

FOREWORD

Fishing and hunting are among the Nation's most popular outdoor sports. The second National Survey of Fishing and Hunting in the United States, covering the calendar year 1960, shows that these traditional American activities are even more significant now to our national economy and way of life than they were in 1955, the year covered by the first survey. The 1960 survey reveals millions of participants who spend billions of dollars, hundreds of millions of days and travel billions of miles to enjoy sport fishing and hunting. Millions of American families take advantage of these outdoor recreational sports. Fishing and hunting are enjoved by every member of the family—female as well as male; the very young and elderly as well as those in the prime of life.

Our people have turned in ever-increasing numbers to the healthful out-of-doors. As industrial technology, automation, and other advances have increased wages and shortened the workweek, the time and money available for recreation have contributed to this change. With this additional free

time, a large proportion of our citizens go outdoors and test their sporting skills against the denizens of the deep, the streams and the woods.

It should be noted that the cost of this report and the survey on which it is based was borne entirely from funds derived from excise taxes on sporting arms and ammunition and on certain types of fishing tackle. These funds, except for administrative costs, are allocated to the States for fish and wildlife restoration work. The funds expended for this survey would have been so allocated had they not been used for the survey, made at the request of the States. Consequently, the expenditure of funds on this survey has had no effect whatever on the Federal budget.

The knowledge gained from the 1960 survey is invaluable in administering and planning for the fish and wildlife resources of our Nation. Such knowledge is essential to State and Federal agencies which must manage fish and wildlife populations so as to meet the requirements of our ever-growing human population for sport fishing and hunting.

Director,

Bureau of Sport Fisheries and Wildlife United States Department of the Interior

Washington, D.C. September 1001

SURVEY HIGHLIGHTS

Fifty million of the 130 million people in this Nation over 12 years old went fishing, hunting, or both, in 1960. This is nearly 2 out of every 5 persons in this age group. Approximately 45 million fished during the year, including many who also hunted. The total who hunted is roughly 20 million, the majority of whom are fishermen as well.

A detailed study of participation in these sports. including types of fishing and hunting, expenditures, mileage traveled and the like, was made of the more active sport fishermen and hunters, who for the most part, were licensed or, if unlicensed, either took part in these sports on several occasions or reported at least a modest expenditure for these activities. This study—the National Survev of Fishing and Hunting-revealed an estimated 30 million sport fishermen or hunters in 1960, some 23 percent of the population 12 years old and over. These more substantial participants reported around 650 million recreation days of fishing and hunting and an expenditure of close to 4 billion dollars on these pastimes. As compared with a similar survey conducted in 1955, the number of these sportsmen had increased

by over 5 million and their expenditures by 1 billion dollars.

The remainder of this report is confined to the results of the detailed study with appropriate comparisons with the 1955 results. A further explanation of the difference between the total number of participants and the substantial participants, with whom this detailed report is concerned. is given in the appendix to this report (see page 70). The two estimates were obtained from different surveys conducted by the U.S. Bureau of the Census. Part of the difference can be attributed to sampling variability and different survey procedures. In the main, however, the difference represents the exclusion from the National Survey of Fishing and Hunting of incidental participants: those who were unlicensed and who fished or hunted on only one or two occasions and reported virtually no expenditure. Available data indicate that the sport fishermen and hunters included in the National Survey account for approximately 95 percent of all recreation-days of effort and 99 percent of all expenditures for these activities.

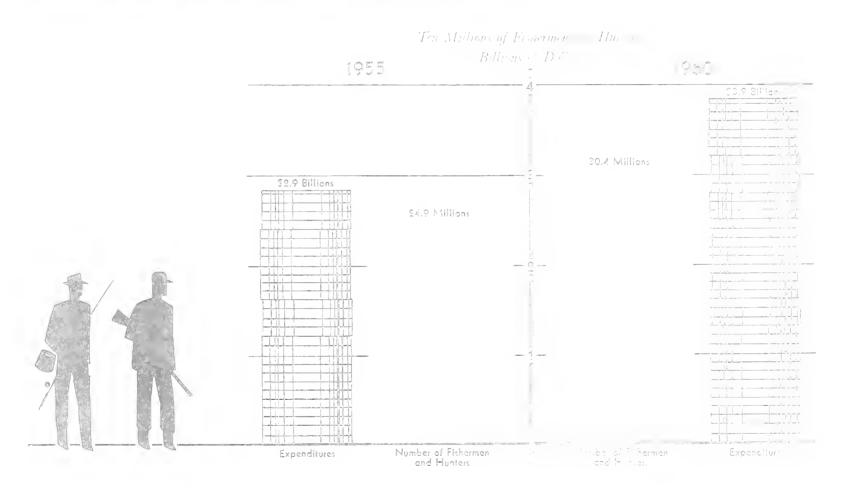
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Sport Fishermen and Hunters and Their Expenditures



UP

National statistics on sport fishing and hunting show the same trends as other national data. UP! Personal expenditures on all recreation rose by almost 60 percent in the fifties. Thirty million people spent almost \$4 billion for the fun of fishing and hunting, during 1960, as compared with 25 million who spent \$3 billion in 1955.

As a Nation, we play a little more each year. Our work week has grown shorter and shorter during the first half of this century. Perhaps you remember when we worked 60 or more hours a week at the turn of the century. If you are too young to remember, your father, or at least your grandfather. remembers those long-hour workweeks. Now all of us have more time to ourselves—it is no longer rare for us to find a person going on a vacation for a month, especially a person with seniority on the job. Another and newer development in our Nation is that as many as 25 million Americans are "making a living" from retirement income or other sources.

Besides having a greater amount of time for play, we also have an increasing amount of money to spend on pastime activities. Family expenditures account for about two-thirds of all goods and services purchased during a year. As a Nation of consumers we have achieved a level of living above that of subsistence. The family budget calls for less and less spending on "hard" goods. Big items like houses and automobiles, demanded after World War II, have been bought and demand for those items has declined from postwar peaks. Not only have our families shown a trend to shift their buving patterns, but they have more discretionary income—the amount of money left over after necessities have been bought and over which the family can exercise option on other purchases.

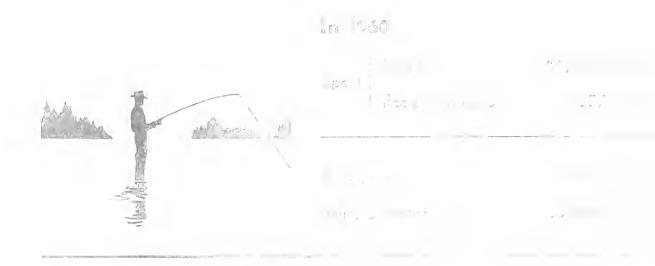
Discretionary income accounts for about onethird of our total personal income and will probably increase more in the future. About three-fifths of our families have some discretionary income and many family treasuries are bulging. Personal buying of necessities like food, clothing, and shelter, has risen moderately during the past few years. This means that discretionary incomes have increased more rapidly and that the families of our Nation are choosing the more esthetic values of life with each advance they make up the rungs of the income ladder. They are interested in these real values and will pay for them. Families are now thinking twice before buying goods and services which they neither need nor desire.



Money spent on vacations has doubled in the postwar period. During the same time, money spent on alcoholic beverages, for example, has increased only by 7 percent. These dollar ballots have not gone unnoticed by the businessman who is devoting a greater amount of effort to satisfying family needs in the recreation field. The manufacturers of sport fishing tackle and of sporting arms and ammunition have taken advantage of new materials and automation to make their wares less expensive and more popular than ever. The new equipment is light enough for children and easy enough for women and the elderly to handle.

Fishing and hunting are popular sport pastimes with the family -- Mom, Dad. Sis, and Jr., all take part. Along with the "exploding" growth of our population, sport fishing and hunting are significant ingredients in the growth of expenditures on recreational activities in our country.

	In 1955	Mean	Median	
	Spent Money	\$1,914,292,000	\$91.98	\$29.75
	Recreation-days	397,447,000	19.1	9.5
	Trips taken	341,333,000	16.4	8.0
	Miles by automobile	17,910,434,000	860.5	319.0
			A 10	200
	Spent Money Recreation-days	\$936,687,000	\$79.49	\$27.30
	Recreation-days	169,423,000	14.4	8.5
	Trips taken	154,370,000	13.1	5.5
WIND WIND WIND WIND WIND WAR IN THE PARTY OF	Miles by automobile	6,072,296,000	515.3	206.0





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BASIS AND BACKGROUND

Our Federal and State governments, as well as the various conservation organizations, have become increasingly concerned with the dwindling natural resources of our country. The factors which have made us a rich and advanced industrial Nation have also threatened our invaluable fish and wildlife resources, even to the point of extinction in many areas. Urbanization and industrialization, for instance, have led to water-pollution, which has killed fish and wildlife and resulted in great losses of their natural habitat Intensive planning for and management of our fish and wildlife resources will be required to assure opportunities for fishing and hunting for the more than three-fold increase in the number of fishermen and hunters expected by the close of this century. Conservation agencies have struggled to maintain and to improve these natural resources. Maintenance and improvement of these resources cost money, and the spending of money for these purposes requires justification. One measure of the importance of fish and wildlife resources is personal expenditures on sport fishing and hunting and the significance of their contribution to our national economy.

As a Nation we have spent all too little to protect our valuable fish and wildlife resources. One of the primary sources of financing such protection comes from taxes and fees paid by sport fishermen and hunters for their part in these sport activities. These include excise taxes on sport fishing tackle and sporting arms and ammunition and state license fees. In fiscal year 1960, excise taxes amounted to \$21 million and state license fees amounted to \$115 million. Excise taxes provide the source of funds for the Federal Aid in Fish and Wildlife Restoration programs. Under these programs, the funds are made available to the State fish and game departments for fish and wildlife management purposes. This survey is one of the coordinated programs between our Federal and State governments and is financed directly from these Federal Aid funds.

Conservation agencies need comprehensive information provided by this survey for carrying out their individual restoration, management, and other fish and wildlife programs. The International Association of Game, Fish and Conservation Commissioners, which includes the fish and game commissioners and directors of the 50 States and

the Canadian Provinces, requested this survey as well as the similar survey in 1955. This Association recommended that the U.S. Fish and Wildlife Service carry out this survey similar to the one in 1955. After approval by the Bureau of the Budget, the Bureau of the Census, the principal data-collection agency of the Federal Government, conducted this second National survey of fishermen and hunters

WHAT THE SURVEY MEASURED

The National Survey of Fishing and Hunting measures the amount of money and time spent and the number of trips made by American fishermen and hunters to participate in these sports. It shows the number of these sportsmen by households and by their chief social and economic characteristics—geographic area, population density, age, sex, occupation, and income. In addition, it shows: (1) the number of fresh-water fishermen fishing in man-made ponds and reservoirs, in natural lakes and ponds, and in rivers and streams; (2) the number of salt-water fishermen fishing in the surf, in bays and sounds, in tidal rivers and streams, and in the adjoining sea; (3) the num-

ber of hunters who hunt for big game, small game, waterfowl, and mourning doves: 1 the number of ducks bagged, and (5) expenditures on boats and motors and boat launching, automobile expenditures, expenditures on other types of transportation, other trip expenditures, and daily entrance fees.

Exact comparability was not maintained with 1955 data in all detail due to the addition of a great deal of new information, the desirability of showing certain expenditures separately, and other changes since 1955. The most obvious change since 1955 is the addition of two new States. Alaska and Hawaii. In some cases, the classifications used in 1955 were changed for statistical comparability with other data. This is no impairment. Details of these differences are shown, or described, at the back of this booklet, in Appendix C. The net result of these and other changes is that (1) expenditures on food show a greater increase than would have occurred if the 1955 procedures had been used, and (2) expenditures for "Bait, Guide Fees and Other Trip Expenses" are lower than they would have been under the 1955 procedures.

