



SOUTH CAROLINA

Bridging the 50-State Survey
of Fishing, Hunting, and Wildlife-
Associated Recreation with
Previous National Survey of
Fishing, Hunting, and Wildlife-
Associated Recreation Trends

Final Methodology Overview

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THE ROCKVILLE INSTITUTE, FOR
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OVERVIEW

In 2016, the Rockville Institute conducted the 50-State Survey of Fishing, Hunting and Wildlife-Associated Recreation (FHWAR); see more details in Rockville Institute (2018). Concurrently, the Census Bureau conducted the 2016 National Survey of FHWAR; see more details in U.S. Department of the Interior, U.S. Fish & Wildlife Service, and U.S. Department of Commerce U.S. Census Bureau (2018). The two surveys were based on samples of addresses intended to be representative of the United States population living in households, and used questionnaires as nearly identical as possible. Both surveys identified likely sports-persons and wildlife watchers within sampled households, and individual participation surveys covered all of calendar year 2016. However, differences in sample design, sample selection process and mode of data collection resulted in estimates that were substantially different between the surveys.

Estimates from the 2016 National Survey of FHWAR are directly comparable to those from previous surveys such as the 2011 National Survey of FHWAR; see U.S. Department of the Interior, U.S. Fish & Wildlife Service, and U.S. Department of Commerce U.S. Census Bureau (2014). Due to its modest sample size, it can only produce reliable estimates at the national and census division level. In contrast, the 50-State Survey of FHWAR produced state-level estimates, but these estimates are not directly comparable to those from previous surveys. The Rockville Institute therefore completed a project to create new state-level estimates that are calibrated to those of the 2016 National Survey of FHWAR. The dual purpose of these calibrated estimates is to maintain the fine level of granularity of the 50-State Survey of FHWAR but enable comparison to previous National Surveys of FHWAR.

Through this bridging project, the Rockville Institute created new state-level tables showing adjusted survey

estimates by state of residency of the participants. These tables show the estimated demographics, participation, days, trips and expenditures, for fishing, hunting and wildlife-related activities for residents of each of the 50 states and DC. The tables correspond to Tables 5, 15, 22, 28, 30, 33, 35, and 36 in the state reports released by the Rockville Institute in 2018, with the exception of Tables 28 and 33, where we report an extended set of statistics compared to those reported in the 50-State Survey of FHWAR report.

The calibration procedure used to create these tables involved a combination of data harmonization and statistical modeling of the differences between the two surveys. The procedure consisted of the following major steps. First, the estimated demographic compositions of both surveys were aligned at the census division level, using survey calibration methods. Second, a statistical model was developed to account for the differences in participation rates in hunting, fishing and wildlife-related activities between the two surveys. This “bridging model” was used to predict state-level participating rates that are consistent with those obtained using the Census Bureau methodology. By combining these predicted participation rates with the harmonized population estimates, calibrated estimates of the numbers of participants in each state were obtained. Third, the characteristics of the participants’ activities, such as the number and type of activities, days of participation and types of associated expenditures, were adjusted by means of estimated products or ratios of these characteristics between the two surveys. Finally, applying these products or ratios to the calibrated estimates of the participant numbers made it possible to produce the calibrated tables of estimates mentioned above. For more details about the bridging project, see Rockville Institute (2020).

References

- Rockville Institute. 2018. *2016 50-State Survey of Fishing, Hunting, and Wildlife-Related Recreation: National*.
- Rockville Institute. 2020. *Bridging the 50-State Surveys of Fishing, Hunting, and Wildlife-Associated Recreation with Previous National Survey of Fishing, Hunting, and Wildlife-Associated Recreation Trends. Final Methodology Report*.
- U.S. Department of the Interior, U.S. Fish and Wildlife Service, and U.S. Department of Commerce U.S. Census Bureau. 2014. *2011 National Survey of Fishing, Hunting, and Wildlife-Related Recreation*.
- U.S. Department of the Interior, U.S. Fish and Wildlife Service, and U.S. Department of Commerce U.S. Census Bureau. 2018. *2016 National Survey of Fishing, Hunting, and Wildlife-Related Recreation*.

APPENDIX A: POINT ESTIMATES

The tables in Appendix A depict the calibrated point estimates, subject to rounding error. The format of the calibrated tables in this appendix matches closely the format used in the 50-State Survey of FHWAR reports. Summary statistics reported in the calibrated tables are described below, by table.

Table 5

Fishing and hunting, participation, days, and trips

- Total fishing participation and total hunting participation: product-type statistics derived using model predictions for percent participation in the population and total population based on adjusted 50-State Survey of FHWAR weights.
- Total freshwater, freshwater except Great Lakes, Great Lakes, and saltwater fishing participation, total big game, small game, migratory birds, and other animals hunting participation: product-type statistics derived using total fishing participation, total hunting participation, percent participation of freshwater, freshwater except Great Lakes, Great Lakes, and saltwater fishing in all fishing, and percent participation of big game, small game, migratory birds, and other animals hunting in all hunting (columns denoted by %).
- Total fishing (all and subcategories) days/trips of participation and total hunting (all and subcategories) days/trips of participation: product-type statistics derived using total number of fishing (all and subcategories) participants, total number of hunting (all and subcategories) participants, and days/trips per participant (not displayed).
- Percent participation (columns denoted by %): statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the fishing or hunting survey for the fishing and hunting sections, respectively.

Table 15

Fishing and hunting, demographics

- Total population (all and subcategories): composite statistics constructed using 2-way composite factors to adjusted 50-State Survey of FHWAR final weights, using data from both the fishing and the hunting surveys.
- Total number of anglers and total number of hunters: product-type statistics derived using model predictions for percent participation in the population (columns denoted by % Pop.), and total population based on adjusted 50-State Survey of FHWAR final weights.
- Total number of sportspersons: ratio-type statistics derived using total number of anglers and percent anglers in sportspersons (not displayed).
- Total population, sportspersons, anglers, hunters, by demographics: product-type statistics, derived using total population, sportspersons, anglers, hunters participation, and percent demographic-specific participation in total participation (columns denoted by %).
- Percent demographic-specific population, sportspersons, anglers, hunters participation in total participation (columns denoted by %): composite statistics constructed using 2-way composite factors to adjusted 50-State Survey of FHWAR final weights, using data from the fishing and hunting surveys.
- Percent demographic-specific anglers and hunters participation in the total demographic-specific population (columns denoted by % Pop.): ratio-type statistics, derived using total demographic-specific anglers and hunters participation and total demographic-specific population.

- Percent total and demographic-specific sportspersons participation in the total and demographic-specific population (column denoted by % Pop.): ratio-type statistics, derived using total population and sportspersons participation.

Table 22

Fishing and hunting, spenders and expenses

- Total fishing and hunting expenditure (all and subcategories) amount, total fishing expenditure (all and subcategories) amount, total hunting expenditure (all and subcategories) amount, and total unspecified expenditure amount: product-type statistics derived using expenditure amount per participant (columns denoted by Average Per Sportsperson), and total sportspersons participation (all and subcategories), total anglers participation (all and subcategories), total hunters participation (all and subcategories) and total sportspersons participation, respectively.
- Expenditure amount per participant (columns denoted by Average Per Sportsperson) and expenditure amount per spender (columns denoted by Average Per Spender):
 - > Fishing section: statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the fishing survey only.
 - > Hunting section: statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the hunting survey only.
 - > Fishing and hunting, and unspecified sections: except for some expenses and spenders noted in the table footnotes, these are composite statistics constructed using 2-way composite factors to adjusted 50-State Survey of FHWAR final weights, using data from the fishing and hunting surveys.
- Total fishing and hunting (all and subcategories) number of spenders, total fishing (all and subcategories) number of spenders, total hunting (all and subcategories) number of spenders, and total unspecified number of spenders: product-type statistics derived using the percent spenders in total participation (not displayed), and total sportspersons participation (all and subcategories),

total anglers participation (all and subcategories), total hunters participation (all and subcategories) and total sportspersons participation, respectively.

