6.9 | Professional and technical | 2,235 | 13.8 | 18.2 | 6,820 | 42.2 | 11.0 |
| 45-54 years | 779 | 7.2 | 6.3 | 3,423 | 31.5 | 5.5 | Farmers | ... | ... | ... | *370 | 26.9 | 0.6 |
| 55-64 years | 606 | 6.0 | 4.9 | 4,221 | 41.6 | 6.8 | Managers and proprietors | 1,260 | 11.1 | 10.3 | 4,653 | 40.9 | 7.5 |
| 65 years and older | *373 | 3.7 | 3.0 | 4,142 | 41.0 | 6.6 | Clerical | 1,493 | 8.3 | 12.2 | 6,874 | 38.0 | 11.1 |
| Female, total | 6,067 | 6.8 | 48.9 | 35,392 | 39.7 | 56.7 | Sales | 657 | 10.7 | 5.3 | 2,593 | 42.2 | 4.2 |
| 16-17 years | *363 | 8.7 | 2.9 | 894 | 21.4 | 1.4 | Blue collar workers | | | | | | |
| 18-24 years | 1,105 | 7.6 | 8.9 | 4,169 | 28.5 | 6.7 | Craftsmen | 1,092 | 9.1 | 8.9 | 4,379 | 36.4 | 7.0 |
| 25-34 years | 2,006 | 10.4 | 16.2 | 8,793 | 45.8 | 14.1 | Operatives | 556 | 4.1 | 4.5 | 4,212 | 31.2 | 6.8 |
| 35-44 years | 1,018 | 7.6 | 8.2 | 5,782 | 43.3 | 9.3 | Private households | ... | ... | ... | 387 | 36.1 | 0.6 |
| 45-54 years | 679 | 5.8 | 5.5 | 5,100 | 43.7 | 8.2 | Other service | 833 | 7.0 | 6.8 | 4,192 | 35.3 | 6.7 |
| 55-64 years | 497 | 4.3 | 4.0 | 5,212 | 45.0 | 8.3 | Farm laborers | ... | ... | ... | *257 | 28.5 | 0.4 |
| 65 years and older | 399 | 2.7 | 3.2 | 5,441 | 37.4 | 8.7 | Other laborers | *340 | 8.8 | 2.8 | 1,083 | 28.0 | 1.7 |
| | | | | | | | Civilian population not in labor force | 3,522 | 5.8 | 28.7 | 25,380 | 41.7 | 40.8 |

Note: Detail does not add to total because of multiple responses or nonresponse. * Estimate based on a small sample size. ... Sample size too small to report data reliably.

¹ Total population figures for occupation categories from February 1981 Current Population Survey (CPS) data because occupation questions were not asked on the screening questionnaire. These CPS figures are based on 1970 census results.

Table 70. Selected Characteristics of Participants in Primary Residential Activities: 1980

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

| Characteristic | Total population | | Primary participants | | Total residential | | | Observe | | |
|-----------------------------|------------------|---------|----------------------|-----------------------|-------------------|-----------------------|---------|---------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Total persons | 169,942 | 100.0 | 83,173 | 48.9 | 79,670 | 46.9 | 100.0 | 55,871 | 32.9 | 100.0 |
| Population density: | | | | | | | | | | |
| Big cities | 22,968 | 13.5 | 8,131 | 35.4 | 7,699 | 33.5 | 9.7 | 4,841 | 21.1 | 86.6 |
| Small cities | 71,041 | 41.8 | 36,774 | 51.8 | 35,358 | 49.8 | 44.4 | 24,410 | 34.4 | 43.7 |
| Towns and rural areas | 75,934 | 44.7 | 38,268 | 50.4 | 36,613 | 48.2 | 46.0 | 26,620 | 35.1 | 47.6 |
| Census geographic division: | | | | | | | | | | |
| New England | 9,362 | 5.5 | 5,047 | 53.9 | 4,952 | 52.9 | 6.2 | 3,590 | 38.4 | 6.4 |
| Middle Atlantic | 27,867 | 16.4 | 12,348 | 44.3 | 11,872 | 42.6 | 14.9 | 8,059 | 28.9 | 14.4 |
| East North Central | 30,791 | 18.1 | 18,539 | 60.2 | 17,936 | 58.3 | 22.5 | 12,455 | 40.5 | 22.3 |
| West North Central | 12,774 | 7.5 | 7,357 | 57.6 | 6,783 | 53.1 | 8.5 | 4,894 | 38.3 | 8.8 |
| South Atlantic | 28,066 | 16.5 | 11,562 | 41.2 | 11,270 | 40.2 | 14.1 | 7,886 | 28.1 | 14.1 |
| East South Central | 10,792 | 6.4 | 4,294 | 39.8 | 4,117 | 38.2 | 5.2 | 2,637 | 24.4 | 4.7 |
| West South Central | 17,550 | 10.3 | 7,105 | 40.5 | 6,837 | 39.0 | 8.6 | 4,849 | 27.6 | 8.7 |
| Mountain | 8,415 | 5.0 | 4,574 | 54.4 | 4,133 | 49.1 | 5.2 | 2,989 | 35.5 | 5.3 |
| Pacific | 24,326 | 14.3 | 12,347 | 50.8 | 11,770 | 48.4 | 14.8 | 8,510 | 35.0 | 15.2 |
| Sex and age group: | | | | | | | | | | |
| Both sexes, total | 169,942 | 100.0 | 83,173 | 48.9 | 79,670 | 46.9 | 100.0 | 55,871 | 32.9 | 100.0 |
| 16-17 years | 8,612 | 5.1 | 3,346 | 38.9 | 3,229 | 37.5 | 4.1 | 2,032 | 23.6 | 3.6 |
| 18-24 years | 28,546 | 16.8 | 11,976 | 42.0 | 10,967 | 38.4 | 13.8 | 7,129 | 25.0 | 12.8 |
| 25-34 years | 37,742 | 22.2 | 21,355 | 56.6 | 20,154 | 53.4 | 25.3 | 14,202 | 37.6 | 25.4 |
| 35-44 years | 26,117 | 15.4 | 13,763 | 52.7 | 13,172 | 50.4 | 16.5 | 9,233 | 35.4 | 16.5 |
| 45-54 years | 22,555 | 13.3 | 10,906 | 48.4 | 10,575 | 46.9 | 13.3 | 7,683 | 34.1 | 13.8 |
| 55-64 years | 21,723 | 12.8 | 10,801 | 49.7 | 10,663 | 49.1 | 13.4 | 7,778 | 35.8 | 13.9 |
| 65 years and older | 24,648 | 14.5 | 11,025 | 44.7 | 10,909 | 44.3 | 13.7 | 7,814 | 31.7 | 14.0 |
| Male, total | 80,753 | 47.5 | 39,152 | 48.5 | 37,012 | 45.8 | 46.5 | 25,887 | 32.1 | 46.3 |
| 16-17 years | 4,442 | 2.6 | 1,965 | 44.2 | 1,879 | 42.3 | 2.4 | 1,221 | 27.5 | 2.2 |
| 18-24 years | 13,916 | 8.2 | 5,904 | 42.4 | 5,280 | 37.9 | 6.6 | 3,368 | 24.2 | 6.0 |
| 25-34 years | 18,527 | 10.9 | 9,931 | 53.6 | 9,187 | 49.6 | 11.5 | 6,356 | 34.3 | 11.4 |
| 35-44 years | 12,750 | 7.5 | 6,646 | 52.1 | 6,294 | 49.4 | 7.9 | 4,370 | 34.3 | 7.8 |
| 45-54 years | 10,877 | 6.4 | 4,919 | 45.2 | 4,691 | 43.1 | 5.9 | 3,449 | 31.7 | 6.2 |
| 55-64 years | 10,145 | 6.0 | 4,957 | 48.9 | 4,895 | 48.2 | 6.1 | 3,570 | 35.2 | 6.4 |
| 65 years and older | 10,095 | 5.9 | 4,830 | 47.8 | 4,786 | 47.4 | 6.0 | 3,554 | 35.2 | 6.4 |
| Female, total | 89,190 | 52.5 | 44,021 | 49.4 | 42,657 | 47.8 | 53.5 | 29,984 | 33.6 | 53.7 |
| 16-17 years | 4,169 | 2.5 | 1,382 | 33.1 | 1,350 | 32.4 | 1.7 | 811 | 19.5 | 14.5 |
| 18-24 years | 14,630 | 8.6 | 6,072 | 41.5 | 5,687 | 38.9 | 7.1 | 3,762 | 25.7 | 6.7 |
| 25-34 years | 19,215 | 11.3 | 11,424 | 59.5 | 10,967 | 57.1 | 13.8 | 7,847 | 40.8 | 14.0 |
| 35-44 years | 13,367 | 7.9 | 7,118 | 53.2 | 6,879 | 51.5 | 8.6 | 4,862 | 36.4 | 8.7 |
| 45-54 years | 11,678 | 6.9 | 5,987 | 51.3 | 5,884 | 50.4 | 7.4 | 4,234 | 36.3 | 7.6 |
| 55-64 years | 11,577 | 6.8 | 5,844 | 50.5 | 5,768 | 49.8 | 7.2 | 4,208 | 36.3 | 7.5 |
| 65 years and older | 14,553 | 8.6 | 6,195 | 42.6 | 6,122 | 42.1 | 7.7 | 4,260 | 29.3 | 7.6 |

(See footnotes at end of table.)

Table 70. Selected Characteristics of Participants in Primary Residential Activities: 1980
(Continued)

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

| Characteristic | Total population | | Primary participants | | Total residential | | | Observe | | |
|--|------------------|---------|----------------------|-----------------------|-------------------|-----------------------|---------|---------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Race: | | | | | | | | | | |
| White | 146,999 | 86.5 | 77,163 | 52.5 | 73,926 | 50.3 | 92.8 | 52,565 | 35.8 | 94.1 |
| Black | 18,175 | 10.7 | 4,693 | 25.8 | 4,511 | 24.8 | 5.7 | 2,484 | 13.7 | 4.4 |
| All others | 4,768 | 2.8 | 1,316 | 27.6 | 1,233 | 25.9 | 1.5 | 822 | 17.2 | 1.5 |
| Annual household income: | | | | | | | | | | |
| Under \$5,000 | 12,997 | 7.6 | 4,836 | 37.2 | 4,644 | 35.7 | 5.8 | 3,001 | 23.1 | 5.4 |
| \$5,000-9,999 | 22,876 | 13.5 | 9,408 | 41.1 | 9,067 | 39.6 | 11.4 | 5,845 | 25.6 | 10.5 |
| \$10,000-14,999 | 21,210 | 12.5 | 10,278 | 48.5 | 9,688 | 45.7 | 12.2 | 6,969 | 32.9 | 12.5 |
| \$15,000-19,999 | 19,310 | 11.4 | 9,797 | 50.7 | 9,497 | 49.2 | 11.9 | 6,562 | 34.0 | 11.7 |
| \$20,000-24,999 | 21,966 | 12.9 | 13,180 | 60.0 | 12,412 | 56.5 | 15.6 | 8,846 | 40.3 | 15.8 |
| \$25,000-29,999 | 16,379 | 9.6 | 8,968 | 54.8 | 8,641 | 52.8 | 10.8 | 6,551 | 40.0 | 11.7 |
| \$30,000-39,999 | 13,764 | 8.1 | 8,506 | 61.8 | 8,145 | 59.2 | 10.2 | 5,705 | 41.4 | 10.2 |
| \$40,000-49,999 | 5,664 | 3.3 | 3,011 | 53.2 | 2,924 | 51.6 | 3.7 | 2,134 | 37.7 | 3.8 |
| \$50,000 or more | 5,854 | 3.4 | 3,174 | 54.2 | 3,014 | 51.5 | 3.8 | 2,057 | 35.1 | 3.7 |
| Not reported | 29,923 | 17.6 | 12,015 | 40.2 | 11,637 | 38.9 | 14.6 | 8,200 | 27.4 | 14.7 |
| Education: | | | | | | | | | | |
| None | 1,452 | 0.9 | *344 | 23.7 | *344 | 23.7 | 0.4 | *218 | 15.0 | 0.4 |
| 1-7 years | 12,453 | 7.3 | 3,952 | 31.7 | 3,823 | 30.7 | 4.8 | 2,487 | 20.0 | 4.5 |
| 8 years | 11,401 | 6.7 | 3,895 | 34.2 | 3,801 | 33.3 | 4.8 | 2,544 | 22.3 | 4.6 |
| 9-11 years | 28,555 | 16.8 | 12,006 | 42.0 | 11,672 | 40.9 | 14.7 | 7,802 | 27.3 | 14.0 |
| 12 years | 62,538 | 36.8 | 30,788 | 49.2 | 29,455 | 47.1 | 37.0 | 20,242 | 32.4 | 36.2 |
| 1-3 years college | 26,250 | 15.4 | 15,186 | 57.9 | 14,437 | 55.0 | 18.1 | 10,409 | 39.7 | 18.6 |
| 4 years college | 13,936 | 8.2 | 8,354 | 59.9 | 7,856 | 56.4 | 9.9 | 5,860 | 42.0 | 10.5 |
| 5 or more years college | 13,359 | 7.9 | 8,647 | 64.7 | 8,281 | 62.0 | 10.4 | 6,309 | 47.2 | 11.3 |
| Occupation¹: | | | | | | | | | | |
| Civilian population | 165,633 | 97.5 | 82,694 | 49.9 | 79,210 | 47.8 | 100.0 | 55,585 | 33.6 | 100.0 |
| Civilian labor force | 104,808 | 61.7 | 51,392 | 49.0 | 48,661 | 46.4 | 61.4 | 33,829 | 32.3 | 60.9 |
| White collar workers | | | | | | | | | | |
| Professional and technical | 16,161 | 9.5 | 10,450 | 64.7 | 9,699 | 60.0 | 12.2 | 7,204 | 44.6 | 13.0 |
| Farmers | 1,378 | 0.8 | 621 | 45.1 | 607 | 44.0 | 7.7 | 428 | 31.1 | 0.8 |
| Managers and proprietors | 11,385 | 6.7 | 6,447 | 56.6 | 6,204 | 54.5 | 7.8 | 4,346 | 38.2 | 7.8 |
| Clerical | 18,089 | 10.6 | 9,144 | 50.6 | 8,661 | 47.9 | 10.9 | 6,041 | 33.4 | 10.9 |
| Sales | 6,146 | 3.6 | 3,573 | 58.1 | 3,333 | 54.2 | 4.2 | 2,286 | 37.2 | 4.1 |
| Blue collar workers | | | | | | | | | | |
| Craftsmen | 12,027 | 7.1 | 6,389 | 53.1 | 6,036 | 50.9 | 7.6 | 4,365 | 36.3 | 7.9 |
| Operatives | 13,487 | 7.9 | 5,612 | 41.6 | 5,428 | 40.2 | 6.9 | 3,301 | 24.5 | 5.9 |
| Private households | 1,071 | 0.6 | 463 | 43.2 | 447 | 41.7 | 5.6 | *285 | 26.6 | 0.5 |
| Other service | 11,872 | 7.0 | 5,366 | 45.2 | 5,198 | 43.8 | 6.6 | 3,513 | 29.6 | 6.3 |
| Farm laborers | 903 | 0.5 | 428 | 47.4 | 397 | 44.0 | 5.0 | *291 | 32.2 | 0.5 |
| Other laborers | 3,865 | 2.3 | 1,728 | 44.7 | 1,635 | 42.3 | 2.1 | 1,175 | 30.4 | 2.1 |
| Civilian population not in labor force | 60,819 | 35.8 | 30,962 | 50.9 | 30,238 | 49.7 | 3.8 | 21,559 | 35.4 | 38.8 |

(See footnotes at end of table.)