In 1960, \$4 Billion spent on Fishing and Hunting

Auxiliary equipment 32^{c}



Privilege fees
and other expenses
24%



Fishing and hunting equipment 17%



Transportation expenses
14%



Food and lodging 10%



Licenses
3%

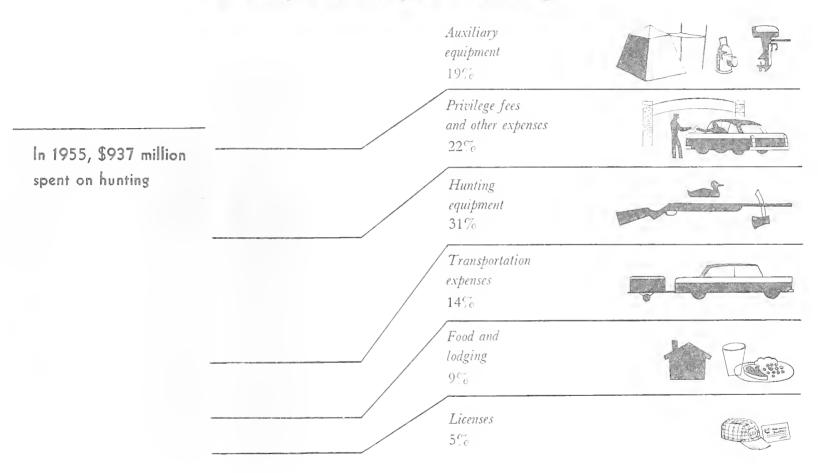




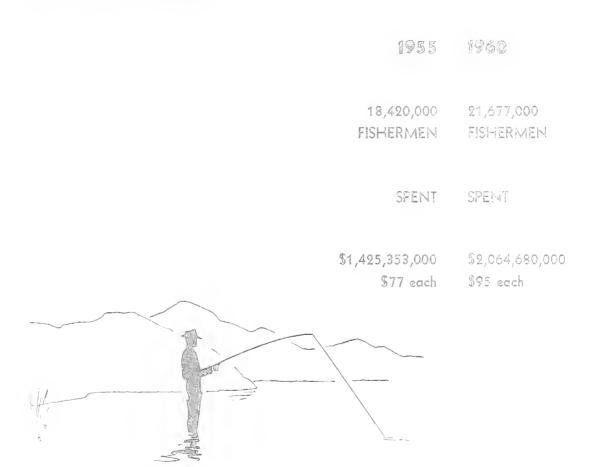
In 1955, \$2,851 million spent on fishing and hunting

In 1960, \$3 Billion spent on Fishing 3717 Pri lege ter Fishing. In 1955, \$1,914 million 117 spent on fishing Transportation expenses Food and 1(1); Licenses

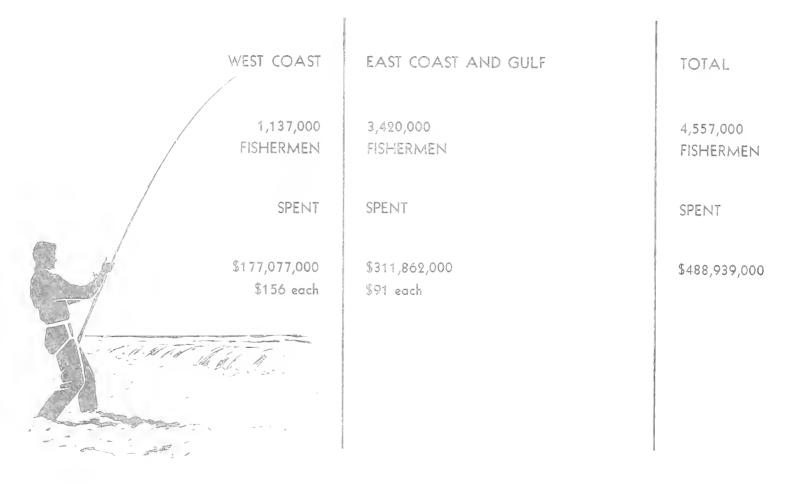
In 1960, \$1 Billion spent on Hunting



Fresh-Water Fishing



Salt-Water Fishing, 1955



Salt-Water Fishing, 1960

ATLANTIC COAST	GULF COAST	PACIFIC COAST	TOTAL
3,383,000 FISHERMEN	1,437,000 FISHERMEN	1,472,000 FISHERMEN	6,292,000 FISHERMEN
SPENT	SPENT	SPENT	SPENT
\$346,373,000 \$102 each	\$144,857,000 \$101 each	\$134,961,000 \$92 each	\$626,191,000

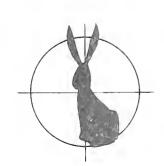
Waterfowl Hunting





Small Game Hunting

1955	1960
9,822,000	12,105,000
SMALL GAME HUNTERS	SMALL GAME HUNTERS
SPENT	SPENT
\$494,033,000	\$726,118,000
\$50 each	\$60 each



Big Game Hunting

1955 1960

4,414,000 6,277,000

BIG GAME HUNTERS' BIG GAME HUNTERS

SPENT SPENT

\$323,909,000 \$345,694,000

\$73 each \$55 each

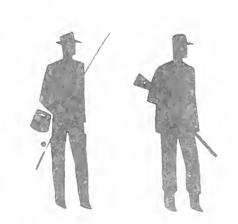


Fishing and Hunting Households

1955 1960

17 MILLION

20 MILLION



Households that had one or more Fishermen or Hunters

Percentage of Households with Fishermen or Hunters

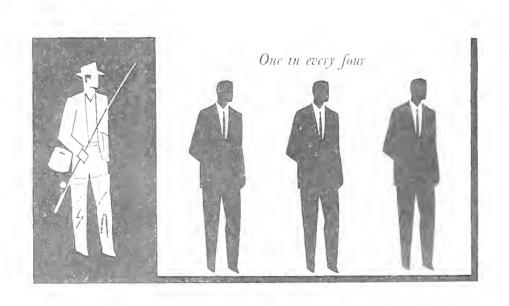
		19	55	1960		
TOTAL		35	5%	36%		
	FISHING		15%	15%		
		HUNTING	6%	7%	+	
	BOTH		14%	14%		+

Alaska and Hawaii not included in 1955

In 1955 In 1960

12,938,000 MEN FISHED

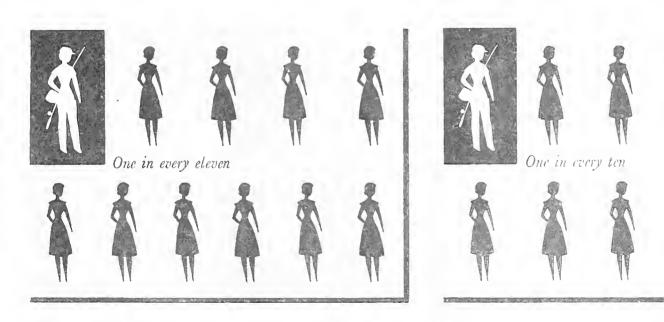
14,750,000 MEN FISHED



In 1955 In 1960

4,689,000 WOMEN FISHED

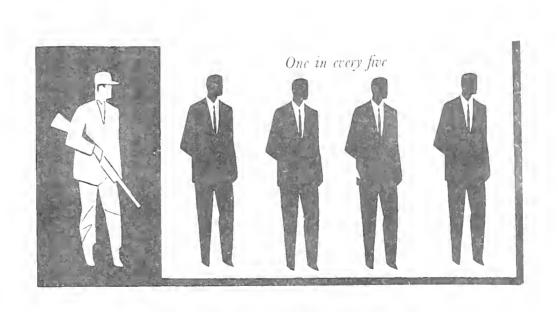
5,683,000 WOMEN FISHED



In 1955 In 1960

9,675,000 MEN HUNTED

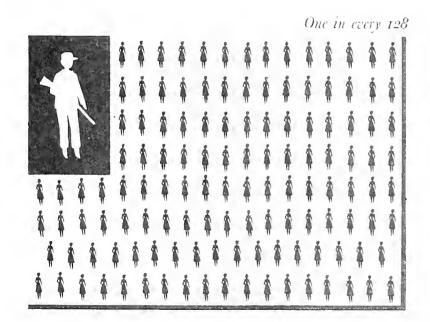
11,169,000 MEN HUNTED

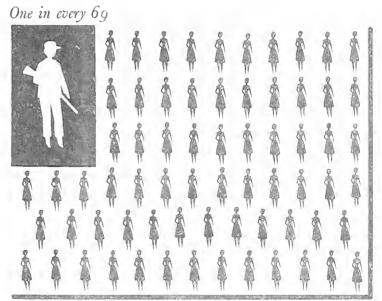


In 1955 In 1960

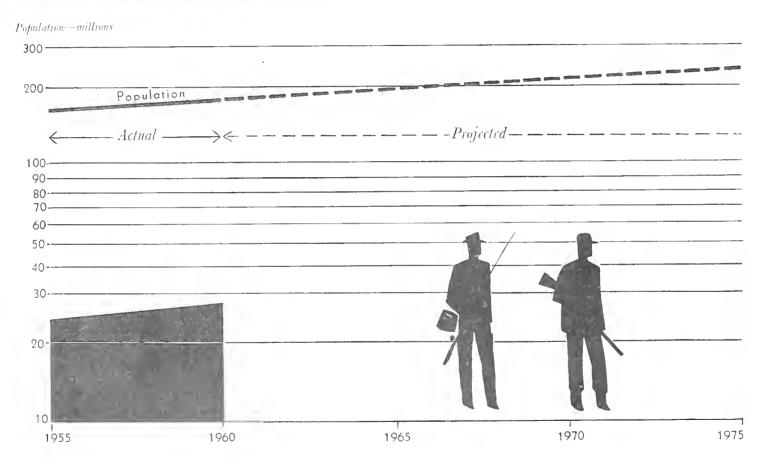
418,000 WOMEN HUNTED

860,000 WOMEN HUNTED

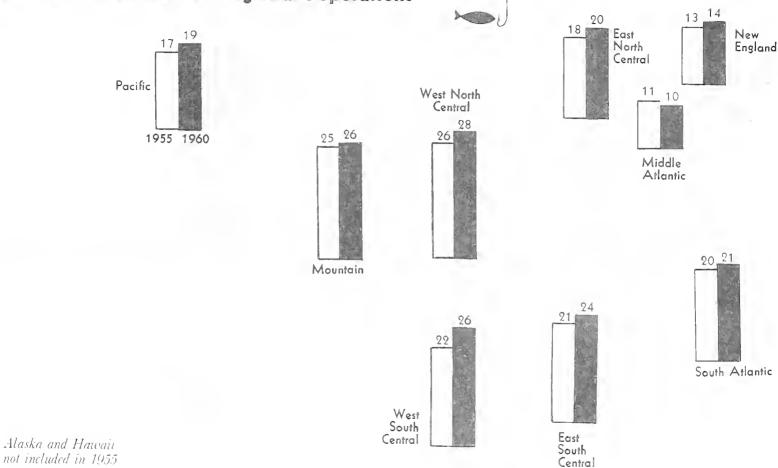




Trend in Growth of Population and in the Number of Fishermen and Hunters, 1955–1975

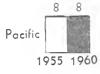


Percent of Fishermen in Regional Populations

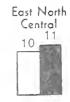


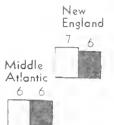
Percent of Hunters in Regional Populations