Table 28

Wildlife watching, participation, days, and trips

- Total wildlife watching participation: product-type statistics derived using model predictions for percent participation in the population, and total population based on adjusted 50-State Survey of FHWAR final weights.
- Total away from home (all and subcategories) and around the home (all and subcategories) wildlife watching participation: product-type statistics derived using total wildlife watching participation, and percent participation of away from home (all and subcategories) and around the home (all and subcategories) wildlife watching in all wildlife watching (columns denoted by %).
- Total wildlife watching (all and subcategories) days/trips of participation: product-type statistics derived using total number of wildlife watching (all and subcategories) participants and days/trips per participant (not displayed).
- Percent participation (columns denoted by %): statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the wildlife watching survey.
- Percent participation in the total population (column denoted by % Pop.): ratio-type statistics, derived using total population from Table 30 and wildlife watching participation.

Table 30

Wildlife watching, demographics

- Total population (all and subcategories): composite statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the wildlife watching survey. Note that the total population estimates in Tables 15 and 30 differ due to demographic harmonization without state targets estimated from the National Survey of FHWAR (information not available); see Rockville Institute (2020) for more details about the demographic harmonization.

- Total number of wildlife watchers: product-type statistics derived using model predictions for percent participation in the population (columns denoted by % Pop.) and total population based on adjusted 50-State Survey of FHWAR weights.
- Total number of away from home or around the home wildlife watchers: product-type statistics derived using total number of wildlife watchers, and percent away from home or around the home wildlife watchers in all wildlife watchers (columns denoted by % Pop. in Table 35; not displayed).
- Total population, wildlife watchers, away from home, around the home, by demographics: product-type statistics, derived using total population, wildlife watchers, away from home, around the home participation, and percent demographic-specific participation in total participation (columns denoted by %).
- Percent demographic-specific population, wildlife watchers, away from home, around the home participation in total participation (columns denoted by %): composite statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the wildlife watching survey.
- Percent demographic-specific wildlife watchers, participation in the total demographic-specific population (column denoted by % Pop.): ratio-type statistics, derived using total demographic-specific wildlife watchers participation and total demographic-specific population.
- Percent total and demographic-specific away from home and around the home participation in the total and demographic-specific population (columns denoted by % Pop.): ratio-type statistics, derived using total population and away from home and around the home participation, respectively.

Table 33

Wildlife watching, spenders and expenditures — three versions for all wildlife watchers, away from home wildlife watchers, and around the home wildlife watchers

- Total wildlife watching expenditure (all and subcategories) amount: product-type statistics derived using total number of wildlife watching (all and subcategories)

participants and expenditure amount per participant (columns denoted by Average Per Wildlife Watcher).

- Expenditure amount per participant (columns denoted by Average Per Wildlife Watcher) and expenditure amount per spender (columns denoted by Average Per Spender): statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the wildlife watching survey only.
- Total wildlife watching (all and subcategories) number of spenders: product-type statistics derived using total number of wildlife watching (all and subcategories) participants and the percent spenders in total participation (columns denoted by Percent of Wildlife Watchers).
- Percent spenders in total participation (columns denoted by Percent of Wildlife Watchers): statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the wildlife watching survey only.

Table 35

Wildlife watchers participating in fishing and hunting

- Total number of wildlife watchers: product-type statistics derived using model predictions for percent participation in the population (columns denoted by % Pop. in Table 30), and total population based on adjusted 50-State Survey of FHWAR final weights (displayed in Table 30).
- Total number of away from home or around the home wildlife watchers: product-type statistics derived using total number of wildlife watchers, and percent away from home or around the home wildlife watchers in all wildlife watchers (columns not displayed).
- Total number of wildlife watchers, away from home, around the home who did not fish or hunt, fished or hunted, fished, hunted: product-type statistics, derived using total number of wildlife watchers, and percent sportsperson-specific category in the corresponding total participation (columns denoted by %).
- Percent sportsperson-specific category in the corresponding total participation (columns denoted by %): statistics constructed using full adjusted 50-State Survey of FHWAR final weights, using data from the wildlife watching survey.

Table 36

Sportspersons participating in wildlife watching

- Total number of sportspersons: ratio-type statistics derived using total number of anglers, percent anglers in sportspersons (not displayed).
- Total number of anglers or total number of hunters: product-type statistics derived using model predictions for percent participation in the population (columns denoted by % Pop. in Table 15), and total population based on adjusted 50-State Survey of FHWAR final weights (displayed in Table 15).
- Total number of sportspersons, anglers, or hunters who did not wildlife watch, wildlife watch, wildlife watch away from home, wildlife watch around the home: product-type statistics, derived using total number of sportspersons, anglers, or hunters, and percent wildlife watcher-specific category in the corresponding total participation (columns denoted by %).
- Percent wildlife watcher-specific category in the corresponding total participation (columns denoted by %): composite statistics constructed using 3-way composite factors to adjusted 50-State Survey of FHWAR final weights, using data from the fishing, hunting, and wildlife watching surveys.

Table 5 South Carolina Resident Anglers and Hunters, Days of Participation and Trips in the United States, by Type of Fishing and Hunting: 2016
(Population 16 years and older. Numbers in thousands)

	PARTICIPANTS		DAYS OF PARTICIPATION		TRIPS	
	#	%	#	%	#	%
ALL FISHING	558	100	12,048	100	8,274	100
All freshwater	438	79	9,453	78	6,102	74
Freshwater, except Great Lakes	438	79	9,451	78	6,101	74
Great Lakes	1	0	2	0	1	0
Saltwater	236	42	2,594	22	2,172	26
ALL HUNTING	242	100	7,704	100	6,271	100
Big game	212	88	6,324	82	3,299	53
Small game	107	44	1,623	21	1,495	24
Migratory birds	65	27	580	8	495	8
Other animals	49	20	1,734	23	983	16

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

Table 15 South Carolina Resident Anglers and Hunters, by Selected Characteristics: 2016
(State population 16 years and older. Numbers in thousands)

	POPULATION		SPORTSPERSONS			ANGLERS			HUNTERS		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
TOTAL	3,956	100	647	16	100	558	14	100	242	6	100
RESIDENCE DENSITY											
Urban	2,627	66	341	13	53	304	12	55	116	4	48
Rural	1,330	34	306	23	47	253	19	45	126	9	52
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	3,694	93	602	16	93	528	14	95	216	6	89
1,000,000 or more	302	8	17	6	3	9	3	2	9	3	4
250,000 to 999,999	2,609	66	482	18	74	434	17	78	168	6	69
50,000 to 249,999	783	20	103	13	16	85	11	15	40	5	16
Outside MSA	263	7	45	17	7	30	11	5	26	10	11
SEX											
Male	1,818	46	386	21	60	328	18	59	172	9	71
Female	2,138	54	261	12	40	230	11	41	70	3	29
AGE											
16 to 17 years	132	3	18	13	3	7	6	1	17	13	7
18 to 24 years	244	6	54	22	8	54	22	10	24	10	10
25 to 34 years	714	18	108	15	17	98	14	17	42	6	17
35 to 44 years	672	17	144	21	22	117	17	21	63	9	26
45 to 54 years	558	14	119	21	18	109	20	20	38	7	16
55 to 64 years	697	18	78	11	12	64	9	11	23	3	10
65 years and older	939	24	126	13	19	110	12	20	35	4	15
65 to 74 years	623	16	92	15	14	76	12	14	31	5	13
75 and older	316	8	34	11	5	34	11	6	4	1	2
ETHNICITY											
Hispanic	247	6	53	22	8	51	21	9	10	4	4
Non-Hispanic	3,709	94	594	16	92	507	14	91	232	6	96
RACE											
White	2,658	67	528	20	82	448	17	80	199	7	82
African American	1,041	26	80	8	12	76	7	14	24	2	10
All Others	258	7	38	15	6	34	13	6	19	7	8

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Table 15 South Carolina Resident Anglers and Hunters, by Selected Characteristics: 2016 (continued)
(State population 16 years and older. Numbers in thousands)

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	POPULATION		SPORTSPERSONS			ANGLERS			HUNTERS		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
ANNUAL HOUSEHOLD INCOME											
Less than \$20,000	548	14	69	13	11	58	11	10	31	6	13
\$20,000 to \$29,999	247	6	27	11	4	22	9	4	8	3	3
\$30,000 to \$39,999	357	9	46	13	7	41	11	7	16	5	7
\$40,000 to \$49,999	284	7	79	28	12	66	23	12	38	13	16
\$50,000 to \$74,999	396	10	83	21	13	74	19	13	42	11	17
\$75,000 to \$99,999	450	11	72	16	11	60	13	11	36	8	15
\$100,000 to \$149,999	394	10	86	22	13	85	21	15	15	4	6
\$150,000 or more	346	9	55	16	8	49	14	9	22	6	9
Not reported	935	24	132	14	20	103	11	18	33	3	14
EDUCATION											
8 years or less	207	5	11	5	2	9	4	2	4	2	2
9 to 12 years	1,297	33	206	16	32	172	13	31	88	7	36
1 to 3 years of college	1,134	29	156	14	24	134	12	24	64	6	26
4 years or more of college	1,319	33	274	21	42	243	18	44	86	7	36

NOTE: Detail does not add to total because of multiple responses. Percent population (% Pop.) columns show the percentage of each row's population who participated in the activity named by the column (the percentage of the population living in urban areas who fished, etc.). Columns labeled "%" under Sportspersons, Anglers, and Hunters show the percentage of each column's participants who are described by the row heading (the percentage of anglers who lived in urban areas, etc.).