Table 70. Selected Characteristics of Participants in Primary Residential Activities: 1980 (Continued)

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

| Characteristic | Photograph | | | Feed birds | | | Characteristic | Photograph | | | Feed birds | | |
|-----------------------------|------------|-----------------------|---------|------------|-----------------------|---------|--|------------|-----------------------|---------|------------|-----------------------|---------|
| | Number | Percent of population | Percent | Number | Percent of population | Percent | | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Total persons | 12,401 | 7.3 | 100.0 | 62,463 | 36.8 | 100.0 | Race: | | | | | | |
| Population density: | | | | | | | White | 11,726 | 8.0 | 94.6 | 58,145 | 39.6 | 93.1 |
| Big cities | 1,218 | 5.3 | 9.8 | 5,949 | 25.9 | 9.5 | Black | 460 | 2.5 | 3.7 | 3,468 | 19.1 | 5.6 |
| Small cities | 5,520 | 7.8 | 44.5 | 27,570 | 38.8 | 44.1 | All others | *214 | 4.5 | 1.7 | 850 | 17.8 | 1.4 |
| Towns and rural areas | 5,662 | 7.5 | 45.7 | 28,944 | 38.1 | 46.3 | Annual household income: | | | | | | |
| Census geographic division: | | | | | | | Under \$5,000 | 484 | 3.7 | 3.9 | 3,699 | 28.5 | 5.9 |
| New England | 885 | 9.4 | 7.1 | 4,200 | 44.9 | 6.7 | \$5,000-\$9,999 | 932 | 4.1 | 7.5 | 7,695 | 33.6 | 12.3 |
| Middle Atlantic | 1,806 | 6.5 | 14.6 | 9,429 | 33.8 | 15.1 | \$10,000-\$14,999 | 1,410 | 6.6 | 11.4 | 7,333 | 34.6 | 11.7 |
| East North Central | 2,631 | 8.5 | 21.2 | 14,757 | 47.9 | 23.6 | \$15,000-\$19,999 | 1,559 | 8.1 | 12.6 | 7,433 | 38.5 | 11.9 |
| West North Central | 1,086 | 8.5 | 8.8 | 4,908 | 38.4 | 7.9 | \$20,000-\$24,999 | 1,849 | 8.4 | 14.9 | 9,722 | 44.3 | 15.6 |
| South Atlantic | 1,687 | 6.0 | 13.6 | 9,182 | 32.7 | 14.7 | \$25,000-\$29,999 | 1,622 | 9.9 | 13.1 | 6,653 | 40.6 | 10.7 |
| East South Central | 447 | 4.1 | 3.6 | 3,351 | 31.0 | 5.4 | \$30,000-\$39,999 | 1,813 | 13.2 | 14.6 | 6,270 | 45.5 | 10.0 |
| West South Central | 979 | 5.6 | 7.9 | 5,499 | 31.3 | 8.8 | \$40,000-\$49,999 | 543 | 9.6 | 4.4 | 2,283 | 40.3 | 3.7 |
| Mountain | 817 | 9.7 | 6.6 | 2,686 | 31.9 | 4.3 | \$50,000 or more | 672 | 11.5 | 5.4 | 2,184 | 37.3 | 3.5 |
| Pacific | 2,062 | 8.5 | 16.6 | 8,451 | 34.7 | 13.5 | Not reported | 1,517 | 5.1 | 12.2 | 9,193 | 30.7 | 14.7 |
| Sex and age group: | | | | | | | Education: | | | | | | |
| Both sexes, total | 12,401 | 7.3 | 100.0 | 62,463 | 36.8 | 100.0 | None | ... | ... | ... | *266 | 18.3 | 0.4 |
| 16-17 years | 827 | 9.6 | 6.7 | 2,052 | 23.8 | 3.3 | 1-7 years | *238 | 1.9 | 1.9 | 3,267 | 26.2 | 5.2 |
| 18-24 years | 2,140 | 7.5 | 17.3 | 7,561 | 26.5 | 12.1 | 8 years | *227 | 2.0 | 1.8 | 3,251 | 28.5 | 5.2 |
| 25-34 years | 4,061 | 10.8 | 32.7 | 15,209 | 40.3 | 24.3 | 9-11 years | 1,493 | 5.2 | 12.0 | 9,278 | 32.5 | 14.9 |
| 35-44 years | 2,040 | 7.8 | 16.5 | 10,102 | 38.7 | 16.2 | 12 years | 3,915 | 6.3 | 31.6 | 23,727 | 37.9 | 38.0 |
| 45-54 years | 1,458 | 6.5 | 11.8 | 8,523 | 37.8 | 13.6 | 1-3 years college | 3,175 | 12.1 | 25.6 | 10,739 | 40.9 | 17.2 |
| 55-64 years | 1,103 | 5.1 | 8.9 | 9,434 | 43.4 | 15.1 | 4 years college | 1,666 | 12.0 | 13.4 | 6,268 | 45.0 | 10.0 |
| 65 years and older | 772 | 3.1 | 6.2 | 9,583 | 38.9 | 15.3 | 5 or more years college | 1,671 | 12.5 | 13.7 | 5,666 | 42.4 | 9.1 |
| Male, total | 6,333 | 7.8 | 51.1 | 27,071 | 33.5 | 43.3 | Occupation ¹ : | | | | | | |
| 16-17 years | 463 | 10.4 | 3.7 | 1,158 | 26.1 | 1.9 | Civilian population | 12,288 | 74.2 | 100.0 | 62,173 | 37.5 | 100.0 |
| 18-24 years | 1,035 | 7.4 | 8.3 | 3,392 | 24.4 | 5.4 | Civilian labor force | 8,751 | 8.3 | 71.2 | 36,530 | 34.9 | 58.8 |
| 25-34 years | 2,054 | 11.1 | 16.6 | 6,415 | 34.6 | 10.3 | White collar workers | | | | | | |
| 35-44 years | 1,023 | 8.0 | 8.2 | 4,320 | 33.9 | 6.9 | Professional and technical | 2,235 | 13.8 | 18.2 | 6,820 | 42.2 | 11.0 |
| 45-54 years | 779 | 7.2 | 6.3 | 3,423 | 31.5 | 5.5 | Farmers | ... | ... | ... | *370 | 26.9 | 0.6 |
| 55-64 years | 606 | 6.0 | 4.9 | 4,221 | 41.6 | 6.8 | Managers and proprietors | 1,260 | 11.1 | 10.3 | 4,653 | 40.9 | 7.5 |
| 65 years and older | *373 | 3.7 | 3.0 | 4,142 | 41.0 | 6.6 | Clerical | 1,493 | 8.3 | 12.2 | 6,874 | 38.0 | 11.1 |
| Female, total | 6,067 | 6.8 | 48.9 | 35,392 | 39.7 | 56.7 | Sales | 657 | 10.7 | 5.3 | 2,593 | 42.2 | 4.2 |
| 16-17 years | *363 | 8.7 | 2.9 | 894 | 21.4 | 1.4 | Blue collar workers | | | | | | |
| 18-24 years | 1,105 | 7.6 | 8.9 | 4,169 | 28.5 | 6.7 | Craftsmen | 1,092 | 9.1 | 8.9 | 4,379 | 36.4 | 7.0 |
| 25-34 years | 2,006 | 10.4 | 16.2 | 8,793 | 45.8 | 14.1 | Operatives | 556 | 4.1 | 4.5 | 4,212 | 31.2 | 6.8 |
| 35-44 years | 1,018 | 7.6 | 8.2 | 5,782 | 43.3 | 9.3 | Private households | ... | ... | ... | 387 | 36.1 | 0.6 |
| 45-54 years | 679 | 5.8 | 5.5 | 5,100 | 43.7 | 8.2 | Other service | 833 | 7.0 | 6.8 | 4,192 | 35.3 | 6.7 |
| 55-64 years | 497 | 4.3 | 4.0 | 5,212 | 45.0 | 8.3 | Farm laborers | ... | ... | ... | *257 | 28.5 | 0.4 |
| 65 years and older | 399 | 2.7 | 3.2 | 5,441 | 37.4 | 8.7 | Other laborers | *340 | 8.8 | 2.8 | 1,083 | 28.0 | 1.7 |
| | | | | | | | Civilian population not in labor force | 3,522 | 5.8 | 28.7 | 25,380 | 41.7 | 40.8 |

Note: Detail does not add to total because of multiple responses or nonresponse. * Estimate based on a small sample size. ... Sample size too small to report data reliably.

¹ Total population figures for occupation categories from February 1981 Current Population Survey (CPS) data because occupation questions were not asked on the screening questionnaire. These CPS figures are based on 1970 census results.

Table 71. Selected Characteristics of Participants in Secondary Activities: 1980

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

| Characteristic | Total population | | Total secondary | | Nonresidential | | | Residential | | |
|-----------------------------|------------------|---------|-----------------|-----------------------|----------------|-----------------------|---------|-------------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Total persons | 169,942 | 100.0 | 88,272 | 51.9 | 69,407 | 40.8 | 100.0 | 80,475 | 47.4 | 100.0 |
| Population density: | | | | | | | | | | 9.2 |
| Big cities | 22,968 | 13.5 | 8,448 | 36.8 | 6,282 | 27.4 | 9.1 | 7,399 | 32.2 | |
| Small cities | 71,041 | 41.8 | 39,436 | 55.5 | 32,251 | 45.4 | 46.5 | 35,284 | 49.7 | 43.8 |
| Towns and rural areas | 75,934 | 44.7 | 40,387 | 53.2 | 30,874 | 40.7 | 44.5 | 37,792 | 49.8 | 47.0 |
| Census geographic division: | | | | | | | | | | |
| New England | 9,362 | 5.5 | 5,135 | 54.8 | 3,801 | 40.6 | 5.5 | 4,598 | 49.1 | 5.7 |
| Middle Atlantic | 27,867 | 16.4 | 12,288 | 44.1 | 9,165 | 32.9 | 13.2 | 11,195 | 40.2 | 13.9 |
| East North Central | 30,791 | 18.1 | 19,606 | 63.7 | 15,437 | 50.1 | 22.2 | 18,499 | 60.1 | 23.0 |
| West North Central | 12,774 | 7.5 | 7,929 | 62.1 | 6,344 | 49.7 | 9.1 | 7,340 | 57.5 | 9.1 |
| South Atlantic | 28,066 | 16.5 | 11,848 | 42.2 | 8,869 | 31.6 | 12.8 | 11,050 | 39.4 | 13.7 |
| East South Central | 10,792 | 6.4 | 4,523 | 41.9 | 3,243 | 30.0 | 4.7 | 4,179 | 38.7 | 5.2 |
| West South Central | 17,550 | 10.3 | 7,977 | 45.5 | 6,398 | 36.5 | 9.2 | 6,998 | 39.9 | 8.7 |
| Mountain | 8,415 | 5.0 | 4,991 | 59.3 | 4,290 | 51.0 | 6.2 | 4,307 | 51.2 | 5.4 |
| Pacific | 24,326 | 14.3 | 13,976 | 57.5 | 11,861 | 48.8 | 17.1 | 12,309 | 50.6 | 15.3 |
| Sex and age group: | | | | | | | | | | |
| Both sexes, total | 169,942 | 100.0 | 88,272 | 51.9 | 69,407 | 40.8 | 100.0 | 80,475 | 47.4 | 100.0 |
| 16-17 years | 8,612 | 5.1 | 3,871 | 45.0 | 3,239 | 37.6 | 4.7 | 3,557 | 41.3 | 4.4 |
| 18-24 years | 28,546 | 16.8 | 13,973 | 48.9 | 12,000 | 42.0 | 17.3 | 12,408 | 43.5 | 15.4 |
| 25-34 years | 37,742 | 22.2 | 23,105 | 61.2 | 19,357 | 51.3 | 27.9 | 20,736 | 54.9 | 25.8 |
| 35-44 years | 26,117 | 15.4 | 14,710 | 56.3 | 12,237 | 46.9 | 17.6 | 13,567 | 51.9 | 16.9 |
| 45-54 years | 22,555 | 13.3 | 11,172 | 49.5 | 8,510 | 37.7 | 12.3 | 10,533 | 46.7 | 13.1 |
| 55-64 years | 21,723 | 12.8 | 10,758 | 49.5 | 7,709 | 35.5 | 11.1 | 9,760 | 44.9 | 12.1 |
| 65 years and older | 24,648 | 14.5 | 10,683 | 43.3 | 6,356 | 25.8 | 9.2 | 9,916 | 40.2 | 12.3 |
| Male, total | 80,753 | 47.5 | 42,553 | 52.7 | 34,014 | 42.1 | 100.0 | 38,518 | 47.7 | 100.0 |
| 16-17 years | 4,442 | 2.6 | 2,262 | 50.9 | 1,866 | 42.0 | 5.5 | 2,036 | 45.8 | 5.6 |
| 18-24 years | 13,916 | 8.2 | 6,945 | 49.9 | 5,969 | 42.9 | 17.5 | 6,205 | 44.6 | 17.0 |
| 25-34 years | 18,527 | 10.9 | 11,019 | 59.5 | 9,407 | 50.8 | 27.7 | 9,719 | 52.5 | 26.6 |
| 35-44 years | 12,750 | 7.5 | 7,471 | 58.6 | 6,164 | 48.3 | 18.1 | 6,847 | 53.7 | 18.7 |
| 45-54 years | 10,877 | 6.4 | 5,252 | 48.3 | 4,040 | 37.1 | 11.9 | 4,918 | 45.2 | 13.5 |
| 55-64 years | 10,145 | 6.0 | 5,003 | 49.3 | 3,638 | 35.9 | 10.7 | 4,548 | 44.8 | 12.5 |
| 65 years and older | 10,095 | 5.9 | 4,601 | 45.6 | 2,931 | 29.0 | 8.6 | 4,246 | 42.1 | 11.6 |
| Female, total | 89,190 | 52.5 | 45,719 | 51.3 | 35,393 | 39.7 | 100.0 | 41,957 | 47.0 | 100.0 |
| 16-17 years | 4,169 | 2.5 | 1,609 | 38.6 | 1,373 | 32.9 | 3.9 | 1,521 | 36.5 | 3.6 |
| 18-24 years | 14,630 | 8.6 | 7,028 | 48.0 | 6,031 | 41.2 | 17.0 | 6,203 | 42.4 | 14.8 |
| 25-34 years | 19,215 | 11.3 | 12,086 | 62.9 | 9,950 | 51.8 | 28.1 | 11,017 | 57.3 | 26.3 |
| 35-44 years | 13,367 | 7.9 | 7,240 | 54.2 | 6,073 | 45.4 | 17.2 | 6,720 | 50.3 | 16.0 |
| 45-54 years | 11,678 | 6.9 | 5,920 | 50.7 | 4,470 | 38.3 | 12.6 | 5,616 | 48.1 | 3.4 |
| 55-64 years | 11,577 | 6.8 | 5,755 | 49.7 | 4,071 | 35.2 | 11.5 | 5,212 | 45.0 | 12.4 |
| 65 years and older | 14,553 | 8.6 | 6,082 | 41.8 | 3,425 | 23.5 | 9.7 | 5,670 | 39.0 | 13.5 |
| Race: | | | | | | | | | | |
| White | 146,999 | 86.5 | 81,971 | 55.8 | 64,959 | 44.2 | 93.6 | 74,830 | 50.9 | 93.0 |
| Black | 18,175 | 10.7 | 4,790 | 26.4 | 3,346 | 18.4 | 4.8 | 4,318 | 23.8 | 5.4 |
| All others | 4,768 | 2.8 | 1,511 | 31.7 | 1,102 | 23.1 | 1.6 | 1,327 | 27.8 | 1.6 |

(See footnotes at end of table.)