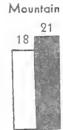






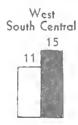


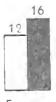










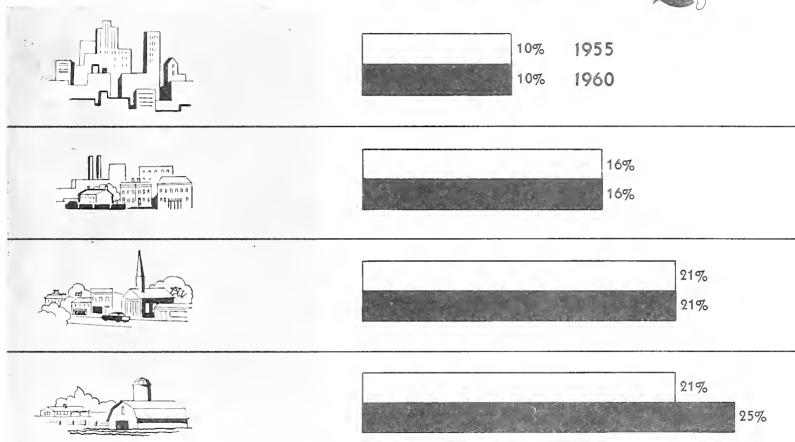


East South Centrol

Alaska and Hawaii not included in 1955

Percent of Sport Fishermen in Cities, Towns, and Rural Areas





Percent of Hunters in Cities, Towns, and Rural Areas













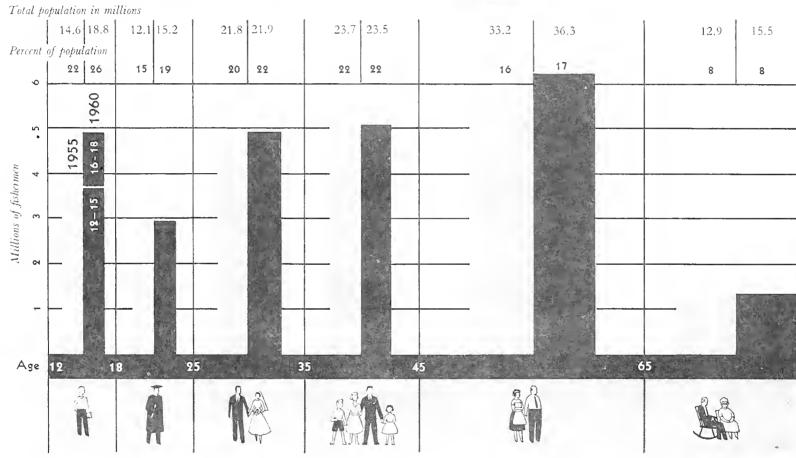




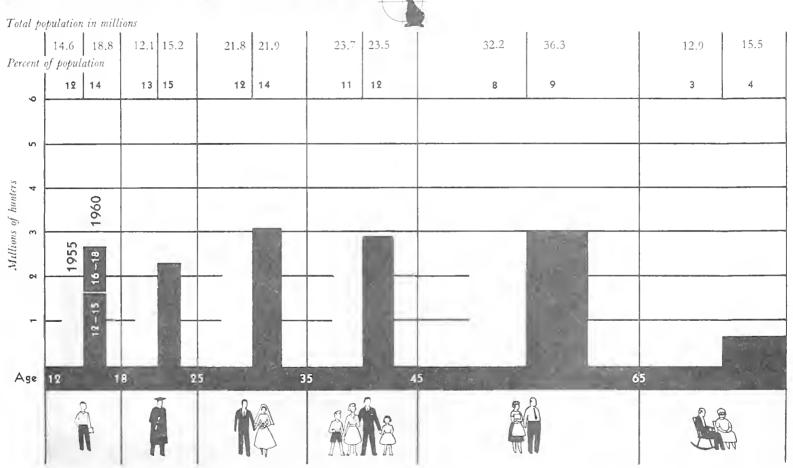


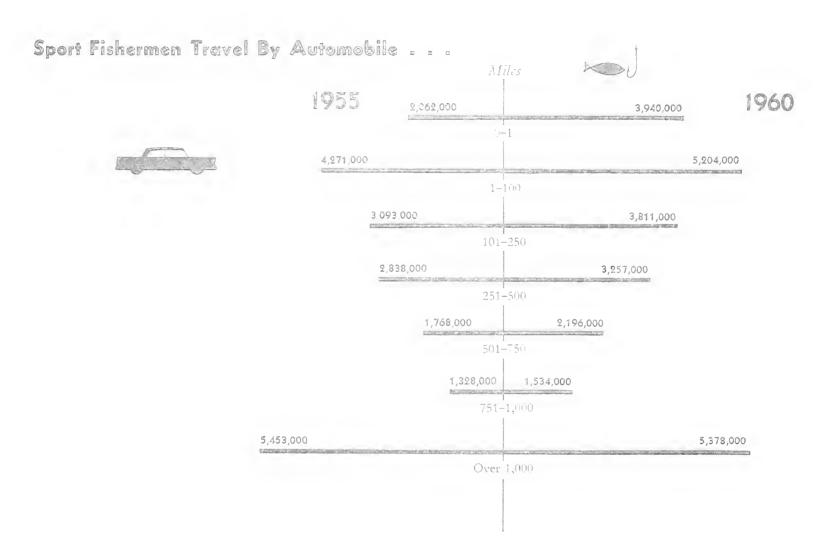
Sport Fishermen By Age Groups, 1955 and 1960



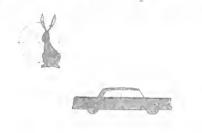


Hunters By Age Groups, 1955 and 1960

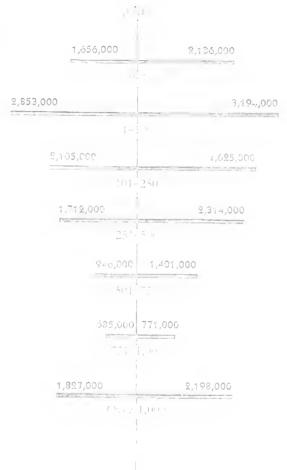




Hunter Travel By Automobile . . .

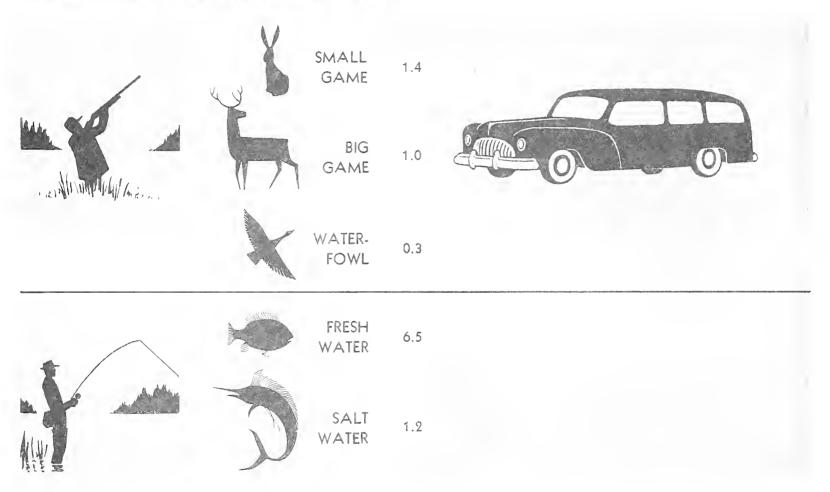




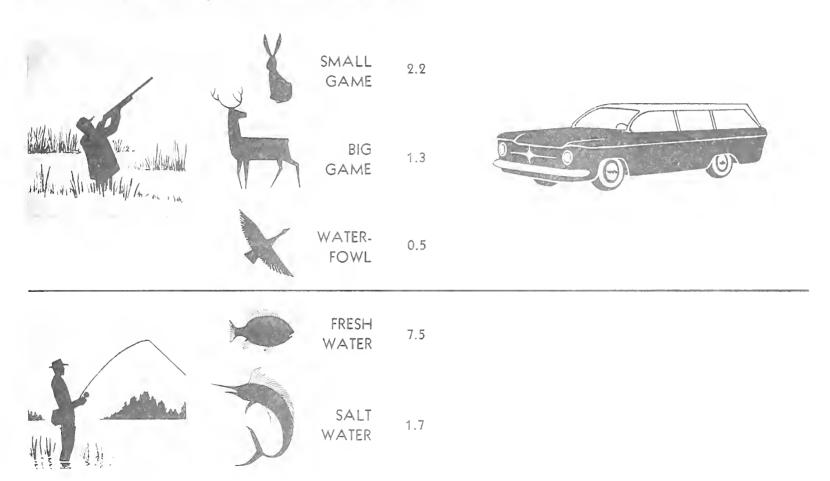




10.4 Billion Miles By Automobile in 1955



13.2 Billion Miles By Automobile in 1960



Fishing and Hunting Licenses, 1955



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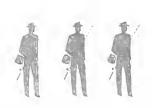
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13,737,000

7,076,000

Fishermen

One in three



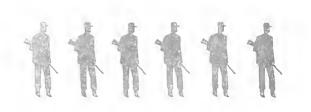


Hunters

9,951,000

1,833,000

One in six



Fishing and Hunting Licenses, 1960



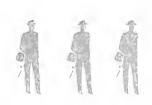
LICENSED

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15,339,000

9,984,000

One in three



Fishermen

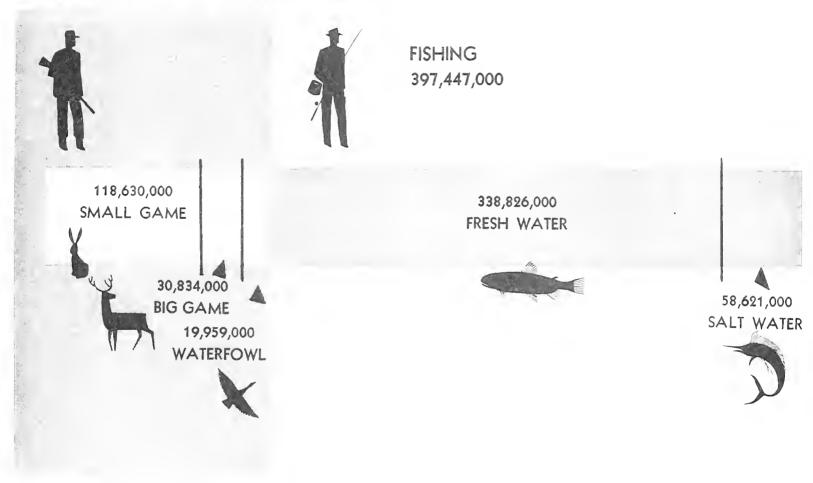
11,878,000

2,761,000

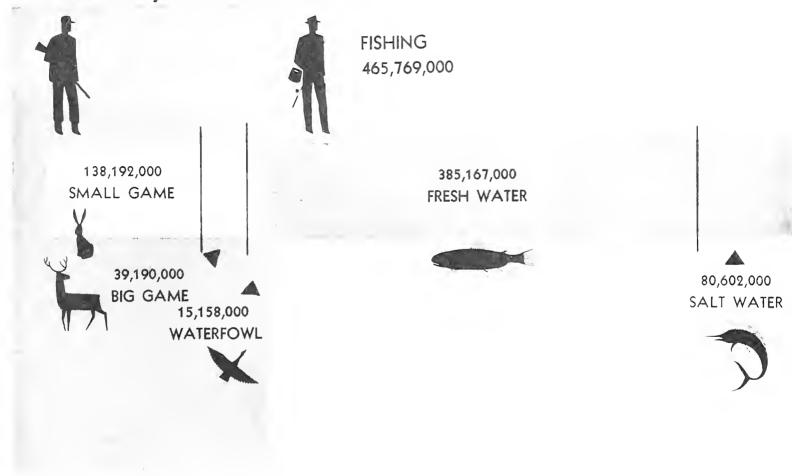


Hunters

567 Million Days of Recreation in 1955

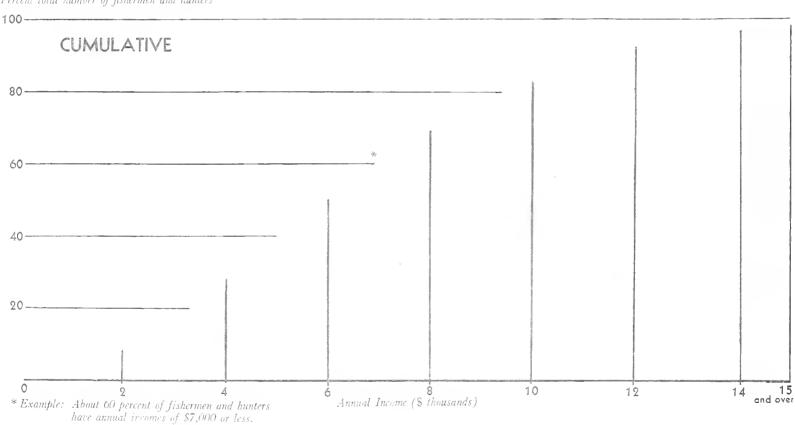


658 Million Days of Recreation in 1960

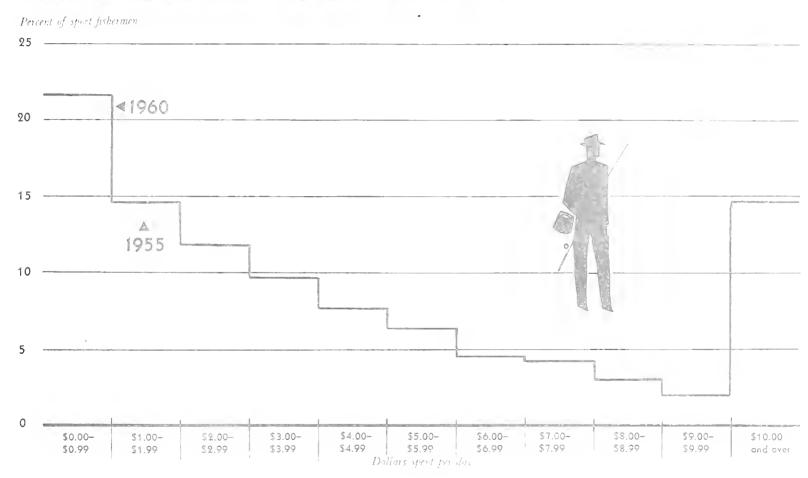


Sport Fishermen and Hunters By Income, United States 1960

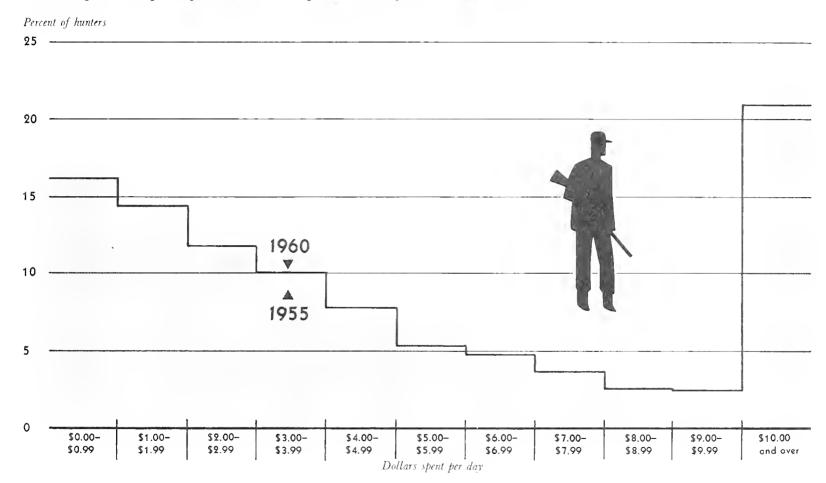
Percent total number of fishermen and hunters



Average Daily Expenditures By Sport Fishermen, 1955 and 1960



Average Daily Expenditures By Hunters, 1955 and 1960



APPENDIX A-STATISTICAL TABLES

Detailed data shown in the following tables do not always add to the totals. Differences are due to the independent rounding of each of the estimates.

Table 1.—Expenditures of Persons Who Fished and/or Hunted in 1960

The total number of sport fishermen and/or hunters (12 and aver) in the United States was 30,435,000.

Expenditure item	Number of spenders	fishermen	Total spent	Average spent per ushe, man and or hunter
	Thomas		- Thomsan's	
United States total	.29 411	Ob to	\$3, 852, 116	i 5126 57
Food and ledging				
Food	17, 131	5-, 5	286, 983	0.45
Lodging	3 545	11 6	89, 516	2. 14
Transportation:				
Automobile .	26 158	25, 9	529, 749	17, 41
Bus, rail, air, and water	250	(1, 9)	14, 759	
Auxiliary equipment:				1
Boats and boat motors.	2. 586	8. 5	881, 051	28, 95
General,	7, 986	2 4.2	331,164	10, 91
Fishing and hunting equipment	21, 243	40, 8	(113, 73)	21.81
Licenses, tags, and permits:				
Licenses, tags, and permits	20, 417	o [→] . 1	110, 844	3.64
Duck stamps	11,526	5. 0	4, 575	. 15
Privilege fees and other:				
Annual lease and privilege fees.	(11)	5.3	23, 435	
Daily entrance and privilege fees	3, 108	10. 2	49, 670	1.63
Bait, guide tees, and other trip ex-				
penses	17, 655	58.0	609, 685	20. 03
Other	9, 129	30, 0	256, 097	8, 41

Post-ruse, of lock stong A. Alarten, who has not find a water ow an Problem is a 25-d in the later is the less stage, and prominent.

Table 2.—Expenditures of Persons Who Fished in 1960

The total number of sport fishermen (12 and aver) in the United States was 25,323,000.

Exemple a specie		Power of a tsleip er	Local Control	No. of the second secon
			\$2, 21 -	
United States tota.	24 (15)		\$2. 21 -	31 0 20
Tool and lodging:				
Lond			- 4	1
Lodenig	3 -43	1.1	2 1	15
Li ansportation				
Antomobile.	21 378	~ 1 4		
Bus, rail, air and water				
Auxiliary equipment.				
Boats and hoat motor-	1.4600			
General		11.5		
Fishing equipment,	13.721	62.1	0.8, .56	13.14
Licenses, tags, and permits	11:	50, 9		3 18
Privilege fees and other		~		
Annual lease and privilege to s		2 +	1 4	5;
Daily entrance and purvious Bart, guide fees, and other our	Z. 18	1 1	51 - 15	;
expenses		68.71		.271
Boat launching ice's	1 7 7		15.25	
Other	3. 11	15 4	\$1,480	1.

Table 3.—Expenditures of Fresh-Water Fishermen in 1960

The total number of fresh-water fishermen (12 and over) in the United States was 21,677,000.

Expenditure item Number of spenders Spenders Fost water fishermen Total water fishermen Spenders Spenders					
United States total. 20,756 95.8 \$2,064,680 \$95. Food and lodging: 11,560 53.3 152,025 7. Lodging. 2,288 10.6 49,378 2. Transportation: 301,470 13. Automobile. 18,350 84.7 301,470 13. Bus, rail, air, and water 107 5 1,345 . Auxiliary equipment: 107 5 1,345 . General. 4,201 19.4 210,635 9. Fishing equipment. 13,380 61.7 234,380 10. Licenses, tags, and permits. 13,404 61.8 49,170 2. Privilege fees and other: 555 2.6 8,341 . Daily entrance and privilege fees 555 2.6 8,341 . Daily entrance and privilege fees 2,247 10.4 31,166 1. Bait, guide fees, and other trip expenses. 13,518 62.4 390,470 18. Boa	Expenditure item		of all fresh- water fisher-		spent per fisher-
Food. 11, 560 53. 3 152, 025 7. Lodging . 2, 288 10. 6 49, 378 2. Transportation: Automobile . 18, 350 84. 7 301, 470 13. Bus, rail, air, and water 107 . 5 1, 345 . Auxiliary equipment: Boats and boat motors . 1, 942 9. 0 584, 550 26. General . 4, 201 19. 4 216, 635 9. Fishing equipment . 13, 380 61. 7 234, 380 10. Licenses, tags, and permits . 13, 404 61. 8 49, 170 2. Privilege fees and other: Annual lease and privilege fees 555 2. 6 8, 341 . Privilege fees and other: Bait, guide fees, and other trip expenses . 13, 518 62. 4 390, 470 18. Boat launching fees . 784 3. 6 9, 723	United States total		95. 8		\$95. 25
Automobile	Food Lodging				7. 01 2. 28
Boats and boat motors 1,942 9.0 584,550 26. General 4,201 19.4 216,635 9. Fishing equipment 13,380 61.7 234,380 10. Licenses, tags, and permits 13,404 61.8 49,170 2. Privilege fees and other: 31,404 61.8 49,170 2. Annual lease and privilege fees 555 2.6 8,341 3.1,166 1. Bait, guide fees, and other trip expenses 13,518 62.4 390,470 18. Boat launching fees 784 3.6 9,723 3.6	Automobile				13. 91 . 06
Licenses, tags, and permits 13, 404 61.8 49, 170 2. Privilege fees and other: Annual lease and privilege fees 555 2.6 8, 341 . Daily entrance and privilege fees 2, 247 10.4 31, 166 1. Bait, guide fees, and other trip expenses 13, 518 62.4 390, 470 18. Boat launching fees 784 3.6 9, 723 .	Boats and boat motors	4, 201	19. 4	216, 635	26. 97 9. 90
Daily entrance and privilege fees. 2, 247 10. 4 31, 166 1. Bait, guide fees, and other trip expenses. 13, 518 62. 4 300, 470 18. Boat launching fees 784 3. 6 9, 723	Licenses, tags, and permits				10. 81 2. 27
penses	Annual lease and privilege fees Daily entrance and privilege fees				. 39 1. 44
Other 5, 227 14. 9 30, 033 1.	penses	784	3. 6	9, 723	18. 01 . 45
	Other	5, 227	14.9	36, 033	1.6

Table 4.—Expenditures of Salt-Water Fishermen in 1960

The total number of salt-water fishermen (12 and over) in the United States was 6,292,000.

Expenditure item	Number of spenders	Percent of all salt- water fisher- men	Total spent	Average spent per fisherman
United States total	Thousands 6, 007	95. 5	Thousands \$626, 191	\$99. 52
Food and lodging: Food	3, 657	58. 1	56, 705	9. 01
Lodging Transportation: Automobile	588 4, 971	9. 3 79. 0	12, 749 68, 293	2. 03 10. 85
Bus, rail, air, and water Auxiliary equipment:	122	1.9	5, 037	. 80
Boats and boat motors . General	521 863	8. 3 13. 7	175, 077 19, 701	27. 83 3. 13
Fishing equipment	2, 894	46. 0	73, 945	11.75
Licenses, tags, and permits Privilege fees and other:	1, 235	19. 6	3, 575	. 57
Annual lease and privilege fees.	58	. 9	4, 595	. 73
Daily entrance and privilege fees Bait, guide fees, and other trip ex-	352	5. 6	3, 379	. 54
penses	5, 426	86. 2	182, 127	28. 95
Boat launching fees Other	312 694	5.0	6, 555 14, 457	1. 04 2. 30

Table 5.—Expenditures of Atlantic Coast Salt-Water Fishermen in 1960

The total number of salt-water fishermen (12 and over) on the Atlantic coast was 3 383 000.

Expenditure item .	Namber of spenders	Percent of all Atlantic salt- water fisher- men	Foral quar	Verrage spend pro- tisher- trian
	I howards		Thomas	
United States total .	3, 1 77	43 0	5346, 175	8100 50
Food and lodging:				
Food .	1, 843	5.1.5	32, 301	7.55
Lodging	21	6. 4	0. 325	1.87
Transportation:			., -	
Automobile .	2, 514	- 74.4	36, 526	10, 80
Bus, rail, an, and water.		2. 3	1, 884	. 56
Auxiliary equipment:				
Boats and boat motors	269	8 0	113, 880	33, 66
General	4.10	13.0	8, 465	2, 50
Fishing equipment .	1.455	43 ()	35, 465	10.48
Licenses, tags, and permits	125	3 -	41"	. 12
Privilege tees and other:				
Annual lease and privilege fees	.3-1	1 0	2, 782	. 82
Daily cutrance and privilege fees Bait, guide fees, and other trip	248		2, 28"	. 68
expenses	2, 885	85 4	46, 577	2h 55
Boat lannching fees .	1(0)	3 (4, 592	1 35
Other	380	11.2	4, 873	1 44

Table 6.—Expenditures of Gulf Coast Salt-Water Fishermen in 1960

The total number of salt-water fishermen (12 and over) on the Gulf Coast was 1,437,000.

Expenditure dem	Number of spenders	Pencent dial, Colli Const salt- mater asher- men	I halve h	V (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	13.		۲,	
1 - rel States total	1 950		73 5144-85	×1 + -1
Food and Josephy:				
Poor.	837	38.0	12	8 11
Ladger	250	17 4	4, 247	2.96
Lianspertation:				
Automobale		800.1	18, 404	12 85
Bus, rail, air, and veiter	.311	2.1	5 17 +	2.14
Auxiliary reproprient				
Boats and boat motors	1.28	5 1	31, 037	21 ()
General	200	14 3	5 379	
Fishing equipment	14411	45.2	18, 5 79	13.11
Licenses, tags, and permits	1 1 1	58.1 ()		
Privilege fees and other.				
Ann rar reaso and parvilege feeting		1 .	5.00	
Daily entrance and privilege is se- Bait, guide fees, and other this	4	3 7	-1	= .
CXDenses	1.27		40	3- 73
Bust la melang fees	115	÷, 1	1 - 2	~ ,
Othe: .	145	. ı I	3 3	4.11

Table 7.—Expenditures of Pacific Coast Salt-Water Fishermen in 1960

The total number of salt-water fishermen (12 and over) on the Pacific coast was 1.473,000.

Expenditure item	Number of spenders	Percent of all Pacific coast salt- water fisher- men	Total spent	Aver- age spent per fisher- man
United States total	Thousands 1, 442	97. 9	Thousands \$134, 961	\$91.62
Food and lodging: Food	977 120	66. 3 8. 1	12, 327 2, 175	8. 37 1. 48
Lodging Transportation: Automobile	1, 300	88. 3	13, 303	9. 03
Bus, rail, air, and water Auxiliary equipment: Boats and boat motors	125 218	8. 5 14. 8	30, 160 5, 956	20. 48
General Fishing equipment Licenses, tags, and permits	792 680	53. 8	19, 602 2, 259	13. 31 1. 53
Privilege fees and other: Annual lease and privilege fees Daily entrance and privilege fees	10 57	3. 9	14 329	. 01
Bait, guide fees, and other trip expenses. Boat launching fees	1, 287 97 171	87. 4 6. 6 11. 6	44, 282 870 3, 610	30.00 . 59 2.45

Table 8.—Expenditures of Persons Who Hunted in 1960

The total number of hunters (12 and over) in the United States was 14,637,000.

Expenditure item	Number of spenders	Percent of all hunters	Total spent	Average spent per hunter
United States total	Thousands 14, 294	97. 7	Thousands \$1, 161, 242	\$79.34
Food and lodging:				
Food	6, 461	44.1	78, 252	5. 35
Lodging	918	6.3	27, 391	1.87
Transportation:				
Automobile	12, 501	85. 4	159, 987	10.93
Bus, rail, air, and water	54	. 4	8, 379	. 57
Auxiliarv equipment:				
Boats and boat motors.	159	1.1	121, 423	8. 30
General	3, 875	26. 5	95, 631	6. 53
Hunting equipment	11, 450	78. 2	355, 464	24. 29
Licenses, tags, and permits:				
Licenses, tags, and permits	10, 606	72. 5	58, 098	3. 97
Duck stamps	1, 526	10.4	4, 575	. 31
Privilege fees and other:			40 900	-
Annual lease and privilege fees	387	2.6	10, 500	. 72
Daily entrance and privilege fees I1	191	1.3	7,067	. 48
Daily entrance and privilege fees				
11 2	382	2. 6	8, 058	. 55
Bait, guide fees, and other trip ex-	004		27 001	1 25
penses	986	6. 7	37, 091	2. 53
Dogs	2, 298	15. 7	158, 908	10. 80
Other	2, 044	14.0	30, 418	2. 08

¹ Daily fees for hunting on commercially operated preserves.

2 Daily fees for hunting on wild lands.

Table 9.—Expenditures of Big-Game Hunters in 1960

The total number of big-game hunters (12 and over) in the United States was 6,277,000.

Expenditure item	Number of spenders	Percent of all big- game hunters	Total spent	Nebuge spent per hunter	
United States total	1 he rawly 6, 150	១8, 1		\$55, DT	
Food and lodging: Food Lodging	3, 254 645	51. 8 10. 3	29, 403 15, 900	4 £8 2 53	
Transportation: Automobile Bus, rail, air, and water Auxiliary equipment	5, 811 12	112. U	54, 448 51	> 65 +11	
Boats and boat motors General. Hunting equipment	40 1, 714 3, 490	27. 3 55. 6	21, 560 50, 625 93, 260	3 43 8 17 14, 80	
Licenses, tags, and permits Privilege fees and other: Annual lease and privilege fees Daily entrance and privilege fees	4, 315	3.5	3, 173	4 74	
Daily entrance and privilege fees	45 161	2. 6	621 5, 214	. 10	
Bait, guide fees, and other trip expenses Dogs Other	465 115 610	7, 4 1, 8 9, 7	25, 682 8, 376 9, 507	4 100 1 33 1 51	

⁴ Daily fees for hunting on commercially operated preserves

Table 10.—Expenditures of Small-Game Hunters in 1960

The total number of small-game hunters (12 and over) in the United States was $\pm 2,105,000$.

Espenditure in the	Number of spence	Percent of all in the broken human	Table per	Average Test Test Test
United State and			1000	
Look, and lodging:				
Frod Lodeine	(1) 1 31)		4 * 4 * 4 * 4	
Fransportation				
Amon obale		5		
Bus, rail, an, and war a	31.1		7	
Auxiliary equipment.				_
Roats and boat motors General		_		**
Hunting equipment				
I idenses, tags, and by that			- , , ,	
Privilege less and other			, '	
Annual lease and privilege (e)		-	1.4.12	45
Daily entrance and provilege tees			1 (21	+1
Daily entrance and privilege fees			-	
11 -			- v	1.4
Bait, Jon's fees, and oncer trap-				
expenses	·			
Dogs			11- 402	1 1 1 1
Other	1.2 -			

Daily ties for hunting encomment of a period period

² Daily fees for hunting on wild lands.

Daily fees for hunting on wild i no.

Table 11.—Expenditures of Waterfowl Hunters in 1960

The total number of waterfawl hunters (12 and over) in the United States was 1,955,000.

Expenditure item	Number of spenders	Percent of all water- fowl hunters	Total spent	Average spent per hunter
United States total	Thousands 1, 900	97.2	Thousands \$80, 431	\$45. ~4
Food and lodging:				
Food	763	39. 0	5, 416	2. 77
_Lodging	27	, 1.4	1, 953	1.00
Transportation:		0.2.0	1.1. 5. 5	0.70
Automobile	1.777	90.9	18, 765 990	9, 60 , 51
Bus, rail, air, and water	18	. 9	970	. 51
Auxiliary equipment: Boats and boat motors	54	2. 8	4, 629	2. 37
General.	271	13. 9	6, 369	3. 26
Hunting equipment	859	43, 0	23, 573	12.06
Licenses, tags, and permits:				
Licenses, tags, and permits.	571	29. 2	2, 199	1.12
Duck stamps	1,526	78.1	4, 575	2. 34
Privilege fees and other:				
Annual lease and privilege fees	89	4. 6	1, 836	. 94
Daily entrance and privilege fees		0		
	48	2.5	1, 526	. 78
Daily entrance and privilege fees	98	5, 0	3, 070	1.57
Bait, guide fees, and other trip				
expenses	250	12. 8	4, 151	2. 12
Dogs	54	2. 8	5, 532	2. 83
Other	193	9. 9	4, 848	2.48

¹ Daily fees for hunting on commercially operated preserves.

Table 12.—Average Recreation-Day Expenditures by Sport Fishermen and Hunters in 1955

Recreation-day expenditures	Fisher	men	Hunters		
	Number	Percent	Number	Percent	
United States total	Thousands 20, 813	100. 0	Thousands 11, 784	100, 0	
\$6.00 \$0.01-\$0.49 \$0.50-\$0.99 \$1.00-\$1.49 \$1.50-\$1.99 \$2.20-\$2.49 \$2.50-\$2.99 \$3.00-\$3.99 \$3.00-\$4.99 \$5.00-\$5.99 \$6.00-\$6.99 \$7.00-\$7.99 \$8.00-\$9.99 \$10.00-\$14.99 \$15.00-\$24.99 \$15.00-\$24.99 \$15.00-\$9.99 \$10.00-\$14.99 \$25.00-\$9.99 \$25.00-\$9.99 \$25.00-\$9.99 \$25.00-\$9.99 \$25.00-\$9.99 \$25.00-\$9.99 \$10.000 and over	533 1, 806 1, 671 1, 515 1, 297 1, 444 1, 197 1, 913 1, 534 1, 276 1, 026 7899 012 556 1, 713 1, 126 678 1, 27	2.67 8.00 7.32 6.09 5.8 9.24 6.19 3.89 22.73 8.24 5.33	167 721 1, 037 917 823 755 580 1, 072 844 643 552 376 359 270 995 758 821	1. 4 6. 1 8. 8 7. 8 7. 6 4 4. 9 1 7. 3 3 3. 2 8. 4 6. 4 7. 8	

¹ These data, obtained in the 1955 survey of fishing and hunting, were not published in the 1955 report. They are included here for purposes of comparison with data obtained for the 1960 survey.

⁻ Daily fees for hunting on wild lands.

Table 13.—Average Recreation-Day Expenditures by Sport Fishermen and Hunters in 1960

		Fisherme	1		Hunters		
Recreation-day expenditures	Pers	sons	Recrea-	Per	Persons		
	Number	Percent	days	Number	Percent	days	
United States total	Thou- sands 25, 323	100. 0	I how- vands 465, 769	1 hou- sands 14, 637	100, 0	There- varels 192, 53	
\$0.60. \$0.61 \$0.49. \$0.50 \$0.99. \$1.00-\$1.49. \$1.50-\$1.99. \$2.00-\$2.49. \$2.50-\$2.99. \$3.00-\$3.99. \$4.00-\$4.99. \$5.00-\$6.99. \$7.00-\$7.99. \$8.00-\$9.99. \$10.00-\$14.99. \$15.00-\$19.99. \$10.00-\$19.99. \$10.00-\$19.99. \$10.00-\$19.99. \$10.00-\$19.99. \$10.00-\$19.99.	1, 830 1, 738 1, 913 2, 151 1, 485 1, 795 1, 190 2, 484 1, 576 1, 211 1, 053 501 1, 1650 1, 131 225	7. 2 6. 9 7. 6 8. 5 5. 9 7. 1 4. 7 9. 8 7. 5 6. 2 4. 8 4. 2 3. 0 6. 5 4. 5 5. 9 7. 5 6. 2 8. 5 6. 2 8. 5 8. 6 8. 6 8. 6 8. 6 8. 6 8. 6 8. 6 8. 6 8. 7 8. 7 8. 8 8. 8	10, 306 51, 063 47, 684 42, 158 35, 71 34, 671 25, 009 47, 715 30, 183 20, 148 19, 773 15, 955 10, 042 8, 591 22, 203 14, 968 9, 394 2, 191	490 730 1, 159 1, 212 912 1, 062 644 1, 468 1, 141 773 696 547 386 368 1, 133 967 847 847	3. 3 5. 0 8. 3 6. 2 7 . 3 4. 4 10. 0 7 . 8 5. 3 4. 8 5. 7 6. 6 5. 8 0, 6	1, 54, 19, 60, 23, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	

United States Regional Map

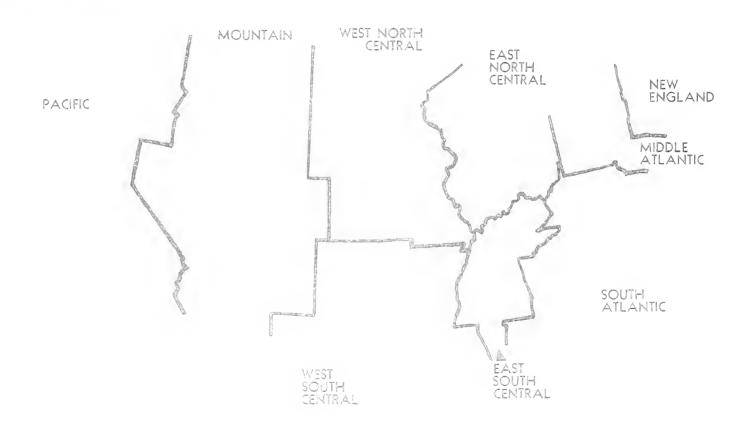


Table 14.—Number of Households With Persons 12 Years Old and Older Who Fished and Hunted in 1960

Grouping	Fotal r of house United	holds in	Total he with fis as Lord	hermen	House with fis and hi	hermer	Hause with its	hermen	I tal he with tis	nischelles bernien	Hair was f		lation, posterior	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Penent	Number	Percent
Inited States total	1 he words 53, 774	100, 0	15 marts 19, 621		Thomas /s		74 1.1 8.20		1700 0 1	211	7 months 2 3 5 m		1700 -	21
lensus geographic divisions:														
New England	3, 410	100 G	121	27	2015	5 1	5.10	1 1 0	E 15	21	119	5.5	41.	
Middle Atlantic	10, 878	100.0	2. 484	22 8	1	1	1 054	10 7	1.835	16.8	659	1, 1	1. 4	1
Last North Central	10, 852	100.0	3, 1100	56 8	1, 628	15 1	1, 023	15 0	3.251	5(1-11	~40	1.8	2.3.5	21
West North Central	4, 136	100.0	2, 065	39.0	0.20	22 2	\$177	10.0	1 721	11	3 3 7	8 1	1.357	
South Atlantic .	7,1114	1(H) ()	2, 807	311.7	1, 105	15 0	1 234	17.5	2, 331	43.1	4/48		1 5	2.2
East South Central	3, 722	1(00, 0	1 7411	40	842	22 0	561	15 1	1 403	3	3.17		1 1 1	
West South Central	4, 788	100.0	2, 253	47 2	987	20.6	871	18.2	1 853	38 8	4110	8 4	1.58	
Mountain .	2, 260	100.0	1, 1120	45. 1	566	25. 0	283	12.5	849	37 5	1 *()	~ ~	*50	
Pacific	6, 654	100, 0	2, 333	35 1	687	10, 3	1,346	20, 2	2, 033	341 ()	200	4.5	950	
opulation-density:														
Big cities	0, 500	1(4), ()	1 612	1 ', 2	366	2 0		11 0	1.45	15.5	155			**
Small cities and submbs	14, 772	100.0	4. 195	28, 4	1, 277	* 1,		16 2	3, 11 3	24 1	521			
Towns	0, 044	100, 0	1, 543	30, 2	1 526	1 "	1 403	15. 5	2 1 21	32.4	51.7		2 : 1	13
Rural areas	20, 564	1000	10, 273	511-11	4.632	22.5	3, 31111	16. 5	8 (31	3'1 1	2 241	1		

Table 15.—Number of Persons 12 Years Old and Older Who Fished and Hunted in 1960

Total num persons 1 over in U Grouping State Number	persons over in	12 and United			Persons who fished and hunted		Persons who fished only		Total persons who fished		Persons who hunted only		Total persons who hunted	
	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Numiber	Percent	Number	Percent	
United States total		100, 0	Thousands 30, 435	23. 2	Thousands 9, 525	7. 3	Thousands 15, 798		Thousands 25, 323	19. 3	Thousands 5, 112	3. 9	Thousands	11. 2
Census geographic divisions: New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mest South Central And Mountain Pacific	8, 349 26, 493 26, 833 10, 149 17, 798 9, 277 11, 837 5, 222 15, 268	100, 0 100, 0 100, 0 100, 0 100, 0 100, 0 100, 0 100, 0 100, 0	1, 368 3, 432 6, 316 3, 383 4, 423 2, 778 1, 3, 666 1, 646 3, 422	16, 4 13, 0 23, 5 33, 3 24, 9 29, 9 31, 0 31, 5 22, 4	354 860 1, 986 1, 181 1, 317 939 1, 217 846 828	4. 2 3. 2 7. 4 11. 6 7. 4 10. 1 10. 3 16. 2 5. 4	851 1,709 3,331 1,674 2,378 1,268 1,916 526 2,143	10, 2 6, 5 12, 4 16, 5 13, 4 13, 7 16, 2 10, 1 14, 0	1, 205 2, 569 5, 317 2, 855 3, 695 2, 207 3, 133 1, 372 2, 971	14 4 9. 7 19. 8 28. 1 20. 8 23. 8 26. 5 26. 3 19. 5	163 863 999 528 728 571 533 274 451	2. 0 3. 3 3. 7 5. 2 4. 1 6. 2 4. 5 5. 2 3. 0	517 1, 723 2, 985 1, 709 2, 045 1, 510 1, 750 1, 120 1, 279	6. 2 6. 5 11 1 16. 8 11. 5 16. 3 14. 8 21. 4 8. 4
Population-density: Big cities Small cities and suburbs Towns Rural areas	22, 059 35, 358 21, 147 52, 662	100, 0 100, 0 100, 0 100, 0	2, 365 6, 376 5, 334 16, 359	10. 7 18. 0 25. 2 31. 1	432 1, 474 1, 861 5, 758	2. 0 4. 2 8. 8 10. 9	1, 730 4, 182 2, 667 7, 218	7. 8 11. 8 12. 6 13. ~	2, 162 5, 656 4, 528 12, 976	9, 8 16, 0 21, 4 24, 6	203 720 806 3, 383	0, 9 2, 0 3, 8 6, 4	635 2, 194 2, 66: 9, 141	2. 9 6. 2 12. 6 17. 4
Sex: Men . Women	62, 732 68, 4 ⁹ 4		23, 171 7, 264	36, 9 10, 6	8, 820 705	14. 1	9, 559 6, 239	15. 2 9. 1	18, 379 6, 944	29. 3 10. 1	4, 792 320	7. 6 0. 5	13, 612 1, 025	21. 7 1. 5
Age groups: 12-15 years 16-17 years 18-24 years 25-34 years 35-44 years 45-64 years 65 years and over.	13, 210 5, 548 15, 216 21, 929 23, 523 36, 287 15, 513	100, 0 100, 0 100, 0 100, 0 100, 0 100, 0	4, 118 1, 577 3, 838 5, 876 6, 007 7, 378 1, 540	51, 2 28, 4 25, 2 26, 8 25, 9 20, 3 10, 0	1, 212 592 1, 443 1, 991 1, 868 2, 062 359	9, 2 10, 7 9, 5 9, 1 7, 9 5, 7 2, 3	2, 505 581 1, 509 2, 825 3, 207 4, 221 948	19, 0 10, 5 9, 9 12, 9 13, 6 11, 6 6, 1	1, 173 2, 952 4, 816 5, 075 6, 283	28. 1 21. 1 19. 4 22. 0 21. 6 17. 3 8. 4	401 404 886 1, 060 1, 022 1, 095 242	3, 0 7, 3 5, 8 4, 8 4, 3 3, 0 1, 6	1, 613 996 2, 329 3, 051 2, 890 3, 157 601	12. 2 18. 0 15. 3 13. 9 12. 3 8. 7 3. 9

Note. These commutes of the mamber of the population are derived from the sample survey. These commutes vary from the number of the population derived in the 1960 Census of the Population because of sampling variability.

Table 16.—Number of Persons Who Fished in Fresh Water and in Salt Water in 1960

Grouping	Total number 12 and over Stat	in United	Total person.	who bill of	Especial in th	1 is de	1.1 00	with
	Number	Percent	Number	Per eus	Notation	Proces	No.	ll oet.
-	How mis		12 mile	1 - 3				
Cnited States total Sext	131, 226	100 11	25, 325					
Men . Womer, . Age,	62, 732 68, ‡94	100 0	18 37 6, 944	20 3	15. N2 5. N57	- 0		
12	13, 210 5, 548 15, 216	100, 0 100, 0 100, 0	3 717 1, 173 2, 952	28 1 21 1 19 4	1. 62 2. 475	2 - 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1		
18-24 years 25-34 years 35-44 years	21, 929 23, 523	100, 0 100, 0 100, 0	3, 816 5, 075	22 0	4, 018 4, 342	15 3 16 5	1 200	
45 64 years 65 years and over	36, 287 15, 513	100, 0 100, 0	6, 28 š 1, 307	17. 5 8. 4	5, 246 1, 143	1 - 4	13 20-5	

Non-The estimates for a inher of the position of thom becompleaded. Therefore a contribution of Cross (1999) and the first form

Table 17.—Number of Persons Who Hunted Big Game, Small Game, and Waterfowl in 1960

Groupine	12 and over i	Total number of persons 12 and over in United States		Total persons who hunted		Hunted big game		Hunted small game		Hunted waterfowl	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
United States total	Thousands 131, 226	100. 0	Thousands 14, 637	11. 2	Thousands 6, 277	4. 8	Thousands 12, 105	9, 2	Thousands 1, 955	1. 5	
Sex: Men Women	62, 732 68, 494	100, 0 100, 0	13, 612 1, 025	21. 7	5, 809 468	9. 3	11, 396 709	18. 2 1. 0	1. 837 118	2. 9 . 2	
Age: 12–15 years 16–17 years 18–24 years 25–34 years 35–44 years 45–64 years 65 years and over	13, 210 5, 548 15, 216 21, 929 23, 523 36, 287 15, 513	100, 0 100, 0 100, 0 100, 0 100, 0 100, 0	1, 613 996 2, 329 3, 051 2, 890 3, 157 601	12. 2 18. 0 15. 3 13. 9 12. 3 8. 7 3. 9	472 359 907 1, 474 1, 315 1, 464 286	3. 6 6. 5 6. 0 6. 7 5. 6 4. 0 1 8	1, 482 919 2, 018 2, 458 2, 272 2, 519 437	11. 2 16. 6 13. 3 11. 2 7. 7 6. 9 2. 8	185 161 328 393 394 434 50	1. 4 2. 9 2. 2 1. 8 1. 7 1. 2	

Note. These estimates of the number of the population are derived from the sample survey. These estimates vary from the number of the population derived in the 1960 Census of the Population because of sampling variability.

Table 18.—Fresh-Water Fishermen by Type of Waters Fished in Most Often and Geographic Division in 1960

			Exprs o	f fresh-water					151/-	10 1 -0 100	
Census geographic division of residence	Lotal Iresh-water fishermen	Man-o	rade	Natural lakes and	Rivers	Cer e . Chaptie to rive classification	Loto Levier Informeri	Mariet	, nde	National lakes and	Re and
		Reservous	Ponds	stir anns	Ponds			Reserve	Ponds	ponds	streams
United States total:						South Militar					
Number (thousands)	21, 677	4, 798	2, 518	, 411	1, 49	Nemore Officer and			- 3		1.219
Percent	1(1(1-1)	22. 1	11 6		34 6	Percent			1 - 2	15 11	13 7
						East South Central					
New England						Number (thorsand)		7.1	5.13	171	- 1
Number (thousands)	Ot Rep		1.1		217	Percent	100	- 4	1 1	U 1	
Percent	[00]		1.2		-2.5	West South Central					
Middle Atlantic						Number (thousands)			÷1 -		1,7 }
Number (theorsands)	1, 484	171	100	521	686	Percent		1,50	14 1,		_ 1 ~
Percent	100 0	11 5	- 1	-5.1	1, 1	Mountain					
East North Central:						Number (thousands)		10			1 1 %
Number (thousands)	5, 250	784	55,(1	2 695	1,416	Percent		11 1		15.0	-1 1
Percent]+)(1-(1	14 11	6.8	51 3	27 0	Partific:					
West North Central						Number (thousand)		514			1 152
Number (thousands)	2, 842	5.11	36	1 232	- 14	Per cur					
Pen ent	100,0	; 7 1	12.0	43.3	25.8						

Table 19.—Salt-Water Fishermen by Major Coast and Type of Fishing in 1960

Type of fishing	Total number salt-water fishermen in United States		Atlantic coast		Gulf coast		Pacific coast	
- , , , , , , , , , , , , , , , , , , ,	Number	Percent	Number	Percent	Number	Percent	Number	Percent
United States total	Thousands 6, 292	100.0	Thousands 3, 383	100. 0	Thousands 1, 437	100, 0	Thousands 1, 473	100, 0
Surf fishing Bay and sound fishing Tidal river and stream fishing . Ocean fishing	1, 652 3, 507 1, 567 3, 484	26. 3 55. 7 24. 9 55. 4	821 1, 947 959 1, 813	24. 3 57. 6 28. 3 53. 6	442 847 357 745	30, 8 58, 9 24, 8 51, 8	389 713 251 926	26. 4 48. 4 17. 0 62. 9

Table 20.—Number of Persons Who Took Specified Numbers of Fishing or Hunting Trips in 1960

Number of trips		tho fished hunted		is who ied	Persons who hunted		
	Number	Percent	Number	Percent	Number	Percent	
	Thou-	***************************************	Thou- sands		I how-		
United States total .	30, 435	100.0	25, 323	1()()-()	14.637	100, 0	
Once .	3, 841	12. 6	3, 734	1.4 ~	2, ()~+)	14. 2	
Twice .	2, 502	8. 2	2, 391	0,4	1, 296	8. 9	
3 times	2, 148	7.1	2.119	8, 4	1, 191	8.1	
4 or 5 times .	3, 122	10.3	2, 965	11. ~	2, 021	13. 8	
6 to 10 times	5, 247	17.2	4, 418	17 4	2, 900	19.8	
11 to 15 times	3, 227	10, 6	2, 731	10, 8	1, 688	11.5	
16 to 25 times	3, 624	11 9	2, 627	10 4	1, 665	11. 4	
26 to 50 times	3, 900	12. 8	2, 623	10, 4	1, 361	9 3	
51 to 100 times	1, 910	6.3	1, 031	4. 1	3,53	2.4	
I01 to 199 times	725	2. 4	564	2. 2	65	. 4	
200 times and over	188	, 6	117	. 5	18	. 1	

Table 21.—Number of Persons Who Traveled Specified Distances on Fishing or Hunting Trips in 1960

		_		
Distance traveled	Persons w	ho fis red	Pri mi v	short are l
	Number	Percent	Number	Percent
United States total	I (a.a. 197) 25, 323	100 0	14,000	1 1
Less than 1 mile 1 99 miles	1, 961 6, 826	2" ()	370 4 550	1 1
100 -249 miles	3, 089	15. 8	2 11	11 (
250- 499 miles 500- 749 miles	3, 322 2, 188	13 1	2, 450	110
750 999 miles 1,000 I 499 miles	1, 551 1, 692	6. 1	183	5 3 6 5
1,500 1,999 miles 2,000 2,999 miles	1, 074	4 2 4 6	557 374	7 S
3,000-4,999 miles 5,000 miles and over	1, 056	4 2	302 111	2 [

Table 22.—Persons Who Took Fishing or Hunting Trips Lasting More Than 1 Day in 1960

Grouping	Total number and over in U		Fished on trips than 1		Hunted on trips than 1	
	Number	Percent	Number	Percent	Number	Percent
United States total	Thousands 131, 226	1(n) ()	I housands 8, 052	0.1	Thousands 3, 305	2. 5
Census geographic divisions: New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Tournal Mountain Pacific Population-density: Big cities Small cities and suburbs Towns, Rural areas	8, 349 26, 493 26, 833 10, 149 17, 798 9, 277 11, 837 5, 222 15, 268 22, 059 35, 358 21, 147 52, 662	100, 0 100, 0	313 496 1, 877 1, 169 696 488 1, 002 709 1, 210 799 2, 346 1, 343 3, 564	3. 7 1. 9 7. 0 11. 5 3. 9 5. 3 8. 5 15. 3 7. 9 3. 6 6. 6 6. 4 6. 4	273 796 381 257 125 333 414 641 273 31 607 1, 692	1. (1. (3. (3. 8 1. 3 2. 8 7. 9 4. 2 1. 2 2. 1 2. 1 2. 3
Sex: Men Women,	62, 732 68, 494	100 o 100, o	5, 922 2, 130	0. 4 3. I	3, 028 277	4. 8
Age: 12-15 years 16-17 years 18-24 years 25-34 years 35-44 years 45-04 years 65 years and over.	13, 210 5, 548 15, 216 21, 929 23, 523 36, 287 15, 513	160, 0 100, 0 100, 0 100, 0 100, 0 100, 0 100, 0	1, 058 304 (8. 0 5. 5 5. 1 7. 4 7. 3 6. 2 2. 0	209 155 433 780 761 832 126	1. 6 2. 8 2. 8 3. 6 3. 2 2. 3

Nort. These estimates of the number of the population are derived from the sample of the computer of the population derived in the Population because of ampling variability.

Table 23.—State Fishing and Hunting License Holders in 1960

Type fishing and hunting	Total nu years o older in Sta	ld and United	Lace	used	Unliet d		
	Number	Percent	Number	Percent	- Number	Percent	
Total fishermen			I nous puls 15, 330			30.4	
Fished in fresh water Fished in salt water	21.677	100 () 100, ()	14, 4 '6 2, 732	66 S 13 1	3, 200 3, 561	33. <u>2</u> 56. 6	
Total hunters	14, 637 +	100, 0	11, 878	81 1	2, 761	18. 9	
Hunted big game Hunted small game Hunted waterfowl	6, 277 12, 105 1, 955	100, 0 100, 0 100 0	5, 826 9, 545 1, 772		454 2, 561 181	7. 2 21. 2 11. 3	

Table 24.—Mourning Dove Hunters in 1960 by Geographic Region of Residence of Hunter

Census e oeraphic region	Note that the second	(11) (1) (1) (1)
	_	
United States total	$f(r) = \frac{1}{r}$	
Northeast North Central South	1 m 1 m 1/1 m	1
West	21.	

Table 25.—Number of Persons 14 Years Old and Over in the Labor Force Who Fished and Hunted During 1960 by Major Occupation Group

Major occupation group	Total persons in the labor force in United States		fished and or		Persons who fished and hunted		Persons who fished only		Total persons who fished		Persons who hunted only	Total persons who hunted		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
United States total	Thousands 70, 043	100, 0	Thousands 20, 419	29. 2	Thousands 7, 254	10. 4	Thousands	13. 0	Thousands 16, 340	23. 3	Thousands 4, 079	5. 8	Thousands 11, 333	16, 2
Professional, technical, and kindred workers Farmers and farm managers	7, 682 2, 824	100, 0 100, 0	2, 180 1, 358	28. 4 48. 1	682 586	8. 9 20. 8	1, 294	16, 8 11, 0	1, 976 897	25. 7 31. 8	204 461	2. 7 16. 3	886 1, 047	11. 5 37. 1
Managers, officials, and proprietors, except farm Clerical and kindred workers Sales workers	7, 300 9, 978 4, 912	100. 0 100. 0 100. 0	2, 513 1, 825 1, 221	34. 4 18. 3 24. 9	885 455 390	12. 1 4. 6 7. 9	1, 200 1, 164 613	16. 4 11. 7 12. 5	2, 085 1, 619 1, 003	28. 6 16. 2 20. 4	428 206 218	5. 9 2. 1 4. 4	1, 313 661 608	18. 0 6. 6 12. 4
Craftsmen, foremen, and kindred workers Operatives and kindred workers Private household workers	9, 097 12, 702 2, 646	100. 0 100. 0 100. 0	3, 740 3, 991 291	41. 1 31. 4 11. 0	1, 583 1, 511 32	17. 4 11. 9 1. 2	1.523	16. 4 12. 0 9. 1	3, 077 3, 034 272	33. 8 23. 9 10. 3	663 957 19	7. 3 7. 5	2, 246 2, 468 51	24. 7 19. 4 1. 9
Service workers, except private household Farm laborers and foremen Laborers, except farm and mine	6, 768 1, 980 4, 154	100, 0 100, 0 100, 0	1, 124 762 1, 414	16. 6 38. 5 34. 0	286 297 547	4. 2 15. 0 13. 2	631 191 425	9, 3 9, 6 10, 2	917 488 972	13. 5 24. 6 23. 4	207 274 442	3. 1 13. 8 10. 6	493 571 989	7. 3 28. 8 23. 8

Table 26.—Percentage of Sport Fishermen and Hunters With Family Incomes Below Specified Levels in 1960

Table 28.—Mileage Traveled by - ut mobile in 1960

Family income 2001	Dish to not on our remarker of honor or and honor		· (-r ,b).
Family income under = \$3.0 th \$4.0 th \$5.10 th \$5.10 th \$6.10 th \$6.10 th \$7.50 th \$15.00 th \$15	70 - 9 17 - 2 24 - 1 14 71. 0 95. 9	Sa - 7	
\$15,000 and over		P () Seq. (1) (0) (W. (4) T ()	15

Table 27.—Number of Fisherman and Hunters Wh Fished or Hunted Both in the United States a d Outside the United States

Place stated orbits for the	· 1 > ,		
United States and United States and			
Canada Mexico Other countries			

APPENDIX B-DEFINITIONS

Sport Fishing

Sport fishing is the act of catching, or attempting to catch, fish with a hook and line, rod and reel, spear-fishing equipment, or bow and arrow.

Sport Hunting

Sport hunting is the act of taking, or attempting to take, game with a firearm or bow and arrow.

Sport Fishing and Hunting Outside the United States

Resident United States sportsmen who fished and hunted in the United States in 1960 are included in this survey. Those whose only fishing or hunting activity took place outside the United States are not included.

Expenditures on Sport Fishing and Hunting

Expenditures on sport fishing and hunting made in the United States during 1900 are shown in the illustrations on pages 1 and 3-16 and in the tables on pages 43-48. Individual fishermen and hunters identified from a sample of households were asked detailed questions about their expenditures on these sports in personal interviews. Some spent nothing, others spent relatively large amounts of money. No one reported on the expenditures of some other sportsmen except for some under 16 years of age. The illustrations and tables show National figures

in total and by different him. To him and him are or type of goods and services bengnt. The portion is expenditures include purchases by individual and the arm of gifts received during 1960. Sportsment the picket in each purchase, the activity for which the used this through settle most. The chure expenditure for these items has shown ander the designated activity despite the fact that the items male have been used for more than one activity. Total expenditures on goods and services made chiefly for fishing and hunting are the sum of expenditures on: I food and lodging: 2 transportation: 3 auxiliary equipment: I fishing and hunting equipment: (5) licenses, tags, and permits; and 6 privilege fees and other.

(1) Food and ledging. Outlays on food and lodging are the sum of expenditures on these items made by sportsmen on ashing and hunting trips. Outlays on food are the sum of meals plus the cost of snacks and refeshments while fishing and hunting. However, \$7.77 a week per person was deducted from outlays for restaurant meals to account for that portion of these meal costs representing the average cost of meals cate rat home. The cost of groceries brought from home, or parchased on a ushing or hunting trip for preparation by the sportsman, plus all kinds of alcoholic beverages, was excluded from outlays on food.

Outlays on lodging while fishing and hunting were obtained directly from the schedule as reported by the sportsman as his share of these costs.

(2) Imasportation. Outlays on transportation are the sum of expenditures on automobile transportation and for all other

types of transportation when primarily for a fishing and hunting trip.

Expenditures on automobile transportation were computed at 4 cents a mile and these were divided among the number of sportsmen making a trip together. Expenditures on all other types of transportation, or a share thereof when not of a public type, when made as part of a fishing and hunting trip, were included in expenditures on transportation.

- (3) Auxiliary equipment.—Expenditures on auxiliary equipment are the sum of purchases and the cost of maintenance of (a) boats and boat motors and (b) general equipment used primarily for hunting and fishing. General equipment expenditures are the sum of purchases and cost of maintenance of tents, sleeping gear, cooking and eating utensils, special clothing, lanterns, binoculars, trailers, cabins, and other equipment used primarily for fishing and hunting.
- (4) Fishing and hunting equipment.—Expenditures of sport fishermen on fishing equipment are the sum of purchases and cost of maintenance of rods, poles, reels, lines, harnesses, nets, seines, minnow buckets, scales, ice-fishing gear, spear-fishing gear, and all other equipment used specifically for fishing.

Expenditures of sport hunters on hunting equipment are the sum of purchases and the cosc of maintenance of guns and rifles, shells and cartridges, bows and arrows, gunsights, targets, decoys and calls, and all other equipment used specifically for hunting.

(5) Liennes, begin and permits—Expenditures on fishing and hunting licenses, tags, stamps and permits are the sum of fees paid for these items to Federal and State governments for the privilege of sport fishing and hunting. Total sales in 1960 of Migratory Bird Hunting Stamps, required of all 16 years of age and over who hunt waterfowl, amounted to 1,621,431 compared

with the 1,526,000 shown in the survey on page 13. Some of this difference is due to the sale of duck stamps to persons who did no waterfowl hunting during 1960.

- (6) Practing fies and other.—Expenditures on privilege fees and other expenses primarily for fishing and hunting are the sum of (a) daily entrance and other privilege fees; (b) annual lease and privilege fees; (c) bait, guide fees, and other trip expenses; (d) boat launchings; (e) expenditures on hunting dogs, and (f) other expenses.
- (a Annual least and privilege fees include the purchase of the privilege to fish or to hunt on private lands on a seasonal or annual basis.
- (b) ENTRANCE AND OTHER PRIVILEGE FEES.—Expenditures on entrance and other privilege fees include the purchase of the privilege to fish or to hunt on private lands on a daily or trip basis. These expenditures include the fees paid by sport hunters to hunt on shooting preserves.
- (c) Byth, guide thes. And other trip expenses.—Expenditures on bair, guide fees, and other trip expenses for fishing and haming are the sum of these items plus such other items as rentals, charter fees, pack-trip fees, gasoline for the boat, and ice.
- the sum of costs for use of launching facilities primarily for fishing.
- (e) Expenditures on hunting bods.—Expenditures on hunting dogs are the sum of purchase and upkeep of dogs used primarily for hunting.
- (f) Other expenses.—Other expenses are the sum of the costs of fishing and hunting magazines, general club dues, admittance

fees for fishing and hunting or, public lands, and costs not classified in other categories.

Coastal Area Fished

The number of salt-water (ishermen and their expenditums are divided among the coastar areas of the Unite. States—he Atlantic, the Cutth and the Pacific.—These data are shown in the illustrations on pages 12 and 10 and in the tables or pages 14 Pr.—Lac Atlantic Coast includes the coast, area from Canada south through Dady County, Floride, he Cutt Coast, from Dade County, Horide to Meshed and the Pacific Coast, from Canada to Mexico.—Salt-water is, either who asked beyond the territorial limits of the United States and remained to a port in the United States are belonded in these statistics. Those who fished only from ports on side to United States are not included.

Fresh-Water and Salt-Water Sport Fishermen and Big-Game, Small-Game, and Waterfow! Sport Hunters

The random or sport disterning and hunters in the United States in 17 off is shown in the Hals random states as mages 19-22 and a flow raths on pages 52.7%. The rate is also show these sportsmen by sex and by age divisions.

Sport (shormen are classified as fresh-value) and use a saft-water and its. Tresh-value sport asting is done as fishing on infands a constitutes, pends, reservors, and a costal sneams above fide but is. Self-water sport is hing is done for a ushing in the occar to as al bays and estuanes, sufficial boosta, streams below independent. Many anglers (isl, in 1504) reship after and saft water. Consequently, the sum of the number of total anglers and saft-value, inglers exceeds the number of total anglers reported.

Sport and action of the second of the man and manners, and action of the man action

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Persons 12 to the control of the con

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12 15 years. Year 19 25

The Property Office

18–24 years.	The getting started age—young adults, pre- marriage and early marriage, college students,
	and job starters
25-34 years.	Young married people beginning families
35-44 years.	Parenthood and setting up economic status
45-64 years.	Middle age and peak of economic status

Households

Standard Bureau of the Census definitions were used to classify this subject (see Statistical Abstract of the United States).

The standard divisions used for dividing the United States into geographic sections are shown on the map on page 50.

Trend of Population and Sport Fishermen and Hunters

65 years and over. Retirement and old age.

The trends of the population and of the number of sport fishermen and hunters, 1955 through 1975, are shown in the illustration on page 23. Total United States population trend data were furnished by the Bureau of the Census.

The trend in number of sport fishermen and hunters was constructed from statistics obtained from a simple correlation of (1) the number of fishermen and hunters and (2) per capita disposable personal income after taxes—both series for the period 1947–1960.

These projections measure the future only by the present trends of the population, numbers of sportsmen, and personal income.

Sport Fishing and Hunting Trips

Transportation for sport fishing and hunting trips includes all types—from walking to air travel. The automobile accounted

for the major portion of the trips and distance traveled. Illustrations showing summary data on trips and automobile passenger mileage are on pages 4 and 5, and total automobile travel on pages 31–33. Additional data on trips are shown on pages 57 and 58.

Distance traveled is the total number of miles traveled using all types of transportation on trips taken primarily for sport fishing and hunting.

Car miles are the miles traveled by automobile primarily for sport fishing and hunting. Passenger miles are the number of miles traveled by sport fishermen and hunters in automobiles on trips taken primarily for fishing and hunting. For example, if three fishermen traveled 100 miles on a fishing trip, the car miles would be 100 and the passenger miles would be 300.

Recreation Day

A recreation day is a day, any part of which was spent fishing or hunting.

Sport Fishing and Hunting Licenses

Most sportsmen who fish or hunt are required to buy licenses and to pay specific fees to the State or Federal governments. Since 1955 the number exempted from paying for such purchases has been reduced considerably. Sportsmen who are exempted in some States from paying some kind of fee include: (1) those under a specified age; (2) those over a specified age; (3) the disabled; (4) active servicemen; (5) property owners; and, (6) aborigines and indigents. Licenses are required for fishing in salt water in only two States. The reduction in the number of sportsmen exempted from paying for a license or fee is clearly shown in the case of those under 16 years of age

who desire to fish. In 1955 persons under 16 years old could fish without a license in over half the States. In 1960, persons under 16 years old could fish without licenses in only 9 States. Most States have now canceled the privileges of free fishing formerly given to yeterans and active servicemen.

The relationship between the number of sportsmen licensed and unlicensed in the 1955 and 1960 surveys shows an increase for fishing licenses but a slight decrease for hunting licenses. These relationships are shown in the following tabulation.

Sportsmen by License Status and by Activity

	To find		Hint.	
	11111			
Lotal portsmen	914312 (100)	1000		
Number Incored	1 1 7 17 () ()	15 1 20 COLD		
Percent Incensed	1 1			

Membership in Fishing and Hunting Clubs

Persons interviewed were asked about membership in fishing or hunting clubs of any kind. The totals for the United States in 1955 and 1960 are as follows:

	1	
Number		
Percent of all fishermen and or hunters		
Percent of all persons of cars old and over		_

1			

APPENDIX C-AREAS OF MONCOMPATEBILITY BETWEEN THE 1955 AND 1960 NATIONAL SURVEYS OF FISHING AND HUNTING

The 1960 National Survey of Fishing and Hunting differs from the 1955 National Survey on the following points of coverage and classification of expenditures. In general, the two surveys may be compared except for the items noted below. The effect of these items should be considered in assessing trends.

- (1) The difference in coverage results from the addition of Alaska and Hawaii in the 1950 survey. The effect of this is not of major significance.
- 2. The classification of expenditures differs in the following respects:
- a Expenditures on "Boats and Loat it wars" are shown separately in 1960 under "Auxiliary equipment." These expenditures were classified under "Equipment, Other" in 1955.
 - b) Expenditures on "Entrance and chee privilege ties" are

shown departs on the Connader Problem of a solution. These experiments of a classified under a long of the action of Other Problem 1997.

- Associations on the estate of the control of the co
- It has pend the service of a constraint of the conservation of the

APPENDIX D—TECHNIQUE OF THE SURVEY AND DIFFERENCES BETWEEN TOTAL PARTICIPANTS AND SUBSTANTIAL PARTICIPANTS

One of the purposes of the second National Survey of Fishing and Hunting was to bring up to date the results of the earlier survey, which was conducted for 1955. Information desired included estimates of the number of participants in 1960, the extent of their participation, and their expenditures for fishing and hunting.

The results relate to persons 12 years of age and older in the December 1960 civilian noninstitutional population of the United States. In addition to the persons covered by the survey, there may be a number of others who usually participate in these activities but did not do so during 1960. Some of these persons may have purchased licenses or equipment during 1960 for use in fishing or hunting. However, such expenditures were not covered since only those who actually fished or hunted during the year were interviewed.

The survey was conducted for the Bureau of Sport Fisheries and Wildlife by the Bureau of the Census, U.S. Department of Commerce.

The Sample

In order to provide as accurate a cross section of the population as possible, it was decided to relate the sample for the National Survey of Fishing and Hunting to another nation-wide survey conducted monthly by the Bureau of the

Census. As a result, the sample used was a subsample of persons previously selected for the Bureau's Current Population Survey. The sampling plan for the Current Population Survey is described in *Current Population Reports*, Series P-23, No. 5, May 1958, issued by the Bureau of the Census. This sample is used each month by the Bureau of the Census to collect the official government statistics on total employment and unemployment. It is an area probability sample distributed over 333 primary sampling units (PSU's), each being a county or group of counties, in total comprising 641 counties and independent cities in the 50 States and the District of Columbia.

Within each of the 333 sample PSU's, the sample consists of small land areas called segments, each containing approximately six housing units. In determining sample size within each sample PSU, a ratio rather than a fixed quota is employed. The sample is thus self-weighting; that is, each person has the same probability of being selected for the survey. This technique also is self-adjusting for changes in the size and distribution of the population.

Interviewing

Approximately 18,000 households containing about 45,000 persons 12 years of age and older were included in the sample for the National Survey of Fishing and Hunting. Information

was obtained in each household from a responsible adult as to whether any person in that household had fished or hunted during 1960.

A sample of those identified as fishermen or hunters at the first stage was selected for personal interview at a later visit. These visits, made in January and February, 1961, vielded interviews with about 6,500 fishermen and 3,800 hunters, or about 93 percent of those selected for the detailed interviewing. The remainder had moved, were not at home after repeated calls, or were oth rwise not available.

The personnel used for the various phases of the survey were the experienced personnel employed on the Current Population Survey and other regular programs of the Burcau of the Census. Both field supervisors and interviewers received detailed personal training on the content of the survey. Interviewers also were provided complete manuals of instruction, both for training purposes and for assistance while interviewing. In order to assist the sportsmen in providing the desired detail, calendars, lists of equipment items, and booklets of license types were utilized. As each group of households was completed, the results were checked carefully, both for completeness and consistency. The same high degree of quality control was maintained in processing the results and preparing the data.

Differences Between Total Participants and Substantial Participants

As stated in the introductory section of this report, wo sets of estimates have been prepared of fishing and hunting activity one relating to the total number of participants regardless of amount of activity some 50 million persons), and the other, to which this report is primarily devoted, constituting some 40 million persons who represent the more active sportsmen and are

substantial participants. The artistic fere startal participants were verified from the National Same of Fishing and Hunting, described above

The estimates of the total number of participants were obtained from the National Recreation Survey are less of surveys on outdoor recreation activities conducted by the Bareau of the Census for the Outdoor Recreation Resources Review Commission, supplemented by some special follow-up studies sponsored by the Bareau of Sport Fisheries and Wildlife. In these follow-up surveys, relatively small samples of persons year interviewed intensively to identify all recreational occasions, we attems, trips, outings, etc. in different quarters of the year and then to report on all types of activities (including fishing and hunting in which they engaged on each occasion.

The National Retreation Survey showed a larger number of the population participating in sport fishing and hunting than the National Survey of Fishing and Hunting. Nervice survey was designed to duplicate the other except for the retal number of people participating in sport ashing and anatim, and some other limited information about these totals. The National Recordion Survey was designed to measure all types of recreational activities while the purpose of the National Recordion. Survey was designed to measure all types of recreational activities while the purpose of the National Recording that the purpose of the National Recording in the National Recording. Into sive proving all a formation surveys did not show the same member of passers purconaring in short fishing and hundring a formation of passers purconaring instance of passers in the National Recording was due to a contract the number of passers in the National Recording Recording to the finding of the first passers of hundred to be a two conditions. Recording the first passers are a finding to the first passers of the conditions of huntred to be a two conditions to the first passers. The resume state profits, to had, a trace of the condition of huntred to be a two conditions of huntred

or the more active and substantial sport hishermen and hunters, as did its predecessor in 1955.

The estimates developed from the National Recreation Survey represent the total number who fished or hunted in 1960, whether incidental or substantial participants, but provide only limited information about the details of fishing and hunting activities such as cost of bait, tackie, travel, and the like. From the standpoint of the main objective of this report—the presentation of detailed information on type and scope of fishing and hunting—the statistics for more substantial participants, developed from the National Survey of Fishing and Hunting, are the more comprehensive. These substantial participants, while constituting about 60 percent of all participants, account for close to 85 percent of recreation days of fishing and hunting and around 99 percent of the expenditures for these activities. Furthermore, valid comparisons with the 1955 results can be made only for the more substantial participants as measured by the National Survey of Fishing and Hunting.

Overall participation in fishing as measured by the National Recreation Survey and the special of low-up studies was estimated at 35 percent of the population 12 years old and over, whereas substantial participants as measured in the National Survey of Fishing and Hunting represented 19 percent of that population group. After deduction of incidental participants—defined, for this purpose, as unlicensed persons with only one or two days of fishing and either no expenditures of less than 85—the gap between these estimates narrows to 4 or 5 percentage points, a large part of which could have resulted from sampling variability. In the case of hunting, the overall participation rate from the National Recreation Survey and the rate for substantial participants in hunting from the National Survey or Fishing and Hunting were 16 percent and 11 percent, respectively. The exclusion of incidental participants eliminates entirely the gap between these two agures.

APPENDIX E-STATISTICAL RELIABILITY ANALYSIS

Statistical Reliability of Major Findings of the 1960 Survey

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To o	Lyanger of States	Note to		I to no bonwoon while the factor of the fact
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