Table 22 Expenditures by South Carolina Residents for Fishing and Hunting Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER SPORTSPERSON (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)
FISHING AND HUNTING	2,253,022	3,482	3,599	626
Food and lodging	212,293	328	437	486
Transportation	156,813	242	400	392
Other trip costs ²	316,853	490	685	462
Equipment (fishing, hunting)	479,108	740	1,121	427
Auxiliary equipment ³	119,312	184	771	155
Special equipment ⁴	437,651	676	5,596	78
Magazines, books, and DVDs	4,889	8	65	76
Membership dues/contributions	17,236	27	233	74
Other ⁵	508,868	786	1,364	373
FISHING	795,610	1,426	1,475	539
Food and lodging	102,060	183	229	445
Transportation	67,339	121	186	362
Other trip costs ²	276,488	496	583	474
Fishing equipment	136,403	245	386	353
Auxiliary equipment ³	11,491	21	216	53
Special equipment ⁴	180,430	323	6,373	28
Magazines, books, and DVDs	832	1	44	19
Membership dues/contributions	2,358	4	66	35
Other ⁵	18,209	33	70	260
HUNTING	1,112,263	4,593	4,593	242
Food and lodging	99,871	412	574	174
Transportation	79,650	329	543	147
Other trip costs ²	52,424	216	546	96
Hunting equipment	289,114	1,194	1,408	205
Auxiliary equipment ³	79,162	327	787	101
Special equipment ⁴	82,008	339	3,680	22
Magazines, books, and DVDs	2,731	11	75	36
Membership dues/contributions	12,026	50	234	51
Other ⁵	415,277	1,715	1,726	241
UNSPECIFIED ⁶	188,605	291	2,738	69

1 Average expenditures are annual estimates.

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

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

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

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

6 Respondent could not specify whether expenditure was primarily for either fishing or hunting.

NOTE: Individual estimates do not add to total because of multiple responses, nonresponse, the independent bridging of fishing and hunting participation, and the bridging of sportspersons participation relative to fishing participation.

Table 28 South Carolina Resident Wildlife Watchers Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	PARTICIPANTS			DAYS OF PARTICIPATION		TRIPS	
	#	%	% Pop.	#	%	#	%
WILDLIFE WATCHERS	1,264	100	34	74,085	100	9,554	100
Away from home	457	36	12	11,687	16	9,554	100
Observe wildlife	440	35	12	6,919	9	x	x
Photograph wildlife	257	20	7	4,346	6	x	x
Feed wildlife	204	16	6	2,495	3	x	x
Around the home	1,186	94	32	62,397	84	x	x
Observe wildlife	763	60	21	50,159	68	x	x
Photograph wildlife	400	32	11	5,978	8	x	x
Feed wildlife	772	61	21	x	x	x	x
Visit parks or natural areas ¹	294	23	8	6,260	8	x	x
Maintain plantings or natural areas	306	24	8	x	x	x	x

x Not applicable

¹ Includes visits only to parks or natural areas within one mile of home.

NOTE: Detail does not add to total because of multiple responses. Percent population (% Pop.) columns show the percentage of each row's population who participated in the activity named by the column (the percentage of the population who observed wildlife away from home, etc.). Columns labeled "%" show the percentage of each column's participants who are described by the row heading (the percentage of wildlife watchers who observed wildlife away from home, etc.).

Table 30 South Carolina Resident Wildlife Watchers, by Selected Characteristics: 2016
(State population 16 years and older. Numbers in thousands)

	POPULATION		TOTAL			AWAY FROM HOME			AROUND THE HOME		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
TOTAL	3,688	100	1,264	34	100	457	12	100	1,186	32	100
RESIDENCE DENSITY											
Urban	2,485	67	852	34	67	296	12	65	795	32	67
Rural	1,203	33	412	34	33	160	13	35	391	32	33
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	3,481	94	1,214	35	96	436	13	95	1,136	33	96
1,000,000 or more	412	11	124	30	10	49	12	11	124	30	10
250,000 to 999,999	2,204	60	799	36	63	295	13	65	762	35	64
50,000 to 249,999	864	23	290	34	23	92	11	20	249	29	21
Outside MSA	207	6	50	24	4	21	10	5	50	24	4
SEX											
Male	1,995	54	747	37	59	246	12	54	680	34	57
Female	1,693	46	517	31	41	211	12	46	506	30	43
AGE											
16 to 17 years	175	5	55	31	4	55	31	12	55	31	5
18 to 24 years	269	7	93	35	7	12	4	3	82	30	7
25 to 34 years	840	23	324	39	26	184	22	40	264	31	22
35 to 44 years	368	10	99	27	8	43	12	9	99	27	8
45 to 54 years	806	22	256	32	20	48	6	11	256	32	22
55 to 64 years	544	15	190	35	15	29	5	6	186	34	16
65 years and older	687	19	247	36	20	86	13	19	243	35	21
65 to 74 years	510	14	185	36	15	86	17	19	182	36	15
75 and older	176	5	61	35	5	—	—	—	61	35	5
ETHNICITY											
Hispanic	302	8	105	35	8	49	16	11	66	22	6
Non-Hispanic	3,386	92	1,159	34	92	408	12	89	1,120	33	94
RACE											
White	2,594	70	947	37	75	369	14	81	908	35	77
African American	879	24	252	29	20	66	8	14	212	24	18
All Others	215	6	65	30	5	22	10	5	65	30	5

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Table 30 South Carolina Resident Wildlife Watchers, by Selected Characteristics: 2016 (continued)
(State population 16 years and older. Numbers in thousands)

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	POPULATION		TOTAL			AWAY FROM HOME			AROUND THE HOME		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
ANNUAL HOUSEHOLD INCOME											
Less than \$20,000	450	12	142	32	11	20	4	4	142	32	12
\$20,000 to \$29,999	239	6	38	16	3	8	3	2	38	16	3
\$30,000 to \$39,999	482	13	157	33	12	17	4	4	157	33	13
\$40,000 to \$49,999	190	5	53	28	4	22	11	5	53	28	4
\$50,000 to \$74,999	427	12	163	38	13	105	25	23	142	33	12
\$75,000 to \$99,999	408	11	132	32	10	25	6	5	130	32	11
\$100,000 to \$149,999	641	17	239	37	19	105	16	23	223	35	19
\$150,000 or more	125	3	44	36	4	21	17	5	44	36	4
Not reported	726	20	295	41	23	135	19	30	256	35	22
EDUCATION											
8 years or less	133	4	60	45	5	53	40	12	60	45	5
9 to 12 years	1,205	33	350	29	28	108	9	24	311	26	26
1 to 3 years of college	998	27	354	35	28	70	7	15	333	33	28
4 years or more of college	1,352	37	500	37	40	226	17	49	482	36	41

— No sample data

NOTE: Detail does not add to total because of multiple responses and nonresponse. Percent population (% Pop.) columns show the percentage of each row's population who participated in the activity named by the column (the percentage of the population living in urban areas who participated, etc.). Columns labeled "% under TOTAL, Away From Home, and Around the Home show the percentage of each column's participants who are described by the row heading (the percentage of those who lived in urban areas, etc.).

Table 33A Expenditures by South Carolina Residents for All Wildlife Watching Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER WILDLIFE WATCHER (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)	PERCENT OF WILDLIFE WATCHERS
ALL EXPENDITURES	3,409,659	2,698	3,822	892	71
TRIP-RELATED EXPENDITURES	819,244	648	2,065	397	31
Food and lodging	518,071	410	1,347	385	30
Food	356,922	282	928	385	30
Lodging	161,149	128	725	222	18
Transportation	110,587	87	331	334	26
Other trip costs ²	190,587	151	691	276	22
EQUIPMENT AND OTHER EXPENDITURES	2,590,414	2,050	3,101	835	66
Wildlife-watching equipment	252,311	200	351	719	57
Binoculars, spotting scopes	27,538	22	175	157	12
Film and photo processing	5,537	4	114	48	4
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	86,085	68	552	156	12
Day packs, carrying cases, and special clothing	39,354	31	171	230	18
Bird food	50,584	40	92	551	44
Food for other wildlife	22,595	18	118	191	15
Nest boxes, bird houses, bird feeders, and bird baths	17,681	14	65	271	21
Other equipment (including field guides)	2,936	2	21	143	11
Auxiliary equipment ³	38,085	30	177	215	17
Special equipment ⁴	1,023,021	809	7,446	137	11
Magazines, books, and DVDs	4,523	4	28	163	13
Membership dues and contributions	14,502	11	95	153	12
Land leasing and ownership	1,224,211	969	8,588	143	11
Plantings	33,762	27	175	193	15

¹ Average expenditures are annual estimates.

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

³ Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

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

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

Table 33B

Expenditures by South Carolina Residents for Away-from-home Wildlife Watching Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER WILDLIFE WATCHER (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)	PERCENT OF WILDLIFE WATCHERS
ALL EXPENDITURES	1,132,063	2,478	2,552	444	97
TRIP-RELATED EXPENDITURES	1,038,265	2,273	2,647	392	86
Food and lodging	660,103	1,445	1,710	386	84
Food	508,761	1,114	1,334	382	84
Lodging	151,342	331	545	278	61
Transportation	108,301	237	354	306	67
Other trip costs ²	269,861	591	924	292	64
EQUIPMENT AND OTHER EXPENDITURES	93,799	205	325	288	63
Wildlife-watching equipment	27,393	60	152	181	40
Binoculars, spotting scopes	3,317	7	37	90	20
Film and photo processing	3,557	8	375	9	2
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	4,195	9	301	14	3
Day packs, carrying cases, and special clothing	12,425	27	391	32	7
Bird food	1,639	4	13	128	28
Food for other wildlife	746	2	121	6	1
Nest boxes, bird houses, bird feeders, and bird baths	105	0	50	2	0
Other equipment (including field guides)	1,408	3	21	66	14
Auxiliary equipment ³	14,424	32	107	135	30
Special equipment ⁴	12,376	27	896	14	3
Magazines, books, and DVDs	132	0	15	9	2
Membership dues and contributions	7,923	17	86	92	20
Land leasing and ownership	31,550	69	728	43	9
Plantings	—	—	—	—	—

— No sample data

¹ Average expenditures are annual estimates.

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

³ Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

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

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

Table 33C

Expenditures by South Carolina Residents for Around-the-home Wildlife Watching Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER WILDLIFE WATCHER (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)	PERCENT OF WILDLIFE WATCHERS
ALL EXPENDITURES	1,577,832	1,331	2,392	660	56
TRIP-RELATED EXPENDITURES	x	x	x	x	x
Food and lodging	x	x	x	x	x
Food	x	x	x	x	x
Lodging	x	x	x	x	x
Transportation	x	x	x	x	x
Other trip costs ²	x	x	x	x	x
EQUIPMENT AND OTHER EXPENDITURES	1,577,832	1,331	2,392	660	56
Wildlife-watching equipment	142,644	120	258	553	47
Binoculars, spotting scopes	8,283	7	174	48	4
Film and photo processing	302	0	25	12	1
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	59,646	50	732	82	7
Day packs, carrying cases, and special clothing	7,011	6	104	68	6
Bird food	39,431	33	81	486	41
Food for other wildlife	14,750	12	103	143	12
Nest boxes, bird houses, bird feeders, and bird baths	13,037	11	70	185	16
Other equipment (including field guides)	183	0	14	13	1
Auxiliary equipment ³	6,698	6	345	19	2
Special equipment ⁴	1,258,783	1,062	16,018	79	7
Magazines, books, and DVDs	2,424	2	20	124	10
Membership dues and contributions	4,765	4	48	100	8
Land leasing and ownership	123,225	104	2,654	46	4
Plantings	39,291	33	180	219	18

— No sample data x Not applicable

¹ Average expenditures are annual estimates.

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

³ Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

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

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

Table 35 South Carolina Resident Wildlife Watchers Participating in Fishing or Hunting: 2016
(State population 16 years and older. Numbers in thousands)

	TOTAL		AWAY FROM HOME		AROUND THE HOME	
	#	%	#	%	#	%
ALL WILDLIFE WATCHERS	1,264	100	457	100	1,186	100
Did not fish or hunt	788	62	253	55	724	61
Fished or hunted	476	38	204	45	462	39
Fished	424	34	183	40	421	35
Hunted	172	14	114	25	160	14

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

Table 36 South Carolina Resident Sportspersons Participating in Wildlife Watching: 2016
(State population 16 years and older. Numbers in thousands)

	SPORTSPERSONS		ANGLERS		HUNTERS	
	#	%	#	%	#	%
ALL SPORTSPERSONS	647	100	558	100	242	100
Did not watch wildlife	168	26	137	25	54	22
Watched wildlife	479	74	421	75	188	78
Away from home	253	39	229	41	120	49
Around the home	452	70	400	72	173	71

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

APPENDIX B: STANDARD ERRORS

The tables in Appendix B depict the standard errors, subject to rounding error, corresponding to the calibrated point estimates reported in the tables in Appendix A. Summary statistics reported in these calibrated tables are described below, by table.

Table 5

Fishing and hunting, participation, days, and trips

- Standard errors of total fishing participation and total hunting participation: product-type statistics derived using model point estimates and standard errors of percent participation in the population and survey point estimates and standard errors of total population based on adjusted 50-State Survey of FHWAR weights.
- Standard errors of total freshwater, freshwater except Great Lakes, Great Lakes, and saltwater fishing participation, total big game, small game, migratory birds, and other animals hunting participation: product-type statistics derived using point estimates and standard errors of total fishing participation, point estimates and standard errors of total hunting participation, point estimates and standard errors of percent participation of freshwater, freshwater except Great Lakes, Great Lakes, and saltwater fishing in all fishing, and point estimates and standard errors of percent participation of big game, small game, migratory birds, and other animals hunting in all hunting (columns denoted by %).
- Standard errors of total fishing (all and subcategories) days/trips of participation and total hunting (all and subcategories) days/trips of participation: product-type statistics derived using point estimates and standard errors of total number of fishing (all and subcategories) participants, point estimates and standard errors of total number of hunting (all and subcategories) participants, and point estimates and standard errors of days/trips per participant (not displayed).

- Standard errors of percent participation (columns denoted by %): statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the fishing or hunting survey for the fishing and hunting sections, respectively.

Table 15

Fishing and hunting, demographics

- Standard errors of total population (all and subcategories): composite statistics constructed using 2-way composite factors to adjusted 50-State Survey of FHWAR final and replicate weights, using data from both the fishing and the hunting surveys.
- Standard errors of total number of anglers and total number of hunters: product-type statistics derived using model point estimates and standard errors for percent participation in the population (columns denoted by % Pop.) and survey point estimates and standard errors of total population based on adjusted 50-State Survey of FHWAR final and replicate weights.
- Standard errors of total number of sportspersons: ratio-type statistics derived using point estimates and standard errors of total number of anglers and point estimates and standard errors of percent anglers in sportspersons (not displayed).
- Standard errors of total population, sportspersons, anglers, hunters, by demographics: product-type statistics, derived using point estimates and standard errors of total population, sportspersons, anglers, hunters participation, and point estimates and standard errors of percent demographic-specific participation in total participation (columns denoted by %).

- Standard errors of percent demographic-specific population, sportspersons, anglers, hunters participation in total participation (columns denoted by %): composite statistics constructed using 2-way composite factors to adjusted 50-State Survey of FHWAR final and replicate weights, using data from the fishing and hunting surveys.
- Standard errors of percent demographic-specific anglers and hunters participation in the total demographic-specific population (columns denoted by % Pop.): ratio-type statistics, derived using point estimates and standard errors of total demographic-specific anglers and hunters participation and total demographic-specific population.
- Standard errors of percent total and demographic-specific sportspersons participation in the total and demographic-specific population (column denoted by % Pop.): ratio-type statistics, derived using point estimates and standard errors of total population and sportspersons participation.

Table 22

Fishing and hunting, spenders and expenses

- Standard errors of total fishing and hunting expenditure (all and subcategories) amount, total fishing expenditure (all and subcategories) amount, total hunting expenditure (all and subcategories) amount, and total unspecified expenditure amount: product-type statistics derived using point estimates and standard errors of expenditure amount per participant (columns denoted by Average Per Sportsperson), and point estimates and standard errors of total sportspersons participation (all and subcategories), point estimates and standard errors of total anglers participation (all and subcategories), point estimates and standard errors of total hunters participation (all and subcategories) and point estimates and standard errors of total sportspersons participation, respectively.
- Standard errors of expenditure amount per participant (columns denoted by Average Per Sportsperson) and expenditure amount per spender (columns denoted by Average Per Spender):
 - > Fishing section: statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the fishing survey only.

- > Hunting section: statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the hunting survey only.
- > Fishing and hunting, and unspecified sections: except for some expenses and spenders noted in the table footnotes, these are composite statistics constructed using 2-way composite factors to adjusted 50-State Survey of FHWAR final and replicate weights, using data from the fishing and hunting surveys.
- Standard errors of total fishing and hunting (all and subcategories) number of spenders, total fishing (all and subcategories) number of spenders, total hunting (all and subcategories) number of spenders, and total unspecified number of spenders: product-type statistics derived using the point estimates and standard errors of percent spenders in total participation (not displayed), and point estimates and standard errors of total sportspersons participation (all and subcategories), point estimates and standard errors of total anglers participation (all and subcategories), point estimates and standard errors of total hunters participation (all and subcategories) and point estimates and standard errors of total sportspersons participation, respectively.

Table 28

Wildlife watching, participation, days, and trips

- Standard errors of total wildlife watching participation: product-type statistics derived using model point estimates and standard errors of percent participation in the population, and survey point estimates and standard errors of total population based on adjusted 50-State Survey of FHWAR final and replicate weights.
- Standard errors of total away from home (all and subcategories) and around the home (all and subcategories) wildlife watching participation: product-type statistics derived using point estimates and standard errors of total wildlife watching participation, point estimates and standard errors of percent participation of away from home (all and subcategories) and point estimates and standard errors of around the home (all and subcategories) wildlife watching in all wildlife watching (columns denoted by %).

- Standard errors of total wildlife watching (all and sub-categories) days/trips of participation: product-type statistics derived using point estimates and standard errors of total number of wildlife watching (all and subcategories) participants and point estimates and standard errors of days/trips per participant (not displayed).
- Standard errors of percent participation (columns denoted by %): statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the wildlife watching survey.
- Standard errors of percent participation in the total population (column denoted by % Pop.): ratio-type statistics, derived using point estimates and standard errors of total population from Table 30 and point estimates and standard errors of wildlife watching participation.

Table 30

Wildlife watching, demographics

- Standard errors of total population (all and subcategories): composite statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the wildlife watching survey. Note that the standard errors of total population estimates in Tables 15 and 30 differ due to demographic harmonization without state targets estimated from the National Survey of FHWAR (information not available); see Rockville Institute (2020) for more details about the demographic harmonization.
- Standard errors of total number of wildlife watchers: product-type statistics derived using model point estimates and standard errors of percent participation in the population (columns denoted by % Pop.) and survey standard error of total population based on adjusted 50-State Survey of FHWAR final and replicate weights.
- Standard errors of total number of away from home or around the home wildlife watchers: product-type statistics derived using point estimates and standard errors of total number of wildlife watchers and point estimates and standard errors of percent away from home or around the home wildlife watchers in all wildlife watchers (columns denoted by % Pop. in Table 35).

- Standard errors of total population, wildlife watchers, away from home, around the home, by demographics: product-type statistics, derived using point estimates and standard errors of total population, wildlife watchers, away from home, around the home participation and point estimates and standard errors of percent demographic-specific participation in total participation (columns denoted by %).
- Standard errors of percent demographic-specific population, wildlife watchers, away from home, around the home participation in total participation (columns denoted by %): composite statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the wildlife watching survey.
- Standard errors of percent demographic-specific wildlife watchers in the total demographic-specific population (column denoted by % Pop.): ratio-type statistics, derived using point estimates and standard errors of total demographic-specific wildlife watchers participation and point estimates and standard errors of total demographic-specific population.
- Standard errors of percent total and demographic-specific away from home and around the home participation in the total and demographic-specific population (columns denoted by % Pop.): ratio-type statistics, derived using point estimates and standard errors of total population and away from home and around the home participation, respectively.

Table 33

Wildlife watching, spenders and expenditures — three versions for all wildlife watchers, away from home wildlife watchers, and around the home wildlife watchers

- Standard errors of total wildlife watching expenditure (all and subcategories) amount: product-type statistics derived using point estimates and standard errors of total number of wildlife watching (all and subcategories) participants and point estimates and standard errors of expenditure amount per participant (columns denoted by Average Per Wildlife Watcher).

- Standard errors or expenditure amount per participant (columns denoted by Average Per Wildlife Watcher) and expenditure amount per spender (columns denoted by Average Per Spender): statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the wildlife watching survey only.
- Standard errors of total wildlife watching (all and subcategories) number of spenders: product-type statistics derived using point estimates and standard errors of total number of wildlife watching (all and subcategories) participants and point estimates and standard errors of the percent spenders in total participation (columns denoted by Percent of Wildlife Watchers).
- Standard errors of percent spenders in total participation (columns denoted by Percent of Wildlife Watchers): statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the wildlife watching survey only.

Table 35

Wildlife watchers participating in fishing and hunting

- Standard errors of total number of wildlife watchers: product-type statistics derived using model point estimates and standard errors of percent participation in the population (columns denoted by % Pop. in Table 30) and survey point estimates and standard errors of total population based on adjusted 50-State Survey of FHWAR final and replicate weights (displayed in Table 30).
- Standard errors of total number of away from home or around the home wildlife watchers: product-type statistics derived using point estimates and standard errors of total number of wildlife watchers and point estimates and standard errors of percent away from home or around the home wildlife watchers in all wildlife watchers (columns not displayed).
- Standard errors of total number of wildlife watchers, away from home, around the home who did not fish

or hunt, fished or hunted, fished, hunted: product-type statistics, derived using point estimates and standard errors of total number of wildlife watchers and point estimates and standard errors of percent sportsperson-specific category in the corresponding total participation (columns denoted by %).

- Standard errors or percent sportsperson-specific category in the corresponding total participation (columns denoted by %): statistics constructed using full adjusted 50-State Survey of FHWAR final and replicate weights, using data from the wildlife watching survey.

Table 36

Sportspersons participating in wildlife watching

- Standard errors of total number of sportspersons: ratio-type statistics derived using point estimates and standard errors of total number of anglers and point estimates and standard errors of percent anglers in sportspersons (not displayed).
- Standard errors of total number of anglers or total number of hunters: product-type statistics derived using model point estimates and standard errors of percent participation in the population (columns denoted by % Pop. in Table 15) and survey point estimates and standard errors of total population based on adjusted 50-State Survey of FHWAR weights (displayed in Table 15).
- Standard errors of total number of sportspersons, anglers, or hunters who did not wildlife watch, wildlife watch, wildlife watch away from home, wildlife watch around the home: product-type statistics, derived using point estimates and standard errors of total number of sportspersons, anglers, or hunters and point estimates and standard errors of percent wildlife watcher-specific category in the corresponding total participation (columns denoted by %).
- Standard errors of percent wildlife watcher-specific category in the corresponding total participation (columns denoted by %): composite statistics constructed using 3-way composite factors to adjusted 50-State Survey of FHWAR final and replicate weights, using data from the fishing, hunting, and wildlife watching surveys.

Table 5 SE Standard Errors of South Carolina Resident Anglers and Hunters, Days of Participation and Trips in the United States, by Type of Fishing and Hunting: 2016
(Population 16 years and older. Numbers in thousands)

	PARTICIPANTS		DAYS OF PARTICIPATION		TRIPS	
	#	%	#	%	#	%
ALL FISHING	93.16	0.00	2,736.05	0.00	1,942.77	0.00
All freshwater	79.30	5.57	2,446.03	7.56	1,629.20	9.89
Freshwater, except Great Lakes	79.30	5.57	2,445.80	7.56	1,629.09	9.89
Great Lakes	0.97	0.17	1.94	0.02	0.97	0.01
Saltwater	53.37	6.53	980.78	7.56	926.77	9.89
ALL HUNTING	53.49	0.00	2,521.17	0.00	2,413.28	0.00
Big game	48.20	4.83	2,077.82	5.79	1,245.82	6.35
Small game	35.91	11.48	1,010.47	9.49	989.58	11.98
Migratory birds	23.71	8.01	270.17	3.89	228.20	4.65
Other animals	21.95	8.10	881.44	9.81	694.33	8.71

Table 15 SE Standard Errors of South Carolina Resident Anglers and Hunters, by Selected Characteristics: 2016
(State population 16 years and older. Numbers in thousands)

	POPULATION		SPORTSPERSONS			ANGLERS			HUNTERS		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
TOTAL	174.29	0.00	110.11	2.87	0.00	93.16	2.27	0.00	53.49	1.33	0.00
RESIDENCE DENSITY											
Urban	181.93	4.09	70.93	2.85	6.38	62.75	2.52	6.69	32.80	1.29	8.67
Rural	180.97	4.09	66.05	5.87	6.38	56.09	4.95	6.69	34.58	2.90	8.67
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	166.11	1.65	103.29	2.89	2.06	88.52	2.48	1.52	49.03	1.35	4.60
1,000,000 or more	86.46	2.15	8.03	3.13	1.17	5.23	1.91	0.92	5.93	2.15	2.36
250,000 to 999,999	160.55	3.45	85.20	3.46	3.66	75.51	3.07	3.83	40.00	1.58	6.40
50,000 to 249,999	134.70	3.22	27.28	4.16	3.28	23.76	3.56	3.46	14.68	2.07	4.99
Outside MSA	67.50	1.65	15.20	7.28	2.06	9.74	4.74	1.52	12.26	5.30	4.60
SEX											
Male	119.25	2.12	72.42	4.22	4.76	61.68	3.59	5.14	40.33	2.30	5.69
Female	122.26	2.12	53.76	2.61	4.76	47.62	2.31	5.14	20.48	0.98	5.69
AGE											
16 to 17 years	76.88	1.94	12.92	12.45	1.97	7.76	6.69	1.39	11.98	11.63	4.83
18 to 24 years	71.29	1.78	23.18	11.46	3.34	22.92	11.37	3.84	13.83	6.36	5.40
25 to 34 years	124.40	2.99	38.65	6.02	5.33	37.27	5.74	6.09	16.04	2.47	5.55
35 to 44 years	129.49	3.15	37.11	6.90	4.36	32.41	5.87	4.71	20.69	3.57	6.51
45 to 54 years	95.90	2.31	33.28	7.00	4.15	31.33	6.54	4.64	13.04	2.62	4.21
55 to 64 years	91.91	2.17	20.49	3.29	2.44	17.77	2.82	2.59	8.84	1.34	3.06
65 years and older	81.62	2.19	30.77	3.48	3.46	27.97	3.15	3.82	12.87	1.41	4.33
65 to 74 years	63.30	1.72	23.17	4.01	2.69	20.35	3.50	2.88	12.17	2.02	4.26
75 and older	65.62	1.66	14.50	5.12	2.08	14.28	5.04	2.38	2.29	0.78	0.88
ETHNICITY											
Hispanic	79.49	1.98	31.16	14.38	4.68	30.76	14.08	5.38	8.48	3.66	3.47
Non-Hispanic	175.43	1.98	105.35	2.94	4.68	89.69	2.50	5.38	51.96	1.43	3.47
RACE											
White	144.08	3.57	93.01	3.66	3.75	78.47	3.09	4.34	45.90	1.77	5.51
African American	162.63	3.45	23.43	2.55	2.98	23.05	2.49	3.49	11.40	1.15	4.28
All Others	66.29	1.69	15.12	7.02	2.14	14.65	6.62	2.46	9.83	4.27	3.76

(continued on next page)

Table 15 SE Standard Errors of South Carolina Resident Anglers and Hunters, by Selected Characteristics: 2016 (continued)
(State population 16 years and older. Numbers in thousands)

(continued from previous page)

	POPULATION		SPORTSPERSONS			ANGLERS			HUNTERS		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
ANNUAL HOUSEHOLD INCOME											
Less than \$20,000	109.66	2.70	21.08	4.59	2.75	19.38	4.12	3.05	13.29	2.68	4.81
\$20,000 to \$29,999	57.38	1.47	12.30	5.59	1.79	11.36	5.05	1.96	4.43	1.95	1.72
\$30,000 to \$39,999	106.15	2.66	16.95	6.09	2.36	15.82	5.59	2.59	8.08	2.64	3.06
\$40,000 to \$49,999	61.62	1.58	27.04	11.28	3.69	25.52	10.33	4.18	15.29	6.13	5.42
\$50,000 to \$74,999	69.67	1.82	25.94	7.51	3.42	24.53	7.02	3.84	16.66	4.60	5.86
\$75,000 to \$99,999	98.94	2.53	21.53	5.93	2.78	19.66	5.25	3.08	14.03	3.59	4.86
\$100,000 to \$149,999	79.89	2.10	30.13	8.84	4.13	29.56	8.68	4.72	9.05	2.43	3.56
\$150,000 or more	79.93	2.04	22.27	7.42	3.17	21.23	6.97	3.56	15.66	4.77	6.30
Not reported	174.71	3.72	47.13	5.69	6.49	43.36	5.07	7.24	16.38	1.87	6.22
EDUCATION											
8 years or less	61.88	1.53	6.32	3.44	0.94	6.15	3.25	1.08	2.82	1.49	1.13
9 to 12 years	163.88	3.39	46.78	4.13	4.87	40.05	3.51	5.08	24.97	2.11	6.66
1 to 3 years of college	126.48	2.98	36.27	3.55	3.88	31.49	3.08	4.03	19.49	1.83	5.70
4 years or more of college	119.45	3.29	57.29	4.74	5.21	51.24	4.23	5.69	24.42	1.94	6.45

NOTE: Percent population (% Pop.) columns show the percentage of each row's population who participated in the activity named by the column (the percentage of the population living in urban areas who fished, etc.). Columns labeled "% Pop." under Sportspeople, Anglers, and Hunters show the percentage of each column's participants who are described by the row heading (the percentage of anglers who lived in urban areas, etc.).

Table 22 SE Standard Errors of Expenditures by South Carolina Residents for Fishing and Hunting
Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER SPORTSPERSON (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)
FISHING AND HUNTING	718,001.93	952.06	931.65	120.98
Food and lodging	59,589.97	74.32	89.87	100.38
Transportation	52,373.86	70.68	106.38	83.32
Other trip costs ²	109,446.72	149.37	194.21	96.56
Equipment (fishing, hunting)	143,566.51	185.32	241.30	88.17
Auxiliary equipment ³	57,841.89	84.94	320.87	39.33
Special equipment ⁴	202,748.21	295.74	2,566.34	28.55
Magazines, books, and DVDs	1,994.29	2.84	17.07	27.72
Membership dues/contributions	11,164.71	16.89	147.01	25.95
Other ⁵	451,449.96	694.85	1,203.22	78.01
FISHING	241,835.84	367.37	379.08	90.98
Food and lodging	25,626.48	34.79	42.05	80.67
Transportation	22,863.43	36.19	54.93	68.91
Other trip costs ²	104,605.15	170.65	199.75	82.91
Fishing equipment	38,078.71	55.48	77.49	69.51
Auxiliary equipment ³	5,498.77	9.37	63.52	21.82
Special equipment ⁴	163,019.69	291.27	7,749.88	17.52
Magazines, books, and DVDs	549.53	0.97	34.13	10.52
Membership dues/contributions	1,204.15	2.07	32.50	20.34
Other ⁵	7,575.71	12.61	26.49	57.15
HUNTING	447,499.36	1,583.67	1,583.67	53.49
Food and lodging	37,587.86	128.86	157.23	43.99
Transportation	34,654.98	126.42	188.32	38.53
Other trip costs ²	24,851.20	93.10	264.06	29.65
Hunting equipment	101,781.84	335.56	379.00	46.98
Auxiliary equipment ³	42,917.83	165.96	317.84	32.21
Special equipment ⁴	53,971.78	215.28	2,702.02	13.58
Magazines, books, and DVDs	1,528.17	5.95	17.76	16.52
Membership dues/contributions	9,085.53	36.79	157.31	23.00
Other ⁵	376,976.04	1,548.25	1,557.84	53.16
UNSPECIFIED⁶	105,517.95	157.64	1,538.71	20.85

1 Average expenditures are annual estimates.

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

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

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

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

6 Respondent could not specify whether expenditure was primarily for either fishing or hunting.

Table 28 SE Standard Errors of South Carolina Resident Wildlife Watchers Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	PARTICIPANTS			DAYS OF PARTICIPATION		TRIPS	
	#	%	% Pop.	#	%	#	%
WILDLIFE WATCHERS	128.24	0.00	2.98	14,903.61	0.00	4,086.07	0.00
Away from home	90.99	6.23	2.55	4,030.53	4.56	4,033.45	0.00
Observe wildlife	90.13	6.23	2.52	1,844.58	2.09	x	x
Photograph wildlife	77.26	5.78	2.13	1,746.12	2.29	x	x
Feed wildlife	69.90	5.31	1.92	1,474.42	1.41	x	x
Around the home	129.62	3.84	3.90	13,083.57	4.56	x	x
Observe wildlife	114.84	6.75	3.30	10,219.60	5.69	x	x
Photograph wildlife	81.39	5.61	2.28	2,067.57	2.17	x	x
Feed wildlife	120.76	7.31	3.45	x	x	x	x
Visit parks or natural areas ¹	75.13	5.48	2.08	4,807.26	6.13	x	x
Maintain plantings or natural areas	83.75	6.18	2.31	x	x	x	x

x Not applicable

¹ Includes visits only to parks or natural areas within one mile of home.

NOTE: Percent population (% Pop.) columns show the percentage of each row's population who participated in the activity named by the column (the percentage of the population who observed wildlife away from home, etc.). Columns labeled "%" show the percentage of each column's participants who are described by the row heading (the percentage of wildlife watchers who observed wildlife away from home, etc.).

Table 30 SE Standard Errors of South Carolina Resident Wildlife Watchers, by Selected Characteristics: 2016
(State population 16 years and older. Numbers in thousands)

	POPULATION		TOTAL			AWAY FROM HOME			AROUND THE HOME		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
TOTAL	193.32	0.00	128.24	2.98	0.00	90.99	2.55	0.00	129.62	3.90	0.00
RESIDENCE DENSITY											
Urban	212.73	5.40	116.82	5.54	6.25	76.64	3.25	10.92	115.77	5.40	6.49
Rural	220.39	5.40	88.98	9.70	6.25	58.40	5.44	10.92	87.59	9.40	6.49
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	199.76	1.71	124.48	4.10	1.44	87.61	2.62	2.61	125.44	4.06	1.53
1,000,000 or more	151.81	4.06	60.16	18.33	4.68	46.99	12.19	10.27	60.04	18.31	4.96
250,000 to 999,999	201.20	5.61	116.34	6.23	6.63	79.95	3.83	12.11	114.66	6.08	6.68
50,000 to 249,999	197.62	4.80	75.49	11.62	5.53	45.07	5.76	9.19	68.28	10.29	5.31
Outside MSA	62.95	1.71	18.78	11.67	1.44	12.41	6.72	2.61	18.82	11.69	1.53
SEX											
Male	210.69	4.09	97.82	6.30	4.92	67.58	3.63	10.40	95.05	5.97	5.03
Female	146.03	4.09	81.13	5.47	4.92	62.70	3.86	10.40	81.01	5.43	5.03
AGE											
16 to 17 years	117.44	3.16	47.98	34.50	3.79	47.80	34.42	10.40	47.87	34.45	4.03
18 to 24 years	127.69	3.37	52.24	25.45	4.09	12.32	5.01	2.70	51.02	23.82	4.26
25 to 34 years	155.50	4.14	72.49	11.21	5.14	61.14	8.34	10.92	70.89	10.25	5.49
35 to 44 years	130.99	3.58	38.55	14.23	2.96	26.67	8.38	5.64	38.65	14.25	3.15
45 to 54 years	162.34	4.09	63.78	10.18	4.63	20.19	2.78	3.97	65.17	10.32	4.99
55 to 64 years	94.69	2.56	40.92	9.67	2.87	11.94	2.38	2.34	40.23	9.50	2.94
65 years and older	98.21	2.79	48.23	8.70	3.28	29.56	4.66	5.38	49.33	8.79	3.52
65 to 74 years	89.82	2.54	41.79	10.38	2.97	29.56	6.51	5.38	42.35	10.40	3.17
75 and older	49.30	1.33	20.73	15.27	1.57	—	—	—	20.97	15.37	1.69
ETHNICITY											
Hispanic	145.77	3.86	57.29	25.40	4.48	43.08	16.28	9.38	42.56	17.64	3.56
Non-Hispanic	203.14	3.86	130.35	4.36	4.48	91.49	2.80	9.38	129.38	4.30	3.56
RACE											
White	199.06	5.21	122.09	5.48	5.99	84.64	3.44	9.36	121.03	5.38	5.88
African American	201.22	4.92	73.69	10.64	5.50	43.65	5.26	9.30	66.33	9.36	5.27
All Others	93.52	2.53	28.09	18.52	2.17	13.88	7.77	2.95	28.35	18.61	2.33

(continued on next page)

Table 30 SE Standard Errors of South Carolina Resident Wildlife Watchers, by Selected Characteristics: 2016 (continued)
(State population 16 years and older. Numbers in thousands)

(continued from previous page)

	POPULATION		TOTAL			AWAY FROM HOME			AROUND THE HOME		
	Total	%	Total	% Pop.	%	Total	% Pop.	%	Total	% Pop.	%
ANNUAL HOUSEHOLD INCOME											
Less than \$20,000	128.82	3.49	52.37	14.71	4.00	13.12	3.18	2.79	52.44	14.73	4.25
\$20,000 to \$29,999	101.33	2.76	22.27	11.58	1.74	5.24	2.57	1.12	22.29	11.58	1.86
\$30,000 to \$39,999	158.35	4.17	60.67	16.55	4.66	11.38	2.63	2.42	60.57	16.53	4.93
\$40,000 to \$49,999	58.47	1.60	18.66	13.09	1.42	12.59	7.51	2.64	18.97	13.21	1.53
\$50,000 to \$74,999	108.63	3.03	49.53	15.10	3.71	46.15	12.47	9.19	43.80	13.27	3.48
\$75,000 to \$99,999	102.99	2.92	38.69	12.49	2.89	16.28	4.27	3.47	37.90	12.26	2.98
\$100,000 to \$149,999	177.47	4.85	79.60	16.15	6.03	56.08	9.86	11.62	77.61	15.47	6.25
\$150,000 or more	44.76	1.23	17.79	19.19	1.37	13.21	12.25	2.80	18.62	19.69	1.52
Not reported	225.06	5.55	90.48	17.71	6.79	62.73	10.38	12.66	80.50	15.56	6.40
EDUCATION											
8 years or less	106.98	2.89	47.59	50.61	3.75	47.32	47.76	10.30	47.53	50.59	4.00
9 to 12 years	179.47	4.58	70.77	7.29	4.87	49.78	4.34	10.02	64.25	6.57	4.62
1 to 3 years of college	192.75	5.26	91.59	11.45	6.70	33.03	3.58	6.69	89.14	11.01	6.91
4 years or more of college	212.20	5.30	89.63	8.82	5.87	69.16	5.75	11.74	89.14	8.65	6.10

— No sample data

NOTE: Percent population (% Pop.) columns show the percentage of each row's population who participated in the activity named by the column (the percentage of the population living in urban areas who participated, etc.). Columns labeled "% under TOTAL, Away From Home, and Around the Home show the percentage of each column's participants who are described by the row heading (the percentage of those who lived in urban areas, etc.).

Table 33A SE Standard Errors of Expenditures by South Carolina Residents for All Wildlife Watching
Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER WILDLIFE WATCHER (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)	PERCENT OF WILDLIFE WATCHERS
ALL EXPENDITURES	1,249,283.85	954.73	1,338.59	119.10	6.16
TRIP-RELATED EXPENDITURES	425,431.33	331.84	954.18	90.32	6.43
Food and lodging	264,570.27	206.23	603.94	90.29	6.48
Food	256,095.58	201.63	646.77	90.29	6.48
Lodging	62,311.68	47.82	144.51	69.72	5.25
Transportation	37,367.14	28.35	93.69	87.91	6.45
Other trip costs ²	151,344.16	119.38	544.95	87.71	6.61
EQUIPMENT AND OTHER EXPENDITURES	1,177,061.54	912.51	1,367.21	117.00	6.41
Wildlife-watching equipment	71,362.77	52.98	87.05	114.13	6.98
Binoculars, spotting scopes	13,125.98	10.20	85.43	62.85	4.84
Film and photo processing	3,116.83	2.44	44.80	19.43	1.50
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	46,117.48	36.01	205.98	51.82	3.92
Day packs, carrying cases, and special clothing	13,213.12	10.02	54.22	71.23	5.35
Bird food	9,255.18	6.13	13.02	98.45	6.44
Food for other wildlife	7,851.78	5.97	36.74	47.02	3.41
Nest boxes, bird houses, bird feeders, and bird baths	4,239.05	3.05	13.37	70.36	5.15
Other equipment (including field guides)	1,312.47	1.02	6.39	64.19	4.97
Auxiliary equipment ³	11,275.73	8.42	36.32	71.47	5.41
Special equipment ⁴	539,943.45	421.42	4,442.56	58.28	4.50
Magazines, books, and DVDs	1,437.80	1.08	8.27	57.27	4.36
Membership dues and contributions	4,625.39	3.49	13.67	43.70	3.25
Land leasing and ownership	1,022,749.54	807.40	6,099.79	59.75	4.61
Plantings	15,104.72	11.70	43.88	75.38	5.79

¹ Average expenditures are annual estimates.

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

³ Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

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

Table 33B SE Standard Errors of Expenditures by South Carolina Residents for Away-from-home Wildlife Watching
Both In and Out of South Carolina: 2016

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

	AMOUNT (thousands of \$)	AVERAGE PER WILDLIFE WATCHER (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)	PERCENT OF WILDLIFE WATCHERS
ALL EXPENDITURES	644,225.30	1,348.01	1,385.60	88.78	1.99
TRIP-RELATED EXPENDITURES	622,480.04	1,311.48	1,524.41	89.06	9.56
Food and lodging	381,988.25	801.13	942.01	88.45	9.77
Food	397,743.42	859.13	1,039.10	87.94	9.89
Lodging	64,230.41	126.69	168.78	101.54	19.02
Transportation	41,970.07	80.42	110.91	102.15	18.31
Other trip costs ²	241,050.73	524.89	869.40	78.39	11.74
EQUIPMENT AND OTHER EXPENDITURES	32,435.06	59.23	136.49	87.48	14.74
Wildlife-watching equipment	12,940.30	26.21	107.92	81.56	16.35
Binoculars, spotting scopes	2,859.01	6.21	38.18	85.52	18.68
Film and photo processing	3,780.81	8.30	0.00	10.08	2.21
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	3,554.63	7.72	56.37	11.40	2.47
Day packs, carrying cases, and special clothing	11,854.05	25.90	379.82	22.80	4.89
Bird food	1,089.06	2.32	1.36	88.24	18.87
Food for other wildlife	779.98	1.71	109.93	5.55	1.21
Nest boxes, bird houses, bird feeders, and bird baths	113.16	0.25	0.00	2.26	0.50
Other equipment (including field guides)	1,041.95	2.24	3.83	50.83	10.97
Auxiliary equipment ³	8,355.82	17.53	71.01	86.44	18.35
Special equipment ⁴	10,054.13	21.77	808.48	11.23	2.43
Magazines, books, and DVDs	139.77	0.31	0.00	9.32	2.04
Membership dues and contributions	4,666.01	9.81	22.46	59.43	12.62
Land leasing and ownership	20,591.46	43.80	349.84	26.96	5.70
Plantings	—	—	—	—	—

— No sample data

¹ Average expenditures are annual estimates.

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

³ Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

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

Table 33C SE Standard Errors of Expenditures by South Carolina Residents for Around-the-home Wildlife Watching
Both In and Out of South Carolina: 2016
(State population 16 years and older. Numbers in thousands)

	AMOUNT (thousands of \$)	AVERAGE PER WILDLIFE WATCHER (\$) ¹	AVERAGE PER SPENDER (\$) ¹	NUMBER OF SPENDERS (thousands)	PERCENT OF WILDLIFE WATCHERS
ALL EXPENDITURES	814,597.31	675.49	1,190.65	120.37	8.18
TRIP-RELATED EXPENDITURES	x	x	x	x	x
Food and lodging	x	x	x	x	x
Food	x	x	x	x	x
Lodging	x	x	x	x	x
Transportation	x	x	x	x	x
Other trip costs ²	x	x	x	x	x
EQUIPMENT AND OTHER EXPENDITURES	814,597.31	675.49	1,190.65	120.37	8.18
Wildlife-watching equipment	59,558.79	48.77	96.10	114.99	8.30
Binoculars, spotting scopes	4,079.04	3.37	56.11	20.31	1.67
Film and photo processing	236.86	0.20	16.01	7.59	0.63
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	52,986.65	44.62	442.10	54.48	4.56
Day packs, carrying cases, and special clothing	3,010.20	2.47	49.53	30.38	2.50
Bird food	8,574.95	6.29	13.60	109.86	8.16
Food for other wildlife	6,786.18	5.59	45.15	46.65	3.73
Nest boxes, bird houses, bird feeders, and bird baths	4,275.18	3.42	18.98	61.00	4.88
Other equipment (including field guides)	141.78	0.12	9.26	8.86	0.74
Auxiliary equipment ³	4,897.50	4.11	221.28	9.66	0.80
Special equipment ⁴	730,620.82	608.82	7,622.65	47.43	3.96
Magazines, books, and DVDs	1,232.27	1.02	14.00	65.22	5.41
Membership dues and contributions	1,872.11	1.53	14.16	46.25	3.81
Land leasing and ownership	118,942.60	100.27	2,831.91	30.50	2.55
Plantings	19,812.75	16.41	53.34	96.80	7.96

— No sample data x Not applicable

¹ Average expenditures are annual estimates.

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

³ Includes tents, tarps, frame packs and other backpacking equipment, other camping equipment, and other auxiliary equipment.

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

Table 35 SE Standard Errors of South Carolina Resident Wildlife Watchers Participating in Fishing or Hunting: 2016
(State population 16 years and older. Numbers in thousands)

	TOTAL		AWAY FROM HOME		AROUND THE HOME	
	#	%	#	%	#	%
ALL WILDLIFE WATCHERS	128.24	0.00	90.99	0.00	129.62	0.00
Did not fish or hunt	112.06	6.25	70.06	10.88	111.66	6.68
Fished or hunted	92.22	6.25	63.41	10.88	93.53	6.68
Fished	91.28	6.40	61.00	10.94	92.90	6.85
Hunted	56.82	4.30	51.47	10.32	56.62	4.57

Table 36 SE Standard Errors of South Carolina Resident Sportspersons Participating in Wildlife Watching: 2016
(State population 16 years and older. Numbers in thousands)

	SPORTSPERSONS		ANGLERS		HUNTERS	
	#	%	#	%	#	%
ALL SPORTSPERSONS	110.11	0.00	93.16	0.00	53.49	0.00
Did not watch wildlife	39.23	4.20	33.84	4.53	19.06	6.31
Watched wildlife	85.77	4.20	74.53	4.53	44.21	6.31
Away from home	55.23	5.43	49.61	5.75	33.82	8.93
Around the home	81.89	4.40	71.68	4.72	41.70	7.13