Table 71. Selected Characteristics of Participants in Secondary Activities: 1980 (Continued)

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

| Characteristic | Total population | | Total secondary | | Nonresidential | | | Residential | | |
|--|------------------|---------|-----------------|-----------------------|----------------|-----------------------|---------|-------------|-----------------------|---------|
| | Number | Percent | Number | Percent of population | Number | Percent of population | Percent | Number | Percent of population | Percent |
| Annual household income: | | | | | | | | | | |
| Under \$5,000 | 12,997 | 7.6 | 4,980 | 38.3 | 3,594 | 27.7 | 5.2 | 4,522 | 34.8 | 5.6 |
| \$5,000-\$9,999 | 22,876 | 13.5 | 9,332 | 40.8 | 5,980 | 26.1 | 8.6 | 8,602 | 37.6 | 10.7 |
| \$10,000-\$14,999 | 21,210 | 12.5 | 10,518 | 49.6 | 8,303 | 39.1 | 12.0 | 9,667 | 45.6 | 12.0 |
| \$15,000-\$19,999 | 19,310 | 11.4 | 10,616 | 55.0 | 8,677 | 44.9 | 12.5 | 9,526 | 49.3 | 11.8 |
| \$20,000-\$24,999 | 21,966 | 12.9 | 14,113 | 64.3 | 11,617 | 52.9 | 16.7 | 12,738 | 58.0 | 15.8 |
| \$25,000-\$29,999 | 16,379 | 9.6 | 9,812 | 59.9 | 8,084 | 49.4 | 11.6 | 8,927 | 54.5 | 11.1 |
| \$30,000-\$39,999 | 13,764 | 8.1 | 9,404 | 68.3 | 7,960 | 57.8 | 11.5 | 8,739 | 63.5 | 10.9 |
| \$40,000-\$49,999 | 5,664 | 3.3 | 3,346 | 59.1 | 2,715 | 47.9 | 3.9 | 3,029 | 53.5 | 3.8 |
| \$50,000 or more | 5,854 | 3.4 | 3,667 | 62.6 | 3,149 | 53.8 | 4.5 | 3,335 | 57.0 | 4.1 |
| Not reported | 29,923 | 17.6 | 12,483 | 41.7 | 9,328 | 31.2 | 13.4 | 11,390 | 38.1 | 14.2 |
| Education: | | | | | | | | | | |
| None | 1,452 | 0.9 | *298 | 20.5 | *215 | 14.8 | 0.3 | *267 | 18.4 | 0.3 |
| 1-7 years | 12,453 | 7.3 | 3,814 | 30.6 | 2,099 | 16.9 | 3.0 | 3,485 | 28.0 | 4.3 |
| 8 years | 11,401 | 6.7 | 3,925 | 34.4 | 2,190 | 19.2 | 3.2 | 3,655 | 32.1 | 4.5 |
| 9-11 years | 28,555 | 16.8 | 12,650 | 44.3 | 9,467 | 33.2 | 13.6 | 11,613 | 40.7 | 14.4 |
| 12 years | 62,538 | 36.8 | 32,207 | 51.5 | 25,199 | 40.3 | 36.3 | 28,928 | 46.3 | 35.9 |
| 1-3 years college | 26,250 | 15.4 | 16,760 | 63.8 | 14,295 | 54.5 | 20.6 | 15,331 | 58.4 | 19.1 |
| 4 years college | 13,936 | 8.2 | 9,093 | 65.2 | 7,721 | 55.4 | 11.1 | 8,454 | 60.7 | 10.5 |
| 5 or more years college | 13,359 | 7.9 | 9,525 | 71.3 | 8,221 | 61.5 | 11.8 | 8,742 | 65.4 | 10.9 |
| Occupation ¹ : | | | | | | | | | | |
| Civilian population | 165,633 | 97.5 | 87,775 | 53.0 | 68,962 | 41.6 | 100.0 | 80,079 | 48.3 | 100.0 |
| Civilian labor force | 104,808 | 61.7 | 56,174 | 53.6 | 46,114 | 44.0 | 67.1 | 50,987 | 58.6 | 63.7 |
| White collar workers | | | | | | | | | | |
| Professional and technical | 16,161 | 9.5 | 11,419 | 70.7 | 9,825 | 60.8 | 14.3 | 10,431 | 64.5 | 13.0 |
| Farmers | 1,378 | 0.8 | 681 | 49.4 | 524 | 38.0 | 0.8 | 667 | 48.4 | 0.8 |
| Managers and proprietors | 11,385 | 6.7 | 7,067 | 62.1 | 6,095 | 53.5 | 8.9 | 6,476 | 56.9 | 8.1 |
| Clerical | 18,089 | 10.6 | 9,739 | 53.8 | 7,945 | 43.9 | 11.6 | 8,872 | 49.0 | 11.1 |
| Sales | 6,146 | 3.6 | 4,111 | 66.9 | 3,457 | 56.2 | 5.0 | 3,639 | 59.2 | 4.5 |
| Blue collar workers | | | | | | | | | | |
| Craftsmen | 12,027 | 7.1 | 6,985 | 58.1 | 5,677 | 47.2 | 8.3 | 6,335 | 52.7 | 7.9 |
| Operatives | 13,487 | 7.9 | 6,201 | 46.0 | 4,679 | 34.7 | 6.8 | 5,578 | 41.4 | 7.0 |
| Private households | 1,071 | 0.6 | 495 | 46.2 | *383 | 35.8 | 0.6 | 495 | 46.2 | 0.6 |
| Other service | 11,872 | 7.0 | 5,638 | 47.5 | 4,503 | 37.9 | 6.6 | 5,136 | 43.3 | 6.4 |
| Farm laborers | 903 | 0.5 | 478 | 52.9 | *382 | 42.3 | 0.6 | 428 | 47.4 | 0.5 |
| Other laborers | 3,865 | 2.2 | 1,981 | 51.3 | 1,594 | 41.2 | 2.3 | 1,761 | 45.6 | 2.2 |
| Civilian population not in labor force | 60,819 | 35.8 | 31,230 | 51.3 | 22,587 | 37.1 | 32.9 | 28,812 | 47.4 | 36.0 |

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

* Estimate based on a small sample size.

¹ Total population figures for occupation categories from February 1981 Current Population Survey (CPS) data because occupation items were not asked on the screening questionnaire. These CPS figures are based on 1970 census results.

Table 72. Participation in More Than One Nonconsumptive Activity: 1980

(U.S. population 16 years old and older. Percent)

| Activity | Also engaged in primary activities | | | | | | | | |
|------------------------|------------------------------------|-------|---------|------------|-------|--------------|---------|------------|------------|
| | Nonresidential | | | | | Residential | | | |
| | Any activity | Total | Observe | Photograph | Feed | Any activity | Observe | Photograph | Feed birds |
| Any primary activity | 100.0 | 34.7 | 34.5 | 14.2 | 15.8 | 95.8 | 67.2 | 14.9 | 75.1 |
| Trip takers | 100.0 | 100.0 | 99.5 | 41.0 | 45.5 | 87.8 | 70.0 | 21.1 | 65.7 |
| Observe | 100.0 | 100.0 | 100.0 | 41.2 | 45.6 | 87.8 | 70.1 | 21.1 | 65.8 |
| Photograph | 100.0 | 100.0 | 100.0 | 100.0 | 55.4 | 90.6 | 74.3 | 40.7 | 68.3 |
| Feed | 100.0 | 100.0 | 99.8 | 50.0 | 100.0 | 91.8 | 72.8 | 23.4 | 76.7 |
| Residential activities | 100.0 | 31.8 | 31.6 | 13.4 | 15.1 | 100.0 | 70.1 | 15.6 | 78.4 |
| Observe | 100.0 | 36.1 | 36.0 | 15.7 | 17.1 | 100.0 | 100.0 | 18.1 | 75.7 |
| Photograph | 100.0 | 49.0 | 48.8 | 38.8 | 24.7 | 100.0 | 81.4 | 100.0 | 72.9 |
| Feed birds | 100.0 | 30.3 | 30.2 | 12.9 | 16.1 | 100.0 | 67.7 | 14.5 | 100.0 |
| Feed other wildlife | 100.0 | 36.4 | 36.2 | 17.2 | 21.7 | 100.0 | 78.4 | 23.2 | 87.6 |
| Natural areas | 100.0 | 41.1 | 41.1 | 17.7 | 21.5 | 100.0 | 84.9 | 22.6 | 81.8 |
| Plantings | 100.0 | 42.6 | 42.5 | 20.1 | 22.3 | 100.0 | 82.5 | 22.4 | 81.9 |
| Public parks | 100.0 | 50.7 | 50.7 | 24.8 | 24.8 | 100.0 | 75.4 | 27.1 | 67.2 |
| Any secondary activity | 88.9 | 31.1 | 31.0 | 13.0 | 14.2 | 85.7 | 60.8 | 13.8 | 66.9 |
| Trip takers | 86.8 | 32.2 | 32.1 | 14.3 | 14.8 | 83.8 | 60.4 | 15.3 | 63.9 |
| Residential activities | 91.0 | 32.3 | 32.1 | 13.4 | 14.8 | 88.2 | 63.9 | 14.7 | 69.1 |

| Activity | Also engaged in primary activities (Continued) | | | | Also engaged in secondary activities | | |
|------------------------|--|------------------------|--------------------|--------------------|--------------------------------------|----------------|-------------|
| | Residential (Continued) | | | | | | |
| | Feed other wildlife | Maintain natural areas | Maintain plantings | Visit public parks | Any activity | Nonresidential | Residential |
| Any primary activity | 25.0 | 12.2 | 15.0 | 16.2 | 94.4 | 72.5 | 88.0 |
| Trip takers | 26.3 | 14.5 | 18.5 | 23.7 | 95.3 | 77.5 | 90.1 |
| Observe | 26.3 | 14.5 | 18.5 | 23.8 | 95.4 | 77.6 | 90.1 |
| Photograph | 30.3 | 15.2 | 21.2 | 28.3 | 96.9 | 83.8 | 91.5 |
| Feed | 34.5 | 16.7 | 21.3 | 25.5 | 95.7 | 78.5 | 91.0 |
| Residential activities | 26.1 | 12.7 | 15.7 | 16.9 | 95.0 | 73.0 | 89.1 |
| Observe | 29.2 | 15.4 | 18.4 | 18.2 | 96.0 | 75.0 | 92.0 |
| Photograph | 39.0 | 18.5 | 22.6 | 29.4 | 98.1 | 85.7 | 95.3 |
| Feed birds | 29.2 | 13.3 | 16.3 | 14.5 | 94.5 | 71.0 | 89.0 |
| Feed other wildlife | 100.0 | 18.6 | 21.1 | 18.1 | 96.8 | 76.5 | 92.2 |
| Natural areas | 38.1 | 100.0 | 52.2 | 16.1 | 98.3 | 78.9 | 96.9 |
| Plantings | 35.3 | 42.5 | 100.0 | 16.7 | 99.3 | 82.4 | 97.3 |
| Public parks | 28.0 | 12.2 | 15.5 | 100.0 | 97.6 | 81.8 | 92.7 |
| Any secondary activity | 22.8 | 11.3 | 14.0 | 14.9 | 100.0 | 78.6 | 91.2 |
| Trip takers | 23.0 | 11.5 | 14.8 | 15.9 | 100.0 | 100.0 | 88.8 |
| Residential activities | 23.9 | 12.2 | 15.1 | 15.5 | 100.0 | 76.6 | 100.0 |

Table 73. Participants 6-15 Years Old, by Nonconsumptive Activity: 1980

(Thousands)

| Activity | Total | 6-8 | 9-11 | 12-15 |
|------------------------|--------|-------|-------|--------|
| Total participants | 25,481 | 6,661 | 8,247 | 10,573 |
| PRIMARY ACTIVITIES | | | | |
| Total | 11,442 | 2,951 | 4,046 | 4,445 |
| Trip takers | 5,290 | 1,488 | 1,925 | 1,877 |
| Residential activities | 8,961 | 2,210 | 3,189 | 3,562 |
| Observe | 7,011 | 1,801 | 2,515 | 2,695 |
| Photograph | 986 | 103 | 305 | 578 |
| Feed birds | 2,627 | 622 | 995 | 1,010 |
| SECONDARY ACTIVITIES | | | | |
| Total | 24,528 | 6,443 | 7,908 | 10,177 |
| Trip takers | 16,255 | 4,301 | 5,379 | 6,575 |
| Residential activities | 21,827 | 5,739 | 7,077 | 9,011 |

Note: Detail does not add to total because of multiple responses. Data from the screening questionnaire completed by the household respondent and not necessarily by the participant.

* Estimate based on a small sample size.

... Sample size too small to report data reliably.



Appendixes

- A. Definitions
- B. Comparability With Previous Surveys
- C. Statistical Reliability Analysis

Appendix A

Definitions

Anadromous

Species, like salmon, shad, steelhead, and striped bass, that move from saltwater to freshwater to spawn.

Auxiliary equipment (nonconsumptive)

Satchels, day-packs, carrying cases, special clothing, tents, tarps, camping equipment, snowshoes, skis, travel or tent trailers, pickup campers, vans, motor homes, other.

Big game

Large wild animals hunted for sport or food, including deer, elk, bear, antelope, and wild turkey.

Binoculars and photographic equipment

Binoculars, spotting scopes, cameras, special lenses, film and developing, other photographic equipment.

Day

Any part of a day spent participating in a given activity. For instance, if someone hunted 2 hours one day and 3 hours another day, it would be recorded as 2 days of hunting. If someone hunted 2 hours in the morning and 1 hour during the evening of the same day, it would be considered 1 day of hunting.

Deep sea fishing

Ocean fishing more than 3 miles from shore.

Direct-use equipment (nonconsumptive)

Field guides, birdseed, birdfeeders, birdhouses or nest boxes, and birdbaths.

Education

The highest grade of regular schooling completed.

Exempt

Not required to purchase a license to hunt or fish in a State in which the respondent hunted or fished in 1980.

Feed

The act of maintaining a bird feeder or otherwise providing food to birds or other wildlife. Includes checking feeder or the supply of crumbs/scraps to be sure that food is available. Some examples of other wildlife that may have been fed are deer, rabbits, and squirrels. Not included are zoo animals or birds kept as pets (canaries, parakeets, etc.).

Fishing

The sport of catching or attempting to catch fish with hook and line or by archery, spearing, gigging or shooting for frogs, and seining and netting (but not for bait). Related pursuits that are not considered fishing in the survey include commercial fishing and catching or gathering shellfish (crabs, clams, oysters, etc.).

Freshwater

Inland waters such as rivers, lakes, streams, and ponds. This category includes the Great Lakes and connecting waters except where clearly distinguished.

Gigging

Using a pronged spear to catch frogs.

Great Lakes (fishing)

Lakes Superior, Michigan, Huron, Erie and Ontario, tributaries and

connecting waters, such as Lake St. Clair, and the St. Lawrence River, south of the bridge at Cornwall, New York. Great Lakes fishing includes fishing in these waters as well as fishing for smelt, steelhead, or salmon in rivers that run into the Great Lakes.

Home

The place where the respondent lives or the place where the respondent was staying while on vacation or while on a trip for another purpose; the starting point of a wildlife-related trip.

Household member

Any individual whose usual residence was the sample address.

Hunting

The sport of searching for wildlife with firearms or archery equipment. Only hunting for pleasure or recreation is included. Excluded are trapping animals, commercial hunting, searching for animals to photograph them, capturing animals live (e.g., to put in a zoo or for biological research), and hunting for frogs. Excluded are those who did not have a weapon but may have accompanied others in the field.

Income

The money income of all current household members, 14 years of age or older, during calendar year 1980. Included as income are wages and salaries, net income from a person's own (unincorporated) business, professional practice, or farm and other income payments such as pensions, dividends, and interest, as well as other kinds of periodic money income other than earnings.

In-State

Respondent's State of residence at the time of the screening interview.

Licensed

A fisherman and/or hunter who was licensed to fish and/or hunt in the State where the activity took place.

Life bird list

A list representing those avian species observed or identified by an individual.

Local wildlife organizations

Rod and gun clubs, birding clubs, and other wildlife-related organizations not of national scope. Includes State and local chapters of national organizations.

Maintain

To keep up by weeding, watering, cutting back, etc., plantings for the benefit of wildlife. Also, to set aside an area to serve as natural environment for wildlife.

Manmade areas

Areas such as golf courses, cemeteries, and urban parks.

Manmade lakes and reservoirs

Bodies of water created by using dams or other controls to contain the water.

Migratory birds

Birds regularly moving from one region or climate to another for feeding or breeding, for example, ducks, geese, dove, and woodcock.

Natural area

Wood lots, open fields, and other areas maintained as natural environments for wildlife.

Natural lakes and ponds

Standing bodies of fresh water that were not created by man.

Nonconsumptive user

One who participates in nonconsumptive wildlife-associated activities. (See also, primary nonresidential, primary residential, secondary nonresidential, secondary residential.)

Nongame

Species of wildlife not hunted or fished for sport or food.

Nonresident

An individual who participated in a State other than that in which (s)he resided at the time of the screening interview.

Observe

To give special attention to and derive enjoyment from the viewing of wildlife.

Off-road vehicles

Vehicles such as dune buggies, 4-wheel-drive vehicles, snowmobiles, and trailbikes.

One-day trip

A trip on which the respondent went and returned on the same day, not involving an overnight stay.

Other animals

Animals sometimes thought of as pests or varmints hunted for sport or for food. Not considered to be game animals in some States.

Out-of-State

Activity that occurs in States other than the respondent's State of residence.

Outing

A short trip away from home.

Participant

An individual who fished, hunted, and/or engaged in a nonconsumptive activity during 1980.

Plantings

Trees, bushes, shrubs, flowering plants, and seedbearing grasses chosen partly for their benefit to wildlife.

Population density

Big cities: central cities with population of 500,000 or more. Small cities: all other urban areas with populations of 2,500 but less than 500,000. Towns and rural areas: all places with populations under 2,500 and places with 2,500 persons or more not in an urbanized area.

Primary nonresidential

Trips or outings of at least 1 mile from home for the primary purpose of observing, photographing, or feeding wildlife. (Trips to zoos, circuses, aquariums, and museums, and trips to fish or hunt are not included.)

Primary residential

Activities around the home whose primary purpose is wildlife related, including (1) closely observing or trying to identify birds or other wildlife, (2) photographing wildlife, (3) feeding birds or other wildlife on a regular basis, (4) maintaining natural areas of at least 1/4 acre for which benefit to wildlife is an important concern, (5) maintaining plantings (shrubs, agricultural crops, etc.) for which benefit to wildlife is an important concern, or (6) visiting public parks within 1 mile of home for the purpose of observing, photographing, or feeding wildlife.

Primary purpose

The purpose that motivated the trip or activity and without which the trip or activity would not have been undertaken.

Primitive firearm

A black powder gun loaded in the discharge end (muzzle) of the weapon; a muzzle loader.

Public area

Lands owned and administered by local, State, or Federal governments.

Resident

An individual who participated in the State in which (s)he resided at the time of the screening interview.

Response rate

Percent of eligible sample households or individuals that were interviewed.

Saltwater fishing

Fishing in oceans, bays, sounds and tidal waters of rivers and streams.

Scouting

An exploratory trip for the purpose of evaluating potential hunting sites. To be considered scouting, the respondent must not have been carrying a weapon.

Secondary nonresidential

Enjoyment from seeing or hearing wildlife while on a trip or outing of at least 1 mile that is taken for another purpose, such as camping, driving for pleasure, or boating.

Secondary residential

Enjoyment from unplanned opportunities to see or hear wildlife while pursuing other activities around the home (e.g., enjoying birds while doing yardwork).

Secondary purpose

A purpose of a trip or activity that was not the motivating purpose but that held some significance for undertaking the trip or activity.

Small game

Smaller sized wild animals, such as rabbits, quail, grouse and pheasant, which are hunted for sport or for food, not including waterfowl, other migratory birds, and animals generally considered to be pests or varmints.

Spender

An individual who purchased a particular item in 1980.

Sportsman

An individual who hunted and/or fished for sport.

Suet

Animal fat from beef or mutton used in the feeding of birds.

Surf and shore fishing

Fishing in saltwater 3 miles or less from shore.

Trip

Trips for the primary purpose of hunting, fishing, or a nonconsumptive activity as well as trips for another purpose (e.g., vacation) during which these activities occurred. Included are trips from the respondent's residence as well as trips from a starting point other than the respondent's principal residence (e.g., a vacation home, relative's residence).

Unplanned opportunity

An opportunity to enjoy wildlife while engaged in an activity for some purpose other than observing, photographing, or feeding wildlife.

Unlicensed

A fisherman and/or hunter who was not licensed to fish and/or hunt in the State in which the activity took place; includes sportsmen who were exempt from having a license.

Wetlands

Open areas covered with shallow and sometimes temporary or intermittent waters commonly referred to as marshes, swamps, potholes, and meadows or bottomlands that are sometimes flooded.

Appendix B

Comparability With Previous Surveys

The 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation was designed for comparability with surveys in 1955, 1960, 1965, 1970, and 1975. This appendix compares the major findings of all the surveys so that trends in critical estimates can be determined, although complete comparability between any two surveys cannot be achieved.

Due to the changes in both scope and design of the 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, a concerted effort was made to include questions on the 1980 survey questionnaire that would create linkages with past surveys. Significant differences between definitions of categories of data are discussed in the following sections under the headings of the year each survey was conducted.

1955-1970 Surveys

The 1960, 1965, and 1970 National Surveys of Fishing and Hunting differ from the 1955 national survey in classification of expenditures as outlined below. In general, the surveys may be compared for totals, but details should take into account the exceptions noted below. The effect of these items should be considered in assessing trends.

1. Alaska and Hawaii were not included in the 1955 survey. The effect is probably not very significant.
2. Generally the 1970 data give much greater detail. However, the classification of some expenditures differs in the 1960, 1965, and 1970

surveys from those in 1955 in the following respects:

- a. "Boats and boat motors" shown under "auxiliary equipment" were under "equipment, other" in 1955.
 - b. "Entrance and other privilege fees" shown separately were under "trip expenditures, other" in 1955.
 - c. "Snacks and refreshments" not included with "food" expenditures in the 1960-1970 reports were under "trip expenditures, other" in 1955.
 - d. Expenditures on equipment, magazines, club dues, licenses, and other similar items were classified by the one sport activity for which expenditures were chiefly made. In 1955, these expenditures were evenly divided among all the activities in which the sportsman took part.
 - e. Expenditures on "other" were reduced compared with 1955 by transferring certain items to more appropriate categories.
 - f. Expenditures on alcoholic beverages were included for the 1970 survey.
 - g. The definition of a substantial participant was changed for the 1970 survey from \$5 or 3 days to \$7.50 or 3 days.
3. The number of waterfowl hunters in the 1970 survey is not comparable with those reported in the 1960 and 1965 surveys. In 1960 and 1965, respondent sportsmen were not included in the waterfowl hunter total if they reported that they went waterfowl hunting but did not take the trip chiefly to hunt waterfowl. In 1970, all respondents who

reported that they had hunted waterfowl during 1970, regardless of trip purpose, were included in the total. The number of hunters who did not take trips chiefly to hunt waterfowl in 1970 was 1,054,000.

1975 Survey

In contrast to previous surveys, the 1975 survey based all the estimates on responses from individuals 9 years of age and older and did not select respondents based upon substantial participation as defined above. As a result, individuals who participated less than 3 days or spent less than \$7.50 on hunting or fishing were included in the estimates of participants, days of activity, and expenditures.

Categories of expenditures on hunting and fishing differed from the previous four surveys in that only major categories were reported. For example, hunting equipment expenditures were not further delineated nor were fishing equipment expenditures. Expenses for "other" items such as daily entrance fees, magazines, club dues, and dogs were categorized as "other" in the 1975 report.

In addition to the above differences the 1975 survey gathered data on species sought for the favorite hunting and fishing activity. These data replaced the "chiefly" category where hunting or fishing was the primary purpose of the trip or day of activity. Data omitted in the 1975 survey that were included in previous surveys include the respondents' population density of residence, occupation, and level of education.

1980 Survey

To the extent that comparability is achievable, additional questions were added to the 1980 survey questionnaire to enable the construction of previous definitions of categories of data. In addition, the use of "chiefly" to delimit primary purpose appeared in the 1980 survey as it had in the 1970 and prior surveys. The expenditure categories in 1980 are similar to the 1970 categories with the addition of fish finders, motor homes, and camper trucks. The definition of fishing included the use of nets or seines and spear fishing.

As in the 1975 and 1970 surveys, the 1980 survey used a two-phase process to gather information from sportsmen. In the first phase, household respondents were asked to identify hunters and fishermen 6 years of age and older residing in their household. In comparison, the 1975 and 1970 surveys screened households for participants that were eligible if they were 9 years of age and older. In the detailed interview phase, conducted in person in 1980 and 1970 and by mail in 1975, participants were eligible if they were 12 years old in 1970, 9 years old for the 1975 survey, and 16 years old for the 1980 survey. As a result, the population of hunters and fishermen is more narrowly defined in 1980 to include detailed information on only individuals 16 years old and older. However, estimates of sportsmen 6 years old and over, 9 years old and over, and 12 years old and over are available for comparison with past surveys. Detailed expenditures data

were not gathered for the 6-15-year-old category.

The principle characteristics of the 1955-1980 surveys are summarized in table B-1. The intent of this table is to increase the reader's understanding of the scope and design of past surveys compared to the 1980 survey.

Trends

Tables B-2 and B-3 contain major findings from the six national surveys on the number of participants who hunt and fish, the days they spend doing the activities, and their expenditures. These tables are for the purpose of assessing trends in fishing and hunting back to 1955 where data are available. For the purposes of the tables, the estimates for 1975 and 1980 were adjusted to conform as closely as possible to past definitions. Totals in these tables do not compare with the results elsewhere in this report or the 1975 report because of the exclusion here of individuals who participated for 2 days or less or spent less than \$11 on fishing or hunting in 1975 and \$15 in 1980; individuals who were younger than 12 years old are also excluded.

The 1975 survey data were further adjusted in the following ways. Those who fished for anadromous species were divided into freshwater and saltwater participants by counting all individuals who indicated anadromous fishing only in freshwater as freshwater fishermen and counting similarly for saltwater fishermen. An individual could be counted in both categories. Expenditures were designated as either freshwater or

saltwater when the respondent indicated that the activity took place in only one kind of water. For those individuals who fished for anadromous species in both freshwater and saltwater, expenditures were apportioned according to the ratio of the days spent in each type of water.

The categories for small game, migratory bird, and other hunting in the 1975 survey were redefined as small game and waterfowl. All species except ducks and geese were included in small game. Participants days, and expenditures were determined as follows for waterfowl, and all residual migratory bird participants, days, and expenditures were added to small game. If an individual only hunted for ducks or geese in the migratory bird category, the days and expenditures were tallied as waterfowl. If an individual hunted both ducks and geese, the greater number of days was used as waterfowl hunting days. It was assumed that both ducks and geese were hunted on the same day. If both waterfowl and other migratory birds were hunted by the same individual, expenditures were divided by the ratio of the days.

The 1975 survey also included waterfowl hunting and days under a separate category of favorite and second favorite activity. The estimate of waterfowl hunting days derived above was subtracted from respondents' answers indicating that waterfowl hunting was either their favorite or second favorite activity. The distribution of the differences was normal with 61 percent being zero.

Thus, minimal bias is introduced into the estimated waterfowl hunters or the days of waterfowl hunting by the procedures used to evaluate these data.

The only 1980 survey data that needed adjustment were the categories of small game, migratory birds, and other hunting. Expenditures for small game hunting were calculated as the sum of expenditures for small game, other hunting, and nonwaterfowl hunters who hunted for migratory birds. Expenditures for waterfowl hunting were estimated to be that portion of the migratory bird hunting expenditures that was spent by those who went waterfowl hunting.

The 1980 detailed estimates of participants, days, and expenditures were adjusted to account for exclusion of the 12-15-year-old age group from the detailed interview phase of the 1980 survey. That age group had been included in previous surveys. The 1980 estimates were increased using the proportion of total participants, days, and expenditures in 1970 that were accounted for by the 12-15-year-old age category. Adjustments were also made to account for the change between 1970 and 1980 in the percentage of the total population that was made up of 12-15-year-olds. The 1970 survey was used for making the adjustments because of the similarities between the 1970 and 1980 survey designs.

Table B-1. Major Characteristics of Surveys: 1955-1980

| Characteristic | 1955 | 1960 | 1965 | 1970 | 1975 | 1980 |
|---|--|---|---|---|--|---|
| Survey design: screening data population of interest. | Combined with detailed phase. | Personal interview, 12 years of age and older. | Personal interview, 9 years of age and older. | Mail questionnaire, 9 years of age and older. | Telephone interview, 9 years of age and older. | Telephone personal interview, 6 years of age and older. |
| Survey design: detailed data population of interest. | Personal interview, 12 years of age and older. | Personal interview, 12 years of age and older. Substantial participants. ¹ | Personal interview, 12 years of age and older. Substantial participants. ¹ | Personal interview, 12 years of age and older. Substantial participants. ² | Mail questionnaire 9 years of age and older. | Personal interview, 16 years of age and older. |
| Sample size: | | | | | | |
| Screening phase-households | 20,000 | 18,000 | 16,000 | 24,000 | 106,294 | 116,025 |
| Detailed phase-individuals | 9,328 | 10,300 | 6,400 | 8,700 | 20,211 | 36,416 |
| Response rate: | | | | | | |
| Screening phase | NA | NA | NA | NA | 95% | 95% |
| Detailed phase | NA | 93% | NA | NA | 37% | 90% |
| Level of reporting | National | National | National | National | State and National | State and National |
| Data collection agency | Private contractor. | Bureau of the Census. | Bureau of the Census. | Bureau of the Census. | Private contractor. | Bureau of the Census. |

NA Not available

¹ Spent \$5 or more or participated 3 days or more during the year.² Spent \$7.50 or more or participated 3 days or more during the year.

Table B-2. Fishermen and Hunters, by Region: 1955-1980

(U.S. population 12 years old and older. Numbers in thousands)

| Region and year | U.S. population | | Fished or hunted | | Fished | | Hunted | |
|---------------------|-----------------|---------|------------------|---------|--------|---------|--------|---------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Total: | | | | | | | | |
| 1955 | 118,366 | 100.0 | 24,917 | 21.1 | 20,813 | 17.6 | 11,784 | 10.0 |
| 1960 | 131,226 | 100.0 | 30,435 | 23.2 | 25,323 | 19.3 | 14,637 | 11.2 |
| 1965 | 141,928 | 100.0 | 32,881 | 23.2 | 28,348 | 20.0 | 13,585 | 9.6 |
| 1970 | 155,230 | 100.0 | 36,277 | 23.4 | 33,158 | 21.4 | 14,336 | 9.2 |
| 1975 | 171,860 | 100.0 | 45,773 | 26.6 | 41,299 | 24.0 | 17,094 | 9.9 |
| 1980 | 184,691 | 100.0 | 46,966 | 25.4 | 41,873 | 22.7 | 16,758 | 9.1 |
| New England: | | | | | | | | |
| 1955 | 7,919 | 100.0 | 1,224 | 15.4 | 1,002 | 12.7 | 589 | 7.4 |
| 1960 | 8,349 | 100.0 | 1,368 | 16.4 | 1,205 | 14.4 | 517 | 6.2 |
| 1965 | 9,256 | 100.0 | 1,650 | 17.8 | 1,488 | 16.0 | 583 | 6.3 |
| 1970 | 8,652 | 100.0 | 1,579 | 18.3 | 1,430 | 16.5 | 582 | 6.7 |
| 1975 | 9,910 | 100.0 | 2,004 | 20.2 | 1,861 | 18.8 | 566 | 5.7 |
| 1980 | 10,205 | 100.0 | 1,974 | 19.3 | 1,788 | 17.5 | 572 | 5.6 |
| Middle Atlantic: | | | | | | | | |
| 1955 | 24,869 | 100.0 | 3,539 | 14.2 | 2,811 | 11.3 | 1,608 | 6.5 |
| 1960 | 26,493 | 100.0 | 3,432 | 13.0 | 2,569 | 9.7 | 1,723 | 6.5 |
| 1965 | 27,346 | 100.0 | 3,602 | 13.2 | 2,760 | 10.1 | 1,631 | 6.0 |
| 1970 | 28,244 | 100.0 | 4,539 | 16.1 | 4,504 | 14.4 | 1,731 | 6.1 |
| 1975 | 30,449 | 100.0 | 5,919 | 19.4 | 5,097 | 16.7 | 2,096 | 6.9 |
| 1980 | 30,256 | 100.0 | 5,181 | 17.1 | 4,332 | 14.3 | 2,001 | 6.6 |
| East North Central: | | | | | | | | |
| 1955 | 25,733 | 100.0 | 5,489 | 21.3 | 4,583 | 17.8 | 2,538 | 9.9 |
| 1960 | 26,833 | 100.0 | 6,316 | 23.5 | 5,317 | 19.8 | 2,985 | 11.1 |
| 1965 | 28,124 | 100.0 | 6,214 | 22.1 | 5,336 | 19.0 | 2,563 | 9.1 |
| 1970 | 31,550 | 100.0 | 7,284 | 23.1 | 6,699 | 21.2 | 2,812 | 8.9 |
| 1975 | 32,796 | 100.0 | 9,049 | 27.6 | 8,181 | 24.9 | 3,392 | 10.3 |
| 1980 | 33,526 | 100.0 | 8,725 | 26.0 | 7,891 | 23.5 | 2,955 | 8.8 |
| West North Central: | | | | | | | | |
| 1955 | 9,201 | 100.0 | 2,913 | 31.7 | 2,346 | 25.5 | 1,534 | 16.7 |
| 1960 | 10,149 | 100.0 | 3,383 | 33.3 | 2,855 | 28.1 | 1,709 | 16.8 |
| 1965 | 11,681 | 100.0 | 3,678 | 31.5 | 3,226 | 27.6 | 1,620 | 13.9 |
| 1970 | 12,904 | 100.0 | 4,000 | 31.0 | 3,579 | 27.7 | 1,783 | 13.8 |
| 1975 | 13,564 | 100.0 | 4,524 | 33.3 | 4,089 | 30.1 | 1,863 | 13.7 |
| 1980 | 13,826 | 100.0 | 4,770 | 34.5 | 4,220 | 30.5 | 1,965 | 14.2 |
| South Atlantic: | | | | | | | | |
| 1955 | 14,336 | 100.0 | 3,223 | 22.5 | 2,805 | 19.6 | 1,449 | 10.1 |
| 1960 | 17,798 | 100.0 | 4,423 | 24.9 | 3,695 | 20.8 | 2,045 | 11.5 |
| 1965 | 20,593 | 100.0 | 5,626 | 27.3 | 5,054 | 24.5 | 1,900 | 9.2 |
| 1970 | 23,539 | 100.0 | 5,461 | 23.2 | 5,129 | 21.8 | 1,904 | 8.1 |
| 1975 | 27,127 | 100.0 | 7,110 | 26.2 | 6,479 | 23.9 | 2,494 | 9.2 |
| 1980 | 30,512 | 100.0 | 7,769 | 25.5 | 7,086 | 23.2 | 2,444 | 8.0 |

Table B-2. Fishermen and Hunters, by Region: 1955-1980 (Continued)

(U.S. population 12 years old and older. Numbers in thousands)

| Region and year | U.S. population | | Fished or hunted | | Fished | | Hunted | |
|---------------------|-----------------|---------|------------------|---------|--------|---------|--------|---------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| East South Central: | | | | | | | | |
| 1955 | 7,959 | 100.0 | 1,963 | 24.7 | 1,665 | 20.9 | 989 | 12.4 |
| 1960 | 9,277 | 100.0 | 2,778 | 29.9 | 2,207 | 23.8 | 1,510 | 16.3 |
| 1965 | 9,652 | 100.0 | 2,587 | 26.8 | 2,201 | 22.8 | 1,294 | 13.4 |
| 1970 | 9,862 | 100.0 | 2,660 | 27.0 | 2,464 | 25.0 | 1,162 | 11.8 |
| 1975 | 10,798 | 100.0 | 3,007 | 27.8 | 2,689 | 24.9 | 1,355 | 12.5 |
| 1980 | 11,771 | 100.0 | 3,614 | 30.7 | 3,173 | 27.0 | 1,567 | 13.3 |
| West South Central: | | | | | | | | |
| 1955 | 10,250 | 100.0 | 2,560 | 25.0 | 2,237 | 21.8 | 1,165 | 11.4 |
| 1960 | 11,837 | 100.0 | 3,666 | 31.0 | 3,133 | 26.5 | 1,750 | 14.8 |
| 1965 | 12,724 | 100.0 | 3,713 | 29.2 | 3,278 | 25.8 | 1,571 | 12.3 |
| 1970 | 14,624 | 100.0 | 4,380 | 30.0 | 4,006 | 27.4 | 1,918 | 13.1 |
| 1975 | 16,628 | 100.0 | 5,781 | 34.8 | 5,267 | 31.7 | 2,563 | 15.4 |
| 1980 | 19,136 | 100.0 | 5,862 | 30.6 | 5,136 | 26.8 | 2,456 | 12.8 |
| Mountain: | | | | | | | | |
| 1955 | 4,529 | 100.0 | 1,369 | 30.2 | 1,112 | 24.6 | 796 | 17.6 |
| 1960 | 5,222 | 100.0 | 1,646 | 31.5 | 1,372 | 26.3 | 1,120 | 21.4 |
| 1965 | 5,029 | 100.0 | 1,565 | 31.1 | 1,261 | 25.1 | 988 | 19.6 |
| 1970 | 5,656 | 100.0 | 2,044 | 36.1 | 1,769 | 31.3 | 980 | 17.3 |
| 1975 | 7,576 | 100.0 | 2,570 | 33.9 | 2,252 | 29.7 | 1,159 | 15.3 |
| 1980 | 9,160 | 100.0 | 2,903 | 31.7 | 2,500 | 27.3 | 1,268 | 13.8 |
| Pacific: | | | | | | | | |
| 1955 | 13,570 | 100.0 | 2,637 | 19.4 | 2,252 | 16.6 | 1,116 | 8.2 |
| 1960 | 15,268 | 100.0 | 3,422 | 22.4 | 2,971 | 19.5 | 1,279 | 8.4 |
| 1965 | 17,523 | 100.0 | 4,246 | 24.2 | 3,744 | 21.4 | 1,433 | 8.2 |
| 1970 | 20,199 | 100.0 | 4,332 | 21.4 | 4,030 | 20.0 | 1,466 | 7.3 |
| 1975 | 23,012 | 100.0 | 5,811 | 25.2 | 5,386 | 23.4 | 1,607 | 7.0 |
| 1980 | 26,299 | 100.0 | 6,168 | 23.5 | 5,747 | 21.9 | 1,531 | 5.8 |

Table B-3. Comparison of Major Findings of the National Surveys: 1955-1980

(U.S. population 12 years old and older Thousands)

| Characteristic and activity | 1955 | 1960 | 1965 | 1970 | 1975 | 1980 |
|-----------------------------|-----------|-----------|-----------|-----------|------------|------------|
| Total sportsmen | 24,917 | 30,435 | 32,881 | 36,277 | 45,773 | 46,966 |
| Fishermen | 20,813 | 25,323 | 28,348 | 33,158 | 41,299 | 41,873 |
| Freshwater | 18,420 | 21,677 | 23,962 | 29,363 | 36,599 | 37,081 |
| Saltwater | 4,557 | 6,292 | 8,305 | 9,460 | 13,738 | 13,332 |
| Hunters | 11,784 | 14,637 | 13,583 | 14,336 | 17,094 | 16,758 |
| Small game | 9,822 | 12,105 | 10,576 | 11,671 | 14,182 | 14,643 |
| Big game | 4,414 | 6,277 | 6,566 | 7,774 | 11,037 | 12,632 |
| Waterfowl | 1,986 | 1,955 | 1,650 | 2,894 | 4,284 | 3,190 |
| Expenditures | 2,850,979 | 3,852,116 | 4,046,440 | 7,101,531 | 16,768,256 | 27,213,642 |
| Fishermen | 1,914,292 | 2,690,872 | 2,925,304 | 4,958,883 | 11,797,742 | 18,052,292 |
| Freshwater | 1,425,353 | 2,064,680 | 2,125,652 | 3,734,178 | 8,702,373 | 14,440,919 |
| Saltwater | 488,939 | 626,191 | 799,656 | 1,224,705 | 3,095,369 | 3,611,373 |
| Hunters | 936,687 | 1,161,242 | 1,121,135 | 2,142,648 | 4,970,514 | 8,938,225 |
| Small game | 494,033 | 726,118 | 615,234 | 945,634 | 2,272,310 | 2,930,399 |
| Big game | 323,909 | 345,694 | 418,764 | 952,563 | 2,127,916 | 5,246,377 |
| Waterfowl | 118,745 | 89,431 | 87,136 | 244,451 | 570,288 | 761,449 |
| Days fishing and hunting | 566,870 | 658,308 | 708,578 | 909,876 | 1,459,551 | 1,388,461 |
| Fishing | 397,447 | 465,769 | 522,759 | 706,187 | 1,058,075 | 1,001,637 |
| Freshwater | 338,826 | 385,167 | 426,922 | 592,494 | 890,576 | 840,607 |
| Saltwater | 58,621 | 80,602 | 95,837 | 113,694 | 167,499 | 160,678 |
| Hunting | 169,423 | 192,539 | 185,819 | 203,689 | 401,476 | 387,287 |
| Small game | 118,630 | 138,192 | 128,448 | 124,041 | 269,653 | 285,122 |
| Big game | 30,834 | 39,190 | 43,845 | 54,536 | 100,600 | 121,698 |
| Waterfowl | 19,959 | 15,158 | 13,526 | 25,113 | 31,223 | 26,116 |

Appendix C Statistical Reliability Analysis

Sample Design

The 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation (FHWAR) was designed to provide State-level estimates of hunting and fishing participation rates and regional estimates for other forms of wildlife recreation (e.g., wildlife observation) referred to as nonconsumptive use. The study was conducted in two stages, an initial screening of households to identify participants and a followup enumeration of selected households with participants to collect detailed data about the household's wildlife-related recreation. The 1980 FHWAR sample was selected from expired Current Population Survey samples. As such, it is a multistaged stratified sample of the U.S. population.

Current Population Survey

The expired Current Population Survey (CPS) samples used for the 1980 FHWAR survey had been selected initially from the 1970 census files with coverage in all 50 States and the District of Columbia. The samples, while active, had been continually updated to reflect new construction. The CPS samples used were located in more than 630 areas comprising more than 1,100 counties, independent cities, and minor civil divisions in the Nation.

FHWAR Screening Sample¹

The screening sample consisted of roughly 143,000 households identified from expired CPS samples from July 1978 to June 1980.

Expired CPS sample households were accumulated until the desired sample size for each State was obtained. The sample in each State was expected to yield a minimum of 1,500 interviewed households. On the average, about 2,800 households per State were contacted. Of these roughly 14.5 percent were found to be vacant or otherwise not to be enumerated. Of the remaining households roughly 5.4 percent could not be enumerated because the occupants were not found at home after repeated calls or were unavailable for some other reason. Overall, 116,000 completed household interviews were obtained for a national response rate of approximately 94.6 percent. About 60 percent of the interviewed households were contacted by telephone and the remaining interviewed households were contacted by personal visit. Interviewing for the screening sample was completed in March 1981.

Detailed Samples¹

Sportsmen. The sportsmen sample was selected in the following manner: Each household was assigned a level of participation dependent upon the highest level of participation according to the screening interview. This procedure grouped households into two levels of participation, substantial households, that is, at least one household member fished or hunted for 30 days or more or spent more than \$500 for fishing or hunting and nonsubstantial households. These households were further grouped by hunter and nonhunter classifications.

Differential sampling rates were applied to the four strata such that one-third or one-fourth (depending upon the State) of the sportsman households in the nonsubstantial nonhunter stratum were revisited, one-half of the sportsman households in the nonsubstantial hunter stratum were revisited, and all of the sportsman households in the substantial hunter and nonhunter strata were revisited. Once a sportsman household was selected for detailed interviewing, all participants 16 years old and older, irrespective of their level of participation, were interviewed in detail. The detailed sportsmen sample consisted of roughly 460 households per State,² selected from households identified from the screening sample as containing a sportsman. On the average, about 700 sportsmen per State were selected for detailed interviewing. Of these, about 5 percent were incorrectly classified as active sportsmen during the screening phase. Of the remaining sportsmen, roughly 10 percent were not at home after repeated calls or were unavailable for some other reason, resulting in a response rate of 90 percent among eligible selected sportsmen. In all, about 30,300 detailed interviews with sportsmen

¹For a more complete description of the FHWAR sampling schemes, contact the Statistical Methods Division, Bureau of the Census, Washington, D.C. 20233

²The detailed sample sizes varied considerably by State, ranging from about 120 households for the District of Columbia to about 800 households for Texas

were completed. Preliminary analysis indicated that more than 5 percent of those screened as inactive may have been incorrectly classified as inactive during the screening phase. Including nonresponse to both the screening phase and the detailed phase as well as misclassification of sportsmen, the overall response rate was roughly 80 percent. Detailed interviewing was completed in June 1981.

Nonconsumptive Users. The detailed nonconsumptive user sample (interviewed at the same time as the sportsman sample) was a national subsample of households identified from the screening sample as containing at least one primary nonconsumptive user, that is, a household member 16 years old and older who took special interest in wildlife around the home, or on a trip. The nonconsumptive user national subsample was located in 461 of more than 630 areas that made up the national screening sample. One-half of the national subsample, roughly 1900 households, was selected from the sample of households containing sportsmen. These households had already been selected for detailed interviewing for the sportsmen sample. The other half was selected from the universe of households containing nonconsumptive users only. The sample was selected as follows: The sportsmen households, containing at least one nonconsumptive user, were sorted into 14 State clusters, and within each cluster, the households were stratified by substantial hunter, substantial nonhunter, nonsubstantial

hunter, and nonsubstantial nonhunter. The households were further sorted by triptaker and nontriptaker households (two categories of nonconsumptive users). The nonconsumptive user only households were sorted into the 14 State clusters and further sorted by triptaker and nontriptaker. Differential sampling was applied across the 14 State clusters so that a self-weighting national sample would result. Roughly 6,960 persons were designated for interviews. Of these, about 9 percent were incorrectly classified as active during the screening phase. Of the remaining nonconsumptive users, about 5 percent were not at home after repeated calls or were unavailable for some other reason, resulting in a response rate of 95 percent of eligible selected nonconsumptive users. In all, about 6,000 interviews with nonconsumptive users were completed. Preliminary analysis indicated that more than 9 percent of those screened as inactive may have been incorrectly classified during the screening phase. Including nonresponse to both the screening phase and the detailed phase as well as misclassification of nonconsumptive users, the overall response rate was roughly 82 percent.

Estimation Procedure

The estimation procedure for the three samples of the 1980 FHWAR survey involved the inflation of the weighted sample results to independent estimates of the population. A brief description of the

major weight components by sample is given below.

Screening Sample

Base weight. The reciprocal of the probability of selecting a household.

Household noninterview adjustment. A factor to adjust the weight assigned to interviewed households to account for households eligible for interview but for which an interview was not obtained.

First-stage adjustment. The more than 630 areas designated for our samples were selected from roughly 1,900 such areas of the United States. Some of our 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 nonself-representing. The first-stage factor reduced the component of variation arising out of sampling the nonself-representing areas.

Second-stage adjustment. This adjustment involved the inflation of the sample results to independently derived postcensal estimates of the civilian noninstitutional and nonbarrack military populations for the States. Overall, the second-stage ratio adjustment was 1.128.

Sportsman Sample

Base weight. The final person-tabulation weight developed from the weighting of the screening sample.

Stratum adjustment. This

factor inflated the weights of the sample households selected from the four level-of-participation categories to account for all households in the category.

Sportsman noninterview. This factor adjusted the weights of the interviewed sportsmen to account for sportsmen intended for interview but who for some reason were not interviewed.

Nonconsumptive User Sample

Base weight. The base weight applied to nonconsumptive users was a product of two components, a screening weight and a self-weighting adjustment. The procedure for developing the screening weight involved the application of the weight components shown for the screening sample above, however, the weight components were only applied to households from the 461 areas of the sample. The self-weighting factor adjusted the weight to account for the differential sampling of households within the clusters of States.

Nonconsumptive user noninterview adjustments. This factor adjusted the weights of the interviewed nonconsumptive users to account for nonconsumptive users intended for interview but who for some reason were not interviewed.

Reliability of Sample Estimates

The statistics³ that this survey produced are estimates derived from a sample and hence are apt to differ somewhat from the actual values being estimated. This occurs because there are two types of errors possible in an estimate based on a sample survey—sampling errors and nonsampling errors.

Nonsampling Errors

Let us suppose that a comparable complete enumeration was conducted, that is, an interview is attempted for every person 16 years old and older in the United States. Chances are we would still not correctly estimate every parameter (for example, the proportion of persons who fished) under consideration. In this instance, the difference is due solely to nonsampling errors. Nonsampling errors occur also in sample surveys and can be attributed to many sources, including inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness on the part of the respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in

processing the data, and errors made in estimating values for missing data. Explicit measures of these errors are generally not available. It is believed that most of the important operational and out-of-range response errors were detected and corrected in the course of the Census Bureau's review of the data for accuracy and consistency. Unfortunately, some response and operational errors may remain.

Another source of error in sample surveys is the failure to represent all units with the sample (undercoverage). There were two particular undercoverage problems in this survey: sample attrition, that is, loss of the original sample due to nonreturns from the field, processing, etc., and failure to represent new construction in the sampling frame for the period roughly between July 1978 and June 1980. Overall undercoverage as compared to the level of the 1980 decennial census is about 12.8 percent. Generally, undercoverage is larger for males than for females and larger for blacks and other races combined than for whites. Ratio estimation to independent age-sex-race 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 than interviewed persons in the same age-sex-race group.

A coverage improvement sample was included with the CPS samples beginning in 1978 in order to provide

coverage of mobile homes and new construction housing units, which previously had no chance for selection in the CPS sample. The inclusion of this coverage improvement sample in the FHWAR does not have a significant effect on the estimates.

Sampling Errors

The particular sample used for the 1980 FHWAR survey is one of a large number of all possible probability samples of the same size that could have been selected using the same sample design. Estimates derived from the different samples would differ from each other. The expected deviation of a sample result from the average of all possible samples is called the sampling error. The exact sampling error is unknown; however, guides to the potential size of the sampling error are provided by the standard error of the estimate.

The standard error of a survey estimate attempts to provide a measure of this variation among the estimates from the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The standard errors that were calculated for this survey also partially measure the effect of variable nonsampling errors but do not measure any systematic biases in the data.

The estimate and its associated standard error may be used to construct a confidence interval, that is, an interval having a prescribed probability that it would include the

average result of all possible samples. The chances are about 95 out of 100 (95 percent) that the interval from two standard errors below the estimate to two standard errors above the estimate would include the average value of all possible samples. Of course, any particular 95-percent confidence interval may or may not contain the average value of all possible samples. But for a particular sample, one can say with 95-percent confidence that the average of all possible samples is included in the constructed interval. Also frequently used are 68-percent and 99-percent confidence intervals, which are obtained by constructing a one standard error interval (plus or minus) and a 2½ standard error interval (plus or minus), respectively, about the estimate. The chances are about 2 out of 3 that the average result of all possible samples is contained in the 68-percent confidence interval and 99 out of 100 that the average value of all possible samples is included in the 99-percent confidence interval.

Standard Error Tables and Their Use

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. Therefore, instead of providing an individual standard error for each estimate, generalized sets of standard errors are provided for various types of characteristics. As a result, the sets of standard errors provided give an indication of the

³Statistics for the population 6 years old and older, 6-15 years old, 9 years old and older, and 12 years old and older were derived from the screening interviews; statistics for the population 16 years old and older were derived from the detailed interviews.

order of magnitude of the sampling error of an estimate rather than the precise sampling error.

The figures presented in the generalized tables C-1 through C-15 are approximations to standard errors of various estimates shown in the report. Standard errors for intermediate values not shown in the generalized tables of standard errors may be approximated by interpolation. Table C-17 presents the actual standard errors for some characteristics shown in the report.

Two or three parameters are used (denoted a , b , and c) to calculate standard errors for each type of characteristic in the generalized standard error tables; they are presented in tables C-18 through C-21. These parameters were used to calculate the standard errors for numbers and percentages of sportsmen, fishermen, or nonconsumptive users and the aggregates, trips, days, and expenditures. Direct computation of the standard errors will give more accurate results than the use of the standard error tables. Methods for direct computation are given in the following sections.

Standard Errors of Estimated Numbers

The approximate standard error σ_x of an estimated number shown in this report can be obtained in two ways. It may be obtained by use of the generalized standard error tables or formulas 1 or 2. Formula 1 is used for standard errors of levels of sportsmen, fishermen, hunters, or nonconsumptive users.

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

where x is the size of the estimate and a and b are the parameters in the table associated with the particular characteristic. Use of this formula will provide more accurate results than the use of the generalized standard error tables.

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

Formula 2 is used for standard errors of the aggregates, trips, days, and expenditures. Here x is again the size of the estimates; y is the base of the estimate; and a , b , and c are the parameters in the tables associated with the particular characteristics.

Illustration of the Computation of the Standard Error of an Estimated Number. Table 1 of this report shows that 46,712,652 persons 16 years old and older either fished or hunted. Using formula 1 and the parameters $a = -.00002727$ and $b = 4,611$ from table C-19, the estimate of the standard error is

$$\begin{aligned} \sigma_x &= [(-.00002727)(46,712,652)^2 \\ &\quad + (4,611)(46,712,652)]^{1/2} \\ &\doteq 394,800^4 \end{aligned}$$

This means that the chances are 68 out of 100 that the estimate would have been a figure differing from the average of all possible samples by less than 394,800.⁴ Similarly, the chances are 95 out of 100 that the

⁴Interpolating in table 2 gives an approximate standard error of 394,000

estimate would have been a figure differing from the average of all possible samples by less than 789,600 (twice the standard error); that is, the 95-percent confidence interval for the number of persons 16 years old and older who either fished or hunted is from 45,923,052 to 47,502,252.

Table 2 shows that 42,058,866 fishermen 16 years old and older engaged in 857,565,623 days of participation in all fishing. Using formula 2 and the parameters $a = .00002204$, $b = 95,029$, and $c = 6871$ from table C-21, the estimated of the standard error is

$$\begin{aligned} \sigma_x &= [(.00002204)(857,565,623)^2 \\ &\quad + (95,029)(857,565,623) \\ &\quad + \frac{(6,871)(857,565,623)^2}{42,058,866}]^{1/2} \\ &\doteq 14,760,000 \end{aligned}$$

The chances are 68 out of 100 that the estimate would have been a figure differing from the average of all possible samples by less than 14,760,000. The chances are 95 out of 100 that the estimate would have been a figure differing from the average of all possible samples by less than 29,520,000 (twice the standard error); that is, the 95-percent confidence interval for the number of days of participation for all fishermen 16 years old and older is from 828,045,623 to 887,086,623.

Table 46 shows that there were 64,566 residents of the State of Nevada, aged 16 and older, who hunted in 1980. Using formula 1 and the parameters $a = -.0008712$ and

$b = 547$ from table C-19, the estimate of the standard error is

$$\begin{aligned} \sigma_x &= [(-.0008712)(64,566)^2 \\ &\quad + (547)(64,566)]^{1/2} \\ &\doteq 5,630 \end{aligned}$$

Using standard error table C-9 and the factor shown for the State of Nevada in table C-19, the estimate of the standard error is approximately 5,800 (i.e., $11,165 \times .52$).

Standard Errors of Estimated Percentages

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which this percentage is based. 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. Linear interpolation in the tables of standard errors of percentages may be used to obtain standard errors for intermediate values of x and p . Or formula 3, from which the tabulated standard errors $\sigma_{(x,p)}$ are computed, can be used directly. Direct computation will give more accurate results than linear interpolation. Formula 3 must be used to compute standard errors of percentages for all aggregate estimates.

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

Here x is the size of the subclass of sportsmen, hunters, days, etc., which

is the base of the percentage, p is the percentage ($0 \leq p \leq 100$), and b is the parameter in the tables associated with the particular characteristic in the numerator of the percentage.

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

Table 2 of this report shows that of the 751,197,444 total trips taken by fishermen 16 years old and older, 15.0 percent were trips of 2 or more days. From table C-21 the appropriate b parameter is 95,029. Using formula 3, the approximate standard error of 15.0 percent is

$$\sigma_{(x,p)} = \left[\frac{95,029}{751,197,444} (15.0) \cdot (100.0 - 15.0) \right]^{1/2}$$

$$= 0.4 \text{ percent}$$

This means that the 68-percent confidence interval for the percentage of trips of 2 or more days, 15.0 percent, is from 14.6 to 15.4 percent, and the 95-percent confidence interval is from 14.2 to 15.8 percent, that is, $15.0 \pm (2)(0.4)$.

Standard Errors of Estimated Averages

Certain mean values for sportsmen, fishermen, etc. shown in the report were calculated as the ratio of two numbers. For example average days per fisherman is calculated as:

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

Standard errors for these averages

may be approximated by the use of formula 4.

$$\sigma_{x/y} = \left[\left(\frac{x}{y} \right)^2 \left(\frac{\sigma_x^2}{x^2} + \frac{\sigma_y^2}{y^2} - 2\rho \frac{\sigma_x}{x} \frac{\sigma_y}{y} \right) \right]^{1/2} \quad (4)$$

In formula 4, ρ represents the correlation coefficient between the numerator and the denominator of the estimate. In the above example and for other ratios of this kind, use 0.7 as an estimate of ρ .

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

Table 2 of the report shows that the average days per fishermen 16 years old and older for all fishing was 20.0 days. Using formulas 1 and 2 above, we compute the standard error on total days and total fishermen to be 14,760,000 and 381,700 respectively. The standard error on the average $\sigma_{x/y}$ is

$$\sigma_{x/y} = \left[\left(\frac{857,565,623}{42,058,866} \right)^2 \cdot \left[\frac{381,700^2}{42,058,866^2} + \frac{14,760,000^2}{857,565,623^2} - 2(0.7) \frac{381,700}{42,058,866} \cdot \frac{14,760,000}{857,565,623} \right] \right]^{1/2}$$

$$= 0.3$$

The chances are 68 out of 100 that the average would have been a figure differing from the average of all possible samples by less than 0.3. The chances are 95 out of 100 that the average would have been a figure differing from the average of all possible samples by less than 0.6 (twice the standard error); that is, the 95-percent confidence interval for average days per fishermen 16 years old and older is from 19.4 to 20.6.

Table C-1. Standard Errors of National Estimated Numbers of Sportsmen, Fishermen, or Hunters

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from populations 6 years old and older, 6-15 years old, 9 years old and older, and 12 years old and older)

| Size of estimate | Standard error |
|------------------|----------------|
| 5 | 3 |
| 10 | 4 |
| 15 | 5 |
| 25 | 6 |
| 50 | 9 |
| 100 | 12 |
| 250 | 19 |
| 500 | 27 |
| 1,000 | 39 |
| 2,500 | 61 |
| 5,000 | 86 |
| 10,000 | 120 |
| 20,000 | 165 |
| 40,000 | 220 |
| 60,000 | 253 |

Table C-2. Standard Errors of Estimated Percentages of Sportsmen, Fishermen, or Hunters

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from populations 6 years old and older, 6-15 years old, 9 years old and older, and 12 years old and older)

| Estimated percentage | Base of percentage | | | | | | | | | | |
|----------------------|--------------------|-----|-----|-----|-------|-------|-------|--------|--------|--------|--------|
| | 50 | 100 | 250 | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 20,000 | 40,000 | 60,000 |
| 1 or 99 | 1.7 | 1.2 | 0.8 | 0.5 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.05 |
| 2 or 98 | 2.4 | 1.7 | 1.1 | 0.8 | 0.5 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 5 or 95 | 3.8 | 2.7 | 1.7 | 1.2 | 0.8 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 |
| 10 or 90 | 5.2 | 3.7 | 2.3 | 1.6 | 1.2 | 0.7 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 |
| 15 or 85 | 6.2 | 4.4 | 2.8 | 2.0 | 1.4 | 0.9 | 0.6 | 0.4 | 0.3 | 0.2 | 0.2 |
| 25 or 75 | 7.5 | 5.3 | 3.4 | 2.4 | 1.7 | 1.1 | 0.8 | 0.5 | 0.4 | 0.3 | 0.2 |
| 50 | 8.7 | 6.1 | 3.9 | 2.7 | 1.9 | 1.2 | 0.9 | 0.6 | 0.4 | 0.3 | 0.3 |

Table C-3. Standard Errors for State Estimates of Sportsmen, Fishermen, or Hunters

(68 chances out of 100. Numbers in thousands. Applicable only to estimates for populations 6 years old and older, 6-15 years old, 9 years old and older, and 12 years old and older)

| Size of estimate | Standard error |
|------------------|----------------|
| 3 | 2 |
| 5 | 3 |
| 10 | 4 |
| 25 | 6 |
| 50 | 9 |
| 100 | 12 |
| 250 | 19 |
| 500 | 25 |
| 1,000 | 33 |

Note: These standard errors must be used with the factors listed in table C-18. For standard errors of percentages of fishermen or hunters for State estimates, apply the appropriate factor from table C-18 to the standard errors in table C-2.

Table C-4. Standard Errors of National Estimated Numbers of Sportsmen or Fishermen

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Size of estimate | Standard error |
|------------------|----------------|
| 15 | 8 |
| 25 | 11 |
| 50 | 15 |
| 100 | 21 |
| 250 | 34 |
| 500 | 48 |
| 1,000 | 68 |
| 2,500 | 107 |
| 5,000 | 150 |
| 10,000 | 208 |
| 15,000 | 251 |
| 20,000 | 285 |
| 30,000 | 337 |
| 40,000 | 375 |
| 50,000 | 403 |

Table C-5. Standard Errors of Estimated Percentages of Sportsmen or Fishermen

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Estimated percentage | Base of Percentage | | | | | | | | | | |
|----------------------|--------------------|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 250 | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 15,000 | 20,000 | 30,000 | 40,000 | 50,000 |
| 1 or 99 | 1.4 | 1.0 | 0.7 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| 2 or 98 | 1.9 | 1.3 | 1.0 | 0.6 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 |
| 5 or 95 | 3.0 | 2.1 | 1.5 | 0.9 | 0.7 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 |
| 10 or 90 | 4.1 | 2.9 | 2.0 | 1.3 | 0.9 | 0.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 |
| 15 or 85 | 4.8 | 3.4 | 2.4 | 1.5 | 1.1 | 0.8 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 |
| 25 or 75 | 5.9 | 4.2 | 2.9 | 1.9 | 1.3 | 0.9 | 0.8 | 0.7 | 0.5 | 0.5 | 0.4 |
| 50 | 6.8 | 4.8 | 3.4 | 2.1 | 1.5 | 1.1 | 0.9 | 0.8 | 0.6 | 0.5 | 0.5 |

Table C-6. Standard Errors for State Estimates of Sportsmen or Fishermen

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Size of the estimate | Standard error |
|----------------------|----------------|
| 10 | 7 |
| 15 | 8 |
| 25 | 11 |
| 50 | 15 |
| 100 | 21 |
| 250 | 32 |
| 500 | 43 |
| 1,000 | 54 |

Note: These standard errors must be used with the factors listed in table C-19. For State estimates greater than 1 million use formula I and the parameters in table C-19 to determine the standard errors of the estimates. For standard errors of percentages of sportsmen or fishermen for State estimates, apply the appropriate factors from table C-19 to the standard errors in table C-5.

Table C-7. Standard Errors of National Estimated Numbers of Hunters

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Size of estimate | Standard error |
|------------------|----------------|
| 5 | 3 |
| 10 | 4 |
| 15 | 5 |
| 25 | 7 |
| 50 | 10 |
| 100 | 14 |
| 250 | 22 |
| 500 | 32 |
| 1,000 | 45 |
| 2,500 | 70 |
| 5,000 | 99 |
| 10,000 | 137 |
| 15,000 | 165 |
| 20,000 | 188 |

Table C-8. Standard Errors of Estimated Percentages of Hunters

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Estimated percentage | Base of percentage | | | | | | | | | |
|----------------------|--------------------|-----|-----|-----|-------|-------|-------|--------|--------|--------|
| | 50 | 100 | 250 | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 15,000 | 20,000 |
| 1 or 99 | 2.0 | 1.4 | 0.9 | 0.6 | 0.4 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 |
| 2 or 98 | 2.8 | 2.0 | 1.3 | 0.9 | 0.6 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 |
| 5 or 95 | 4.4 | 3.1 | 1.9 | 1.4 | 1.0 | 0.6 | 0.4 | 0.3 | 0.3 | 0.2 |
| 10 or 90 | 6.0 | 4.2 | 2.7 | 1.9 | 1.3 | 0.8 | 0.6 | 0.4 | 0.3 | 0.3 |
| 15 or 85 | 7.1 | 5.1 | 3.2 | 2.3 | 1.6 | 1.0 | 0.7 | 0.5 | 0.4 | 0.4 |
| 25 or 75 | 8.7 | 6.1 | 3.9 | 2.7 | 1.9 | 1.2 | 0.9 | 0.6 | 0.5 | 0.4 |
| 50 | 10.0 | 7.1 | 4.5 | 3.2 | 2.2 | 1.4 | 1.0 | 0.7 | 0.6 | 0.5 |

Table C-9. Standard Errors for State Estimates of Hunters

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Size of the estimate | Standard error |
|----------------------|----------------|
| 10 | 4 |
| 15 | 5 |
| 25 | 7 |
| 50 | 10 |
| 100 | 14 |
| 250 | 21 |
| 500 | 29 |

Note: These standard errors must be used with the factors in table C-19. For State estimates greater than 500,000, use formula 1 and the parameters in table C-19 to determine the standard errors of the estimates. For standard errors of percentages of hunters for State estimates, apply the appropriate factor from table C-19 to the standard errors in table C-8.

Table C-10. Standard Errors for Estimated Number of Trips or Days of Participation for Sportsmen or Fishermen

(68 chances out of 100. Numbers in ten thousands. Applicable only to estimates from the population 16 years old and older)

[illegible]

Table C-11. Standard Errors for Estimated Number of Trips or Days of Participation for Hunters

(68 chances out of 100. Numbers in ten thousands. Applicable only to estimates from the population 16 years old and older)

| Base of the estimate | Estimated number of trips or days | | | | | | | | | | |
|----------------------|-----------------------------------|----|-----|-----|-----|-------|-------|-------|--------|--------|--------|
| | 25 | 50 | 100 | 250 | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 20,000 | 40,000 |
| 10 | 9 | 15 | 27 | 63 | | | | | | | |
| 25 | 7 | 12 | 20 | 43 | 81 | | | | | | |
| 50 | | | 17 | 34 | 61 | 115 | | | | | |
| 100 | | | | 28 | 47 | 86 | 200 | | | | |
| 250 | | | | | 37 | 62 | 135 | 254 | | | |
| 500 | | | | | | 52 | 105 | 190 | 357 | | |
| 1,000 | | | | | | | 86 | 147 | 264 | 496 | |
| 1,500 | | | | | | | | 129 | 225 | 412 | 783 |
| 1,750 | | | | | | | | | | 384 | 724 |

Note: For standard errors of State estimates of days, use the parameters shown in table C-21.

Table C-12. Standard Errors for Estimated Expenditures for Sportsmen or Fishermen

(68 chances out of 100. Numbers in ten thousands. Applicable only to estimates from the population 16 years old and older)

| Base of the estimate | Estimated expenditures (dollars) | | | | | | | | | | | | | | | |
|----------------------|----------------------------------|-----|-----|-----|-------|-------|-------|--------|--------|--------|---------|---------|---------|-----------|-----------|-----------|
| | 50 | 100 | 250 | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 25,000 | 50,000 | 100,000 | 250,000 | 500,000 | 1,000,000 | 2,000,000 | 2,700,000 |
| 10 | 34 | 55 | 113 | 210 | 401 | 973 | | | | | | | | | | |
| 25 | 31 | 47 | 87 | 150 | 272 | 635 | 1,237 | | | | | | | | | |
| 50 | | 44 | 76 | 124 | 212 | 471 | 898 | 1,750 | | | | | | | | |
| 100 | | | 70 | 108 | 175 | 362 | 666 | 1,270 | 3,080 | | | | | | | |
| 250 | | | | 97 | 148 | 277 | 475 | 862 | 2,012 | 3,923 | | | | | | |
| 500 | | | | | | 242 | 392 | 674 | 1,495 | 2,854 | 5,565 | 13,695 | | | | |
| 1,000 | | | | | | | 343 | 556 | 1,153 | 2,126 | 4,059 | 9,847 | 19,489 | | | |
| 2,000 | | | | | | | | 937 | 1,645 | | 3,038 | 7,187 | 14,093 | 27,900 | 55,512 | 74,840 |
| 4,700 | | | | | | | | | | | 2,250 | 5,063 | 9,722 | 19,027 | 37,630 | 50,651 |

Table C-13. Standard Errors for Estimated Expenditures for Hunters

(68 chances out of 100. Numbers in ten thousands. Applicable only to estimates from the population 16 years old and older)

| Base of the estimate | Estimated expenditures (dollars) | | | | | | | | | | | | | | | |
|----------------------------|----------------------------------|----|-----|-----|-----|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|---------|
| | 25 | 50 | 100 | 250 | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 25,000 | 50,000 | 100,000 | 200,000 | 400,000 | 600,000 | 900,000 |
| 10 | 11 | 18 | 33 | 76 | 149 | 293 | 726 | | | | | | | | | |
| 25 | 9 | 14 | 24 | 52 | 98 | 189 | 463 | 920 | | | | | | | | |
| 50 | | 13 | 20 | 41 | 74 | 138 | 332 | 655 | 1,301 | | | | | | | |
| 100 | | | 18 | 34 | 58 | 104 | 242 | 470 | 927 | 2,296 | 4,579 | | | | | |
| 250 | | | | 29 | 46 | 76 | 164 | 309 | 598 | 1,464 | 2,908 | 5,794 | | | | |
| 500 | | | | | 41 | 64 | 129 | 232 | 437 | 1,049 | 2,069 | 4,108 | 8,186 | | | |
| 1,000 | | | | | | | 107 | 182 | 328 | 761 | 1,482 | 2,921 | 5,799 | 11,555 | | |
| 1,400 | | | | | | | | | | 656 | 1,264 | 2,479 | 4,908 | 9,765 | 14,622 | 21,908 |
| 1,700 | | | | | | | | | | | 1,156 | 2,257 | 4,459 | 8,862 | 13,264 | 19,868 |

Table C-14. Standard Errors of Estimated Numbers of Nonconsumptive Users

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Size of the estimate | Standard error |
|-------------------------|-------------------|
| 50 | 31 |
| 100 | 44 |
| 250 | 69 |
| 500 | 98 |
| 1,000 | 139 |
| 2,500 | 221 |
| 5,000 | 315 |
| 10,000 | 452 |
| 15,000 | 561 |
| 25,000 | 745 |
| 50,000 | 1,120 |
| 80,000 | 1,511 |
| 94,000 | 1,684 |

Note: For standard errors of regional estimates of nonconsumptive users 16 years old and older, multiply the appropriate factor from table C-16 by the standard error in this table.

Table C-15. Standard Errors of Estimated Percentages of Nonconsumptive Users

(68 chances out of 100. Numbers in thousands. Applicable only to estimates from the population 16 years old and older)

| Estimated percentage | Base of percentage | | | | | | | | | |
|----------------------|--------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| | 500 | 1,000 | 2,500 | 5,000 | 10,000 | 15,000 | 25,000 | 50,000 | 80,000 | 94,000 |
| 1 or 99 | 2.0 | 1.4 | 0.9 | 0.6 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 |
| 2 or 98 | 2.7 | 1.9 | 1.2 | 0.9 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 |
| 5 or 95 | 4.3 | 3.0 | 1.9 | 1.4 | 1.0 | 0.8 | 0.6 | 0.4 | 0.3 | 0.3 |
| 10 or 90 | 5.9 | 4.2 | 2.6 | 1.9 | 1.3 | 1.1 | 0.8 | 0.6 | 0.5 | 0.4 |
| 15 or 85 | 7.0 | 5.0 | 3.1 | 2.2 | 1.6 | 1.3 | 1.0 | 0.7 | 0.6 | 0.5 |
| 25 or 75 | 8.5 | 6.0 | 3.8 | 2.7 | 1.9 | 1.6 | 1.2 | 0.9 | 0.7 | 0.6 |
| 50 | 9.8 | 6.9 | 4.4 | 3.1 | 2.2 | 1.8 | 1.4 | 1.0 | 0.8 | 0.7 |

Note: For standard errors of regional estimates of percentages of nonconsumptive users 16 years old or older, multiply the appropriate factor from table C-16 by the standard error obtained in this table.

Table C-16: Factors for Obtaining Standard Errors of Regional Estimates

| Region | Factor |
|--------------------|--------|
| New England | 1.11 |
| Middle Atlantic | 1.08 |
| East North Central | 1.41 |
| West North Central | 1.24 |
| South Atlantic | 1.10 |
| East South Central | 1.21 |
| West South Central | 0.97 |
| Mountain | 1.03 |
| Pacific | 1.09 |

Table C-17. Standard Errors for Selected Nonconsumptive-Use Items in Tables 50, 51 and 55

(68 chances out of 100. U.S. population 16 years old and older)

| Item | Standard error of the estimate (thousands) |
|------------------------------|--|
| TABLE 50 | |
| Trips, total | 20,818 |
| 1 day | 20,083 |
| 2 or more days | 3,714 |
| In-State | 19,291 |
| 1 day | 18,864 |
| 2 or more days | 2,672 |
| Out-of-State | 3,191 |
| 1 day | 2,311 |
| 2 or more days | 1,492 |
| Other countries | 1,574 |
| 1 day | 690 |
| 2 or more days | 1,450 |
| TABLE 51 | |
| Days of participation, total | 21,880 |
| Observing | 22,366 |
| Photographing | 5,186 |
| Feeding | 12,417 |
| Scouting ¹ | 3,533 |
| TABLE 56 | |
| Expenditures, total | 102,741 |
| Food and drink | 95,039 |
| Lodging | 58,358 |
| Transportation: | |
| Public | 66,988 |
| Private | 82,645 |
| Guide fees | 7,409 |
| Pack trip | 6,764 |
| Land-use fees: | |
| Public | 7,479 |
| Private | 6,200 |
| Equipment rental | 22,819 |

¹Includes other countries.

Table C-18. a and b Parameters and Factors for Calculating Approximate Standard Errors for Sportsmen, Fishermen, or Hunters 6 Years Old and Older, 6-15 Years Old, 9 Years Old and Older, and 12 Years Old and Older

| State | a | b | Factor |
|----------------------|-----------------|-------|--------|
| UNITED STATES | -.0000073584093 | 1,504 | |
| Alabama | -.0004580 | 1,599 | 1.03 |
| Alaska | -.0005435 | 178 | 0.34 |
| Arizona | -.0004241 | 1,057 | 0.84 |
| Arkansas | -.0004540 | 931 | 0.79 |
| California | -.0001993 | 4,286 | 1.69 |
| Colorado | -.0004635 | 1,204 | 0.89 |
| Connecticut | -.0004261 | 1,206 | 0.90 |
| Delaware | -.0004718 | 250 | 0.41 |
| District of Columbia | -.0005183 | 294 | 0.44 |
| Florida | -.0002668 | 2,447 | 1.28 |
| Georgia | -.0003720 | 1,824 | 1.10 |
| Hawaii | -.0004448 | 366 | 0.49 |
| Idaho | -.0005524 | 457 | 0.55 |
| Illinois | -.0002678 | 2,737 | 1.35 |
| Indiana | -.0004013 | 1,974 | 1.15 |
| Iowa | -.0004679 | 1,211 | 0.90 |
| Kansas | -.0004827 | 1,011 | 0.82 |
| Kentucky | -.0004548 | 1,481 | 0.99 |
| Louisiana | -.0004205 | 1,582 | 1.03 |
| Maine | -.0005562 | 558 | 0.61 |
| Maryland | -.0003367 | 1,277 | 0.92 |
| Massachusetts | -.0002084 | 1,087 | 0.85 |
| Michigan | -.0002592 | 2,155 | 1.20 |
| Minnesota | -.0004213 | 1,547 | 1.01 |

Table C-18. *a* and *b* Parameters and Factors for Calculating Approximate Standard Errors for Sportsmen, Fishermen, or Hunters 6 Years Old and Older, 6-15 Years Old, 9 Years Old and Older, and 12 Years Old and Older— Cont.

| State | <i>a</i> | <i>b</i> | Factor |
|----------------|-----------|----------|--------|
| Mississippi | -.0004478 | 998 | 0.81 |
| Missouri | -.0004000 | 1,773 | 1.09 |
| Montana | -.0005389 | 373 | 0.50 |
| Nebraska | -.0005747 | 798 | 0.73 |
| Nevada | -.0004581 | 344 | 0.48 |
| New Hampshire | -.0005069 | 425 | 0.53 |
| New Jersey | -.0002122 | 1,421 | 0.97 |
| New Mexico | -.0004887 | 565 | 0.61 |
| New York | -.0002082 | 3,298 | 1.48 |
| North Carolina | -.0001948 | 1,031 | 0.83 |
| North Dakota | -.0005784 | 327 | 0.47 |
| Ohio | -.0002678 | 2,597 | 1.31 |
| Oklahoma | -.0004575 | 1,246 | 0.91 |
| Oregon | -.0004660 | 1,126 | 0.87 |
| Pennsylvania | -.0002665 | 2,875 | 1.38 |
| Rhode Island | -.0004654 | 395 | 0.51 |
| South Carolina | -.0003931 | 1,092 | 0.85 |
| South Dakota | -.0006233 | 375 | 0.50 |
| Tennessee | -.0003545 | 1,483 | 0.99 |
| Texas | -.0002009 | 2,580 | 1.31 |
| Utah | -.0004698 | 592 | 0.63 |
| Vermont | -.0005876 | 274 | 0.43 |
| Virginia | -.0003787 | 1,793 | 1.09 |
| Washington | -.0004209 | 1,592 | 1.03 |
| West Virginia | -.0004768 | 841 | 0.75 |
| Wisconsin | -.0003390 | 1,440 | 0.98 |
| Wyoming | -.0005312 | 227 | 0.39 |

C-19. a and b Parameters and Factors for Calculating Approximate Standard Errors for Sportsmen, Fishermen, or Hunters, 16 Years Old and Older

| State | Sportsmen or Fishermen | | Hunters | | Factors |
|----------------------|------------------------|--------|----------------|-------|---------|
| | a | b | a | b | |
| UNITED STATES | -.00002727145 | 4,611 | -.000011834760 | 2,001 | |
| Alabama | -.0016540 | 4,707 | -.007123 | 2,062 | 1.01 |
| Alaska | -.0022167 | 577 | -.0009835 | 256 | 0.35 |
| Arizona | -.0017468 | 3,583 | -.0007605 | 1,560 | 0.88 |
| Arkansas | -.0017910 | 3,015 | -.0007835 | 1,319 | 0.81 |
| California | -.0008952 | 16,115 | -.0003891 | 7,004 | 1.87 |
| Colorado | -.0017855 | 3,847 | -.0007844 | 1,690 | 0.91 |
| Connecticut | -.0017930 | 4,227 | -.0007779 | 1,834 | 0.96 |
| Delaware | -.0021223 | 930 | -.0009197 | 403 | 0.45 |
| District of Columbia | -.0024566 | 1,202 | -.0010668 | 522 | 0.51 |
| Florida | -.0011367 | 8,879 | -.0004955 | 3,870 | 1.39 |
| Georgia | -.0014848 | 5,900 | -.0006495 | 2,581 | 1.13 |
| Hawaii | -.0019914 | 1,342 | -.0008636 | 582 | 0.54 |
| Idaho | -.0021324 | 1,424 | -.0009344 | 624 | 0.56 |
| Illinois | -.0011873 | 10,034 | -.0005169 | 4,368 | 1.48 |
| Indiana | -.0014207 | 5,728 | -.0006196 | 2,498 | 1.11 |
| Iowa | -.0017440 | 3,744 | -.0007667 | 1,646 | 0.90 |
| Kansas | -.0018469 | 3,234 | -.0008110 | 1,420 | 0.84 |
| Kentucky | -.0016780 | 4,469 | -.0007378 | 1,965 | 0.98 |
| Louisiana | -.0014834 | 4,498 | -.0006474 | 1,963 | 0.99 |
| Maine | -.0019811 | 1,632 | -.0008643 | 712 | 0.59 |
| Maryland | -.0014445 | 4,522 | -.0006277 | 1,965 | 0.99 |
| Massachusetts | -.0009935 | 4,338 | -.0004312 | 1,883 | 0.97 |
| Michigan | -.0009802 | 6,644 | -.0004275 | 2,898 | 1.20 |
| Minnesota | -.0015054 | 4,567 | -.0006626 | 2,010 | 1.00 |

C-19. a and b Parameters and Factors for Calculating Approximate Standard Errors for Sportsmen, Fishermen, or Hunters, 16 Years Old and Older—Cont.

| State | Sportsmen or Fishermen | | Hunters | | Factors |
|----------------|------------------------|--------|-----------|-------|---------|
| | a | b | a | b | |
| Mississippi | -.0016708 | 2,977 | -.0007307 | 1,302 | 0.80 |
| Missouri | -.0014361 | 5,297 | -.0006274 | 2,314 | 1.07 |
| Montana | -.0020200 | 1,153 | -.000882 | 507 | 0.50 |
| Nebraska | -.0020420 | 2,351 | -.0008972 | 1,033 | 0.71 |
| Nevada | -.0019908 | 1,250 | -.0008712 | 547 | 0.52 |
| New Hampshire | -.0017747 | 1,227 | -.0007695 | 532 | 0.52 |
| New Jersey | -.0009113 | 5,071 | -.0003970 | 2,209 | 1.05 |
| New Mexico | -.0020653 | 1,922 | -.0009016 | 839 | 0.65 |
| New York | -.0009056 | 11,982 | -.0003938 | 5,210 | 1.61 |
| North Carolina | -.0014916 | 6,490 | -.0006578 | 2,862 | 1.19 |
| North Dakota | -.0022329 | 1,041 | -.0009824 | 458 | 0.48 |
| Ohio | -.0011205 | 8,952 | -.0004874 | 3,894 | 1.39 |
| Oklahoma | -.0018690 | 4,224 | -.0008150 | 1,842 | 0.96 |
| Oregon | -.0019483 | 3,936 | -.0008494 | 1,716 | 0.92 |
| Pennsylvania | -.0009306 | 8,405 | -.0004048 | 3,656 | 1.35 |
| Rhode Island | -.0019992 | 1,424 | -.0008676 | 618 | 0.56 |
| South Carolina | -.0017290 | 3,893 | -.0007546 | 1,699 | 0.92 |
| South Dakota | -.0018336 | 908 | -.0008118 | 402 | 0.44 |
| Tennessee | -.0015695 | 5,419 | -.0006873 | 2,373 | 1.08 |
| Texas | -.0009118 | 9,535 | -.0003990 | 4,173 | 1.43 |
| Utah | -.0019509 | 1,937 | -.0008601 | 854 | 0.65 |
| Vermont | -.0020442 | 786 | -.0008869 | 341 | 0.41 |
| Virginia | -.0015908 | 6,213 | -.0007087 | 2,768 | 1.16 |
| Washington | -.0018140 | 5,712 | -.0007962 | 2,507 | 1.11 |
| West Virginia | -.0017785 | 2,586 | -.0007744 | 1,126 | 0.75 |
| Wisconsin | -.0013651 | 4,778 | -.0006031 | 2,111 | 1.02 |
| Wyoming | -.0021904 | 766 | -.0009580 | 335 | 0.41 |

Table C-20. a, b, and c Parameters for Calculating Approximate Standard Errors for Expenditures

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

| State | Sportsmen or Fishermen | | | Hunters | | |
|----------------------|------------------------|---------|--------|-------------|--------|--------|
| | a | b | c | a | b | c |
| UNITED STATES | .00003754 | 160,256 | 14,497 | -.000006297 | 24,875 | 8,345 |
| Alabama | .0022604 | 162,411 | 14,724 | -.0003792 | 25,239 | 8,490 |
| Alaska | .0030000 | 19,714 | 1,793 | -.0005042 | 3,069 | 1,036 |
| Arizona | .0023986 | 124,223 | 11,246 | -.0004021 | 19,290 | 6,477 |
| Arkansas | .0024505 | 104,154 | 9,439 | -.0004111 | 16,183 | 5,442 |
| California | .0012310 | 559,480 | 50,628 | -.0002063 | 86,858 | 29,151 |
| Colorado | .0024353 | 132,481 | 12,017 | -.0004087 | 20,594 | 6,933 |
| Connecticut | .0024682 | 146,912 | 13,290 | -.0004136 | 22,804 | 7,650 |
| Delaware | .0029195 | 32,301 | 2,922 | -.0004893 | 5,014 | 1,682 |
| District of Columbia | .0033818 | 41,779 | 3,779 | -.0005667 | 6,485 | 2,176 |
| Florida | .0015596 | 307,572 | 27,851 | -.0002615 | 47,767 | 16,045 |
| Georgia | .0020315 | 203,818 | 18,471 | -.0003408 | 31,668 | 10,648 |
| Hawaii | .0027413 | 46,643 | 4,219 | -.0004594 | 7,240 | 2,429 |
| Idaho | .0029149 | 49,147 | 4,455 | -.0004890 | 7,637 | 2,569 |
| Illinois | .0016308 | 347,972 | 31,499 | -.0002734 | 54,032 | 18,142 |
| Indiana | .0019482 | 198,315 | 17,960 | -.0003267 | 30,801 | 10,348 |
| Iowa | .0023774 | 128,865 | 11,691 | -.0003990 | 20,034 | 6,745 |
| Kansas | .0025198 | 111,399 | 10,105 | -.0004229 | 17,317 | 5,829 |
| Kentucky | .0022874 | 153,816 | 13,955 | -.0003839 | 23,913 | 8,052 |
| Louisiana | .0020332 | 155,662 | 14,100 | -.0003410 | 24,179 | 8,125 |
| Maine | .0027165 | 56,502 | 5,118 | -.0004555 | 8,776 | 2,949 |
| Maryland | .0019866 | 157,017 | 14,208 | -.0003330 | 24,376 | 8,180 |
| Massachusetts | .0013677 | 150,778 | 13,640 | -.0002292 | 23,404 | 7,851 |
| Michigan | .0013439 | 229,997 | 20,830 | -.0002254 | 35,723 | 12,002 |
| Minnesota | .0020505 | 157,062 | 14,253 | -.0003442 | 24,421 | 8,225 |

Table C-20. a, b, and c Parameters for Calculating Approximate Standard Errors for Expenditures—Cont.

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

| State | Sportsmen or Fishermen | | | Hunters | | |
|----------------|------------------------|---------|--------|-----------|--------|--------|
| | a | b | c | a | b | c |
| Mississippi | .0022874 | 102,905 | 9,324 | -.0003837 | 15,987 | 5,375 |
| Missouri | .0019675 | 183,229 | 16,599 | -.0003300 | 28,463 | 9,566 |
| Montana | .0027527 | 39,671 | 3,600 | -.0004621 | 6,168 | 2,077 |
| Nebraska | .0027852 | 80,961 | 7,344 | -.0004674 | 12,585 | 4,237 |
| Nevada | .0027224 | 43,159 | 3,911 | -.0004567 | 6,706 | 2,255 |
| New Hampshire | .0024433 | 42,652 | 3,859 | -.0004094 | 6,620 | 2,221 |
| New Jersey | .0012509 | 175,735 | 15,911 | -.0002097 | 27,290 | 9,165 |
| New Mexico | .0028295 | 66,481 | 6,022 | -.0004745 | 10,327 | 3,470 |
| New York | .0012447 | 415,811 | 37,631 | -.0002086 | 64,557 | 21,670 |
| North Carolina | .0020283 | 222,818 | 20,230 | -.0003406 | 34,654 | 11,680 |
| North Dakota | .0030418 | 35,804 | 3,249 | -.0005106 | 5,567 | 1,875 |
| Ohio | .0015396 | 310,552 | 28,108 | -.0002581 | 48,218 | 16,187 |
| Oklahoma | .0025640 | 146,303 | 13,248 | -.0004299 | 22,722 | 7,633 |
| Oregon | .0026727 | 13,625 | 12,345 | -.0004481 | 21,172 | 7,112 |
| Pennsylvania | .0012787 | 291,593 | 26,392 | -.0002143 | 45,274 | 15,198 |
| Rhode Island | .0027530 | 49,511 | 4,479 | -.0004613 | 7,685 | 2,578 |
| South Carolina | .0023696 | 134,707 | 12,201 | -.0003974 | 20,924 | 7,031 |
| South Dakota | .0024848 | 31,067 | 2,823 | -.0004174 | 4,834 | 1,631 |
| Tennessee | .0021463 | 187,106 | 16,960 | -.0003601 | 29,074 | 9,778 |
| Texas | .0012472 | 329,304 | 29,846 | -.0002092 | 51,167 | 17,207 |
| Utah | .0026525 | 66,496 | 6,037 | -.0004454 | 10,342 | 3,485 |
| Vermont | .0028134 | 27,312 | 2,471 | -.0004714 | 4,239 | 1,422 |
| Virginia | .0021463 | 211,640 | 19,261 | -.0003609 | 32,958 | 11,141 |
| Washington | .0024760 | 196,847 | 17,853 | -.0004155 | 30,597 | 10,298 |
| West Virginia | .0024427 | 89,675 | 8,119 | -.0004095 | 13,924 | 4,675 |
| Wisconsin | .0018536 | 163,814 | 14,879 | -.0003113 | 25,483 | 8,593 |
| Wyoming | .0029950 | 26,444 | 2,397 | -.0005024 | 4,109 | 1,382 |

Table C-21. a, b, and c Parameters for Calculating Approximate Standard Errors for Days or Trips

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

| State | Sportsmen or Fishermen | | | Hunters | | |
|----------------------|------------------------|---------|--------|------------|--------|--------|
| | a | b | c | a | b | c |
| UNITED STATES | .00002204 | 95,029 | 6,871 | -.00004198 | 16,317 | 5,758 |
| Alabama | .0013273 | 96,321 | 6,997 | -.0025325 | 16,568 | 5,869 |
| Alaska | .0017617 | 11,694 | 855 | -.0033690 | 2,016 | 718 |
| Arizona | .0014083 | 73,666 | 5,335 | -.0026840 | 12,656 | 4,472 |
| Arkansas | .0014389 | 61,769 | 4,484 | -.0027448 | 10,622 | 3,761 |
| California | .0007229 | 331,769 | 22,936 | -.0013156 | 54,442 | 19,223 |
| Colorado | .0014301 | 78,574 | 5,715 | -.0027298 | 13,521 | 4,795 |
| Connecticut | .0014491 | 87,116 | 6,299 | -.0027600 | 14,958 | 5,279 |
| Delaware | .0017141 | 19,154 | 1,385 | -.0032650 | 3,289 | 1,161 |
| District of Columbia | .0019855 | 24,774 | 1,791 | -.0037819 | 4,254 | 1,501 |
| Florida | .0009157 | 182,397 | 13,216 | -.0017455 | 31,343 | 11,080 |
| Georgia | .0011929 | 120,875 | 8,774 | -.0022755 | 20,786 | 7,359 |
| Hawaii | .0016095 | 27,658 | 2,000 | -.0030655 | 4,749 | 1,676 |
| Idaho | .0017116 | 29,147 | 2,117 | -.0032654 | 5,013 | 1,775 |
| Illinois | .0009575 | 206,351 | 14,941 | -.0018247 | 35,450 | 12,525 |
| Indiana | .0011439 | 117,607 | 8,524 | -.0021808 | 20,212 | 7,147 |
| Iowa | .0013962 | 76,430 | 5,561 | -.0026654 | 13,154 | 4,666 |
| Kansas | .0014797 | 66,070 | 4,805 | -.0028244 | 11,369 | 4,031 |
| Kentucky | .0013433 | 91,228 | 6,638 | -.0025646 | 15,702 | 5,570 |
| Louisiana | .0011939 | 92,313 | 6,693 | -.0022762 | 15,867 | 5,612 |
| Maine | .0015950 | 33,507 | 2,429 | -.0030410 | 5,759 | 2,037 |
| Maryland | .0011664 | 93,110 | 6,736 | -.0022221 | 15,991 | 5,645 |
| Massachusetts | .0008030 | 89,409 | 6,465 | -.0015294 | 15,352 | 5,417 |
| Michigan | .0007891 | 136,395 | 9,887 | -.0015044 | 23,442 | 8,290 |
| Minnesota | .0012042 | 93,155 | 6,781 | -.0022994 | 16,036 | 5,690 |

Table C-21. *a*, *b*, and *c* Parameters for Calculating Approximate Standard Errors for Days or Trips—Cont.

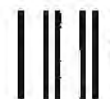
(U.S. population 16 years old and older)

| State | Sportsmen or Fishermen | | | Hunters | | |
|----------------|------------------------|----------|----------|-----------|----------|----------|
| | <i>a</i> | <i>b</i> | <i>c</i> | <i>a</i> | <i>b</i> | <i>c</i> |
| Mississippi | .0013432 | 61,028 | 4,428 | -.0025617 | 10,493 | 3,714 |
| Missouri | .0011553 | 108,662 | 7,880 | -.0022029 | 18,679 | 6,608 |
| Montana | .0016165 | 23,529 | 1,712 | -.0030865 | 4,050 | 1,437 |
| Nebraska | .0016356 | 48,017 | 3,492 | -.0031220 | 8,263 | 2,930 |
| Nevada | .0015986 | 25,596 | 1,858 | -.0030496 | 4,402 | 1,558 |
| New Hampshire | .0014345 | 25,292 | 1,829 | -.0027324 | 4,343 | 1,532 |
| New Jersey | .0007345 | 104,214 | 7,549 | -.0013999 | 17,907 | 6,329 |
| New Mexico | .0016614 | 39,426 | 2,859 | -.0031678 | 6,777 | 2,397 |
| New York | .0007308 | 246,576 | 17,845 | -.0013925 | 42,353 | 14,957 |
| North Carolina | .0011912 | 132,160 | 9,631 | -.0022755 | 22,760 | 8,084 |
| North Dakota | .0017862 | 21,235 | 1,546 | -.0034104 | 3,655 | 1,297 |
| Ohio | .0009040 | 184,159 | 13,331 | -.0017225 | 31,635 | 11,175 |
| Oklahoma | .0015055 | 86,761 | 6,287 | -.0028698 | 14,910 | 5,271 |
| Oregon | .0015693 | 80,844 | 5,858 | -.0029915 | 13,893 | 4,912 |
| Pennsylvania | .0007508 | 172,916 | 12,516 | -.0014306 | 29,703 | 10,491 |
| Rhode Island | .0016164 | 29,359 | 2,123 | -.0030785 | 5,041 | 1,779 |
| South Carolina | .0013914 | 79,886 | 5,792 | -.0026528 | 13,731 | 4,856 |
| South Dakota | .0014593 | 18,428 | 1,345 | -.0027899 | 3,176 | 1,130 |
| Tennessee | .0012603 | 110,966 | 8,058 | -.0024044 | 19,084 | 6,758 |
| Texas | .0007323 | 195,297 | 14,178 | -.0013970 | 33,585 | 11,892 |
| Utah | .0015578 | 39,441 | 2,874 | -.0029757 | 6,792 | 2,412 |
| Vermont | .0016519 | 16,196 | 1,171 | -.0031463 | 2,781 | 981 |
| Virginia | .0012607 | 125,550 | 9,196 | -.0024129 | 21,663 | 7,727 |
| Washington | .0014540 | 116,747 | 9,488 | -.0027751 | 20,088 | 7,121 |
| West Virginia | .0014343 | 53,178 | 3,851 | -.0027333 | 9,136 | 3,228 |
| Wisconsin | .0010886 | 97,166 | 7,087 | -.0020803 | 16,739 | 5,949 |
| Wyoming | .0017587 | 15,683 | 1,139 | -.0033549 | 2,697 | 955 |

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