

LOUISIANA



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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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 Louisiana 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	758	100	23,994	100	12,209	100
All freshwater	576	76	19,856	83	10,075	83
Freshwater, except Great Lakes	576	76	19,852	83	10,071	82
Great Lakes	4	1	4	0	4	0
Saltwater	356	47	4,138	17	2,134	17
ALL HUNTING	250	100	7,275	100	5,983	100
Big game	213	85	4,741	65	3,227	54
Small game	114	46	2,211	30	1,206	20
Migratory birds	89	35	1,694	23	1,283	21
Other animals	44	18	324	4	267	4

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

Table 15 Louisiana 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	3,931	100	846	22	100	758	19	100	250	6	100
RESIDENCE DENSITY											
Urban	2,883	73	506	18	60	475	16	63	110	4	44
Rural	1,049	27	340	32	40	282	27	37	141	13	56
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	3,439	87	675	20	80	602	18	80	177	5	71
1,000,000 or more	1,094	28	268	24	32	255	23	34	46	4	19
250,000 to 999,999	1,603	41	303	19	36	260	16	34	100	6	40
50,000 to 249,999	743	19	105	14	12	88	12	12	30	4	12
Outside MSA	492	13	171	35	20	155	32	20	74	15	29
SEX											
Male	1,697	43	451	27	53	409	24	54	134	8	54
Female	2,234	57	395	18	47	349	16	46	116	5	46
AGE											
16 to 17 years	281	7	14	5	2	14	5	2	5	2	2
18 to 24 years	332	8	97	29	11	72	22	9	28	8	11
25 to 34 years	591	15	174	30	21	165	28	22	61	10	24
35 to 44 years	812	21	144	18	17	129	16	17	42	5	17
45 to 54 years	626	16	162	26	19	148	24	20	58	9	23
55 to 64 years	677	17	182	27	21	162	24	21	40	6	16
65 years and older	612	16	74	12	9	68	11	9	16	3	6
65 to 74 years	392	10	54	14	6	51	13	7	9	2	4
75 and older	219	6	20	9	2	17	8	2	7	3	3
ETHNICITY											
Hispanic	207	5	38	19	5	33	16	4	5	2	2
Non-Hispanic	3,725	95	808	22	95	724	19	96	246	7	98
RACE											
White	2,235	57	599	27	71	519	23	69	188	8	75
African American	1,530	39	213	14	25	210	14	28	51	3	20
All Others	166	4	33	20	4	28	17	4	12	7	5

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Table 15 Louisiana 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	550	14	74	14	9	68	12	9	42	8	17
\$20,000 to \$29,999	326	8	32	10	4	31	10	4	7	2	3
\$30,000 to \$39,999	254	6	39	15	5	36	14	5	3	1	1
\$40,000 to \$49,999	545	14	154	28	18	147	27	19	41	8	16
\$50,000 to \$74,999	533	14	87	16	10	76	14	10	23	4	9
\$75,000 to \$99,999	340	9	71	21	8	68	20	9	20	6	8
\$100,000 to \$149,999	518	13	195	38	23	147	28	19	62	12	25
\$150,000 or more	207	5	75	36	9	73	35	10	28	14	11
Not reported	659	17	119	18	14	110	17	15	24	4	10
EDUCATION											
8 years or less	181	5	14	8	2	14	8	2	—	—	—
9 to 12 years	1,498	38	301	20	36	281	19	37	107	7	43
1 to 3 years of college	1,358	35	299	22	35	252	19	33	69	5	27
4 years or more of college	894	23	232	26	27	210	24	28	75	8	30

— No sample data

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 Louisiana Residents for Fishing and Hunting Both In and Out of Louisiana: 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	3,620,134	4,279	4,503	804
Food and lodging	592,515	700	954	621
Transportation	334,266	395	555	602
Other trip costs ²	632,798	748	1,000	633
Equipment (fishing, hunting)	728,612	861	1,135	642
Auxiliary equipment ³	206,505	244	821	252
Special equipment ⁴	703,169	831	9,701	72
Magazines, books, and DVDs	5,227	6	133	39
Membership dues/contributions	18,246	22	160	114
Other ⁵	398,797	471	772	516
FISHING	1,475,239	1,947	1,981	745
Food and lodging	299,557	395	534	561
Transportation	179,232	237	329	545
Other trip costs ²	368,839	487	581	635
Fishing equipment	323,507	427	550	589
Auxiliary equipment ³	26,387	35	199	133
Special equipment ⁴	215,476	284	6,741	32
Magazines, books, and DVDs	2,909	4	87	33
Membership dues/contributions	8,244	11	93	89
Other ⁵	51,087	67	124	411
HUNTING	1,504,878	6,008	6,021	250
Food and lodging	242,325	967	1,109	219
Transportation	128,523	513	593	217
Other trip costs ²	222,429	888	1,556	143
Hunting equipment	327,999	1,309	1,794	183
Auxiliary equipment ³	91,376	365	608	150
Special equipment ⁴	238,672	953	7,744	31
Magazines, books, and DVDs	1,920	8	83	23
Membership dues/contributions	7,617	30	236	32
Other ⁵	244,015	974	984	248
UNSPECIFIED⁶	260,432	308	3,527	74

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

	PARTICIPANTS			DAYS OF PARTICIPATION		TRIPS	
	#	%	% Pop.	#	%	#	%
WILDLIFE WATCHERS	1,232	100	34	76,765	100	7,322	100
Away from home	526	43	15	12,158	16	7,322	100
Observe wildlife	519	42	14	11,234	15	x	x
Photograph wildlife	408	33	11	5,360	7	x	x
Feed wildlife	358	29	10	6,371	8	x	x
Around the home	1,228	100	34	64,607	84	x	x
Observe wildlife	807	66	22	49,976	65	x	x
Photograph wildlife	415	34	12	7,632	10	x	x
Feed wildlife	816	66	23	x	x	x	x
Visit parks or natural areas ¹	350	28	10	6,999	9	x	x
Maintain plantings or natural areas	287	23	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 Louisiana 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	3,599	100	1,232	34	100	526	15	100	1,228	34	100
RESIDENCE DENSITY											
Urban	2,691	75	906	34	74	411	15	78	902	34	73
Rural	908	25	326	36	26	115	13	22	326	36	27
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	3,153	88	1,062	34	86	447	14	85	1,058	34	86
1,000,000 or more	1,076	30	352	33	29	202	19	38	347	32	28
250,000 to 999,999	1,204	33	408	34	33	77	6	15	408	34	33
50,000 to 249,999	873	24	303	35	25	167	19	32	303	35	25
Outside MSA	446	12	170	38	14	79	18	15	170	38	14
SEX											
Male	1,758	49	556	32	45	197	11	37	551	31	45
Female	1,842	51	677	37	55	329	18	63	677	37	55
AGE											
16 to 17 years	94	3	—	—	—	—	—	—	—	—	—
18 to 24 years	313	9	51	16	4	17	5	3	51	16	4
25 to 34 years	924	26	385	42	31	141	15	27	385	42	31
35 to 44 years	366	10	151	41	12	71	19	13	146	40	12
45 to 54 years	476	13	170	36	14	105	22	20	170	36	14
55 to 64 years	488	14	162	33	13	73	15	14	162	33	13
65 years and older	938	26	313	33	25	119	13	23	313	33	25
65 to 74 years	708	20	237	33	19	95	13	18	237	33	19
75 and older	230	6	76	33	6	24	10	5	76	33	6
ETHNICITY											
Hispanic	191	5	53	28	4	8	4	1	53	28	4
Non-Hispanic	3,408	95	1,179	35	96	518	15	99	1,175	34	96
RACE											
White	2,501	69	871	35	71	398	16	76	866	35	71
African American	708	20	181	26	15	—	—	—	181	26	15
All Others	390	11	181	46	15	128	33	24	181	46	15

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Table 30 Louisiana 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	217	6	92	43	7	46	21	9	92	43	8
\$20,000 to \$29,999	443	12	155	35	13	35	8	7	155	35	13
\$30,000 to \$39,999	172	5	44	26	4	15	9	3	44	26	4
\$40,000 to \$49,999	544	15	194	36	16	32	6	6	194	36	16
\$50,000 to \$74,999	563	16	114	20	9	65	11	12	114	20	9
\$75,000 to \$99,999	381	11	134	35	11	52	14	10	134	35	11
\$100,000 to \$149,999	333	9	118	35	10	45	14	9	118	35	10
\$150,000 or more	195	5	69	35	6	34	17	6	65	33	5
Not reported	751	21	312	42	25	203	27	39	312	42	25
EDUCATION											
8 years or less	250	7	87	35	7	15	6	3	87	35	7
9 to 12 years	1,177	33	438	37	36	157	13	30	438	37	36
1 to 3 years of college	1,184	33	448	38	36	225	19	43	443	37	36
4 years or more of college	988	27	260	26	21	129	13	24	260	26	21

— 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 Louisiana Residents for All Wildlife Watching Both In and Out of Louisiana: 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	1,613,866	1,310	1,862	867	70
TRIP-RELATED EXPENDITURES	534,095	433	1,126	474	38
Food and lodging	263,844	214	589	448	36
Food	181,199	147	405	448	36
Lodging	82,643	67	568	145	12
Transportation	200,264	162	434	461	37
Other trip costs ²	69,989	57	245	285	23
EQUIPMENT AND OTHER EXPENDITURES	1,079,769	876	1,312	823	67
Wildlife-watching equipment	318,256	258	392	811	66
Binoculars, spotting scopes	26,577	22	218	122	10
Film and photo processing	8,796	7	94	93	8
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	69,530	56	383	182	15
Day packs, carrying cases, and special clothing	81,481	66	279	292	24
Bird food	57,671	47	92	629	51
Food for other wildlife	43,619	35	133	328	27
Nest boxes, bird houses, bird feeders, and bird baths	29,285	24	79	369	30
Other equipment (including field guides)	1,299	1	31	41	3
Auxiliary equipment ³	61,340	50	371	165	13
Special equipment ⁴	464,390	377	8,133	57	5
Magazines, books, and DVDs	7,663	6	64	120	10
Membership dues and contributions	25,081	20	99	254	21
Land leasing and ownership	104,117	84	1,369	76	6
Plantings	98,923	80	708	140	11

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 Louisiana Residents for Away-from-home Wildlife Watching Both In and Out of Louisiana: 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	742,765	1,413	1,592	467	89
TRIP-RELATED EXPENDITURES	564,259	1,074	1,312	430	82
Food and lodging	308,996	588	859	360	68
Food	157,656	300	438	360	68
Lodging	151,340	288	726	209	40
Transportation	213,143	406	515	414	79
Other trip costs ²	42,120	80	346	122	23
EQUIPMENT AND OTHER EXPENDITURES	178,505	340	583	306	58
Wildlife-watching equipment	55,517	106	331	168	32
Binoculars, spotting scopes	—	—	—	—	—
Film and photo processing	1,665	3	65	26	5
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	1,124	2	100	11	2
Day packs, carrying cases, and special clothing	49,328	94	348	142	27
Bird food	845	2	25	34	6
Food for other wildlife	2,452	5	40	61	12
Nest boxes, bird houses, bird feeders, and bird baths	102	0	12	8	2
Other equipment (including field guides)	—	—	—	—	—
Auxiliary equipment ³	899	2	80	11	2
Special equipment ⁴	63,661	121	20,000	3	1
Magazines, books, and DVDs	1,809	3	27	67	13
Membership dues and contributions	3,941	7	39	102	19
Land leasing and ownership	52,678	100	1,174	45	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 Louisiana Residents for Around-the-home Wildlife Watching Both In and Out of Louisiana: 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	394,094	321	564	699	57
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	394,094	321	564	699	57
Wildlife-watching equipment	178,214	145	288	619	50
Binoculars, spotting scopes	4,862	4	100	49	4
Film and photo processing	2,731	2	79	34	3
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	33,930	28	225	151	12
Day packs, carrying cases, and special clothing	31,739	26	286	111	9
Bird food	48,788	40	96	508	41
Food for other wildlife	29,249	24	143	205	17
Nest boxes, bird houses, bird feeders, and bird baths	26,721	22	82	326	27
Other equipment (including field guides)	194	0	50	4	0
Auxiliary equipment ³	14,422	12	165	87	7
Special equipment ⁴	38,322	31	1,156	33	3
Magazines, books, and DVDs	2,923	2	78	37	3
Membership dues and contributions	27,312	22	194	140	11
Land leasing and ownership	4,961	4	425	12	1
Plantings	127,939	104	1,003	128	10

— 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 Louisiana 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	1,232	100	526	100	1,228	100
Did not fish or hunt	428	35	142	27	428	35
Fished or hunted	805	65	383	73	800	65
Fished	696	56	373	71	692	56
Hunted	291	24	124	24	291	24

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

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

	SPORTSPERSONS		ANGLERS		HUNTERS	
	#	%	#	%	#	%
ALL SPORTSPERSONS	846	100	758	100	250	100
Did not watch wildlife	213	25	204	27	46	18
Watched wildlife	631	75	554	73	203	81
Away from home	314	37	295	39	109	43
Around the home	600	71	525	69	183	73

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 Louisiana 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	139.45	0.00	8,419.62	0.00	3,273.23	0.00
All freshwater	117.36	6.78	8,153.89	10.39	3,029.01	6.09
Freshwater, except Great Lakes	117.36	6.78	8,153.98	10.40	3,028.86	6.10
Great Lakes	4.10	0.54	4.10	0.02	4.10	0.03
Saltwater	94.35	9.11	1,448.55	10.39	638.61	6.09
ALL HUNTING	58.47	0.00	1,930.08	0.00	1,584.75	0.00
Big game	51.04	4.57	1,331.77	9.44	932.67	7.01
Small game	32.31	7.48	1,001.57	11.14	481.52	5.91
Migratory birds	28.61	8.11	693.01	8.68	484.01	6.91
Other animals	19.50	6.80	234.83	2.66	237.77	3.41

Table 15 SE Standard Errors of Louisiana 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	226.36	0.00	160.74	4.27	0.00	139.45	3.37	0.00	58.47	1.44	0.00
RESIDENCE DENSITY											
Urban	241.27	3.55	109.72	4.08	6.38	100.05	3.74	6.52	34.85	1.25	9.68
Rural	137.20	3.55	83.56	9.03	6.38	71.16	7.65	6.52	40.42	4.24	9.68
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	227.40	2.32	136.74	4.18	5.72	120.03	3.68	6.17	48.70	1.46	10.61
1,000,000 or more	194.65	4.59	80.38	8.54	7.50	76.27	8.11	8.08	17.85	1.80	5.83
250,000 to 999,999	218.16	4.78	78.98	5.56	6.51	69.57	4.87	6.79	34.51	2.31	10.44
50,000 to 249,999	120.78	3.11	31.83	4.86	3.00	28.43	4.29	3.14	13.08	1.88	4.51
Outside MSA	92.14	2.32	57.54	13.39	5.72	54.13	12.49	6.17	31.04	6.91	10.61
SEX											
Male	154.50	3.00	94.23	6.06	4.70	83.43	5.38	4.84	38.44	2.38	9.14
Female	172.05	3.00	84.51	4.02	4.70	73.61	3.51	4.84	35.09	1.62	9.14
AGE											
16 to 17 years	156.24	3.92	8.42	4.10	0.96	8.27	4.03	1.06	5.36	2.15	2.14
18 to 24 years	98.42	2.54	40.18	14.83	4.30	32.30	11.64	3.96	20.00	6.52	7.76
25 to 34 years	118.97	2.97	54.21	10.93	5.17	51.21	10.33	5.54	30.03	5.49	10.87
35 to 44 years	165.36	3.96	45.23	6.64	4.34	41.84	6.08	4.63	17.83	2.44	6.12
45 to 54 years	87.70	2.13	45.81	8.16	4.10	42.90	7.61	4.45	22.91	3.89	7.56
55 to 64 years	94.42	2.36	53.38	8.72	4.91	49.67	8.06	5.33	14.53	2.30	4.55
65 years and older	85.77	1.97	20.43	3.75	1.78	19.07	3.48	1.93	6.08	1.06	1.98
65 to 74 years	61.55	1.49	16.18	4.66	1.50	15.61	4.48	1.67	3.69	1.01	1.22
75 and older	58.34	1.42	8.38	4.52	0.90	7.52	3.97	0.92	3.80	1.91	1.43
ETHNICITY											
Hispanic	74.57	1.88	16.48	10.41	1.78	15.06	9.31	1.85	4.13	2.18	1.63
Non-Hispanic	225.58	1.88	154.18	4.34	1.78	134.05	3.79	1.85	57.45	1.59	1.63
RACE											
White	187.21	5.07	134.45	6.42	8.60	117.58	5.61	9.20	52.68	2.46	11.95
African American	256.37	5.20	83.29	5.92	8.76	79.71	5.70	9.36	31.57	2.14	12.02
All Others	56.28	1.46	15.40	11.46	1.69	14.00	10.19	1.75	8.09	5.42	3.12

(continued on next page)

Table 15 SE Standard Errors of Louisiana 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	191.20	4.69	41.01	8.82	4.63	39.69	8.40	5.06	28.87	5.87	11.17
\$20,000 to \$29,999	109.64	2.79	17.55	6.34	1.98	17.20	6.20	2.18	6.38	2.09	2.53
\$30,000 to \$39,999	79.23	2.08	15.10	7.63	1.58	14.64	7.25	1.75	1.98	0.89	0.74
\$40,000 to \$49,999	172.72	4.27	72.07	15.98	7.93	69.91	15.42	8.65	17.59	4.01	6.06
\$50,000 to \$74,999	110.18	2.81	27.78	6.21	2.69	24.83	5.52	2.75	9.48	1.99	3.20
\$75,000 to \$99,999	85.82	2.25	23.49	8.69	2.32	22.56	8.36	2.52	9.71	3.22	3.50
\$100,000 to \$149,999	98.62	2.59	61.67	13.87	5.94	50.62	11.16	5.74	26.47	5.59	9.11
\$150,000 or more	60.59	1.55	28.68	17.47	3.00	27.97	17.01	3.30	12.82	7.39	4.51
Not reported	168.14	3.88	49.67	8.84	5.32	47.56	8.39	5.77	18.02	2.89	7.02
EDUCATION											
8 years or less	56.54	1.45	7.36	4.77	0.82	7.24	4.70	0.91	—	—	—
9 to 12 years	207.38	4.67	72.21	5.57	5.31	66.30	5.13	5.58	35.62	2.58	10.45
1 to 3 years of college	204.24	4.59	73.77	6.36	5.67	63.10	5.42	5.73	25.74	2.04	8.28
4 years or more of college	131.36	3.36	56.79	7.40	4.32	51.49	6.71	4.56	23.89	2.94	6.66

— 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 fished, etc.). Columns labeled "%" 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 Louisiana Residents for Fishing and Hunting Both In and Out of Louisiana: 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	1,166,218.50	1,133.90	1,150.66	165.56
Food and lodging	247,536.84	265.42	339.40	133.30
Transportation	131,814.16	139.07	182.48	129.47
Other trip costs ²	228,079.17	233.35	288.80	136.21
Equipment (fishing, hunting)	263,098.36	269.37	335.72	137.70
Auxiliary equipment ³	72,982.34	74.09	249.30	64.21
Special equipment ⁴	324,452.78	355.98	5,758.56	31.62
Magazines, books, and DVDs	2,343.35	2.56	25.92	14.60
Membership dues/contributions	9,482.50	10.63	64.98	40.66
Other ⁵	176,378.62	191.76	299.26	112.11
FISHING	445,450.00	474.19	484.69	137.33
Food and lodging	108,058.08	124.79	150.15	123.45
Transportation	81,175.47	99.60	128.85	121.56
Other trip costs ²	120,625.37	133.89	147.12	133.50
Fishing equipment	96,911.98	102.68	114.32	126.17
Auxiliary equipment ³	10,468.72	12.45	73.86	48.39
Special equipment ⁴	114,923.86	144.84	2,554.93	13.58
Magazines, books, and DVDs	1,479.95	1.85	20.13	14.35
Membership dues/contributions	5,403.96	6.96	61.00	34.98
Other ⁵	36,039.66	46.72	86.90	97.75
HUNTING	665,788.72	2,322.06	2,327.45	58.35
Food and lodging	156,091.05	597.29	683.65	53.16
Transportation	74,285.05	279.01	321.96	52.75
Other trip costs ²	129,898.09	488.86	817.59	40.44
Hunting equipment	167,225.94	610.38	797.07	46.53
Auxiliary equipment ³	28,629.42	78.41	115.04	39.84
Special equipment ⁴	192,984.78	758.58	11,084.64	19.76
Magazines, books, and DVDs	1,278.74	4.92	20.32	13.26
Membership dues/contributions	5,838.02	22.83	78.83	21.07
Other ⁵	107,997.23	376.71	381.02	57.91
UNSPECIFIED⁶	134,265.25	150.27	1,569.01	27.52

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

	PARTICIPANTS			DAYS OF PARTICIPATION		TRIPS	
	#	%	% Pop.	#	%	#	%
WILDLIFE WATCHERS	134.56	0.00	2.76	18,009.48	0.00	2,297.21	0.00
Away from home	107.56	7.43	3.18	3,349.61	3.14	2,549.65	0.00
Observe wildlife	107.08	7.42	3.16	3,143.66	3.04	x	x
Photograph wildlife	102.64	7.55	2.97	2,114.52	1.88	x	x
Feed wildlife	94.56	7.03	2.73	2,532.73	2.00	x	x
Around the home	134.17	0.35	4.50	16,071.30	3.14	x	x
Observe wildlife	122.69	6.96	3.79	13,352.81	6.31	x	x
Photograph wildlife	90.35	6.38	2.65	2,710.52	2.29	x	x
Feed wildlife	134.52	8.23	4.10	x	x	x	x
Visit parks or natural areas ¹	88.59	6.52	2.56	2,780.08	2.80	x	x
Maintain plantings or natural areas	83.59	6.33	2.40	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 Louisiana 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	266.34	0.00	134.56	2.76	0.00	107.56	3.18	0.00	134.17	4.50	0.00
RESIDENCE DENSITY											
Urban	336.67	5.64	128.27	6.36	6.66	92.22	3.92	7.39	127.98	6.34	6.69
Rural	186.13	5.64	89.01	12.26	6.66	44.72	5.57	7.39	89.06	12.26	6.69
RESIDENCE SIZE											
Metropolitan Statistical Area (MSA)	303.68	3.94	129.70	5.24	4.74	97.23	3.37	6.43	129.34	5.22	4.75
1,000,000 or more	277.45	6.67	99.73	12.52	7.51	80.28	8.89	13.37	99.60	12.44	7.54
250,000 to 999,999	216.46	5.88	99.26	10.25	7.24	36.65	3.25	6.43	99.29	10.25	7.27
50,000 to 249,999	199.14	5.46	88.52	12.87	6.70	75.67	9.71	13.12	88.54	12.87	6.73
Outside MSA	136.81	3.94	60.90	17.97	4.74	36.81	9.87	6.43	60.90	17.97	4.75
SEX											
Male	226.57	5.16	90.09	6.55	5.44	57.39	3.57	7.94	89.62	6.51	5.44
Female	227.56	5.16	99.49	7.06	5.44	78.69	4.81	7.94	99.35	7.05	5.44
AGE											
16 to 17 years	72.32	2.02	—	—	—	—	—	—	—	—	—
18 to 24 years	192.87	5.24	32.85	14.49	2.64	17.84	6.58	3.40	32.85	14.49	2.65
25 to 34 years	233.85	6.01	98.71	15.00	7.29	72.40	8.73	12.90	98.74	15.00	7.32
35 to 44 years	111.41	3.30	54.30	19.44	4.22	35.24	11.30	6.24	53.83	19.11	4.21
45 to 54 years	107.21	2.98	50.24	13.27	3.81	40.20	9.79	6.62	50.25	13.28	3.82
55 to 64 years	91.00	2.49	38.59	10.05	2.80	28.38	6.45	4.69	38.59	10.05	2.81
65 years and older	175.66	4.47	74.89	10.15	5.44	46.16	5.47	7.62	74.83	10.14	5.45
65 to 74 years	169.72	4.40	72.45	13.01	5.52	41.76	6.73	7.17	72.41	13.01	5.54
75 and older	56.15	1.58	23.10	12.89	1.76	15.08	7.02	2.78	23.10	12.89	1.76
ETHNICITY											
Hispanic	95.39	2.59	32.40	21.87	2.60	5.97	3.69	1.12	32.40	21.87	2.61
Non-Hispanic	256.71	2.59	132.63	4.68	2.60	106.17	3.32	1.12	132.25	4.67	2.61
RACE											
White	221.25	7.96	149.01	6.71	9.37	109.72	4.61	14.30	148.68	6.69	9.39
African American	289.49	7.37	95.55	17.08	7.63	—	—	—	95.53	17.08	7.66
All Others	223.50	6.08	101.08	37.02	8.09	78.09	27.41	14.30	101.07	37.02	8.12

(continued on next page)

Table 30 SE Standard Errors of Louisiana 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	76.62	2.12	36.02	22.45	2.82	24.37	13.49	4.38	36.02	22.45	2.83
\$20,000 to \$29,999	126.54	3.52	54.29	15.80	4.21	17.21	4.48	3.05	54.32	15.81	4.23
\$30,000 to \$39,999	63.16	1.84	19.60	14.80	1.55	10.25	6.80	1.89	19.61	14.81	1.56
\$40,000 to \$49,999	217.21	6.16	94.13	22.38	7.49	22.50	4.74	4.19	94.17	22.38	7.52
\$50,000 to \$74,999	205.49	5.55	44.88	10.89	3.52	33.26	7.25	5.93	44.90	10.89	3.53
\$75,000 to \$99,999	118.97	3.39	51.69	17.45	4.05	30.69	9.11	5.60	51.70	17.45	4.06
\$100,000 to \$149,999	89.68	2.54	36.83	14.59	2.82	25.76	8.56	4.68	36.83	14.59	2.83
\$150,000 or more	79.28	2.19	33.22	22.31	2.64	28.40	16.20	5.35	32.89	21.62	2.63
Not reported	260.85	6.45	105.26	20.11	8.13	84.43	14.64	14.29	105.17	20.10	8.15
EDUCATION											
8 years or less	157.82	4.26	67.64	34.89	5.47	9.94	5.53	1.84	67.64	34.89	5.49
9 to 12 years	229.21	5.88	99.81	11.15	7.15	66.47	6.21	11.32	99.84	11.16	7.18
1 to 3 years of college	195.29	6.24	107.83	11.04	7.85	75.75	7.12	11.69	107.44	10.98	7.86
4 years or more of college	256.06	6.44	85.19	10.99	6.56	74.23	8.24	13.49	85.17	10.98	6.58

— 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 Louisiana Residents for All Wildlife Watching Both In and Out of Louisiana: 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	427,061.70	317.55	433.29	132.72	7.60
TRIP-RELATED EXPENDITURES	150,594.40	113.34	274.01	101.27	7.10
Food and lodging	76,063.87	57.47	145.33	98.65	6.99
Food	54,547.85	41.50	95.01	98.65	6.99
Lodging	34,050.78	26.80	179.65	44.88	3.43
Transportation	64,376.68	49.43	128.38	100.83	7.13
Other trip costs ²	24,922.24	19.36	96.38	90.19	6.91
EQUIPMENT AND OTHER EXPENDITURES	333,344.00	254.52	370.91	130.32	7.71
Wildlife-watching equipment	75,632.71	54.84	78.45	129.64	7.73
Binoculars, spotting scopes	10,351.75	8.11	77.44	43.43	3.37
Film and photo processing	3,481.77	2.73	29.85	36.05	2.82
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	27,672.52	21.72	127.28	56.78	4.34
Day packs, carrying cases, and special clothing	22,787.63	17.13	88.16	85.08	6.44
Bird food	14,778.68	10.91	20.09	121.59	8.19
Food for other wildlife	14,587.22	11.26	26.30	91.53	6.88
Nest boxes, bird houses, bird feeders, and bird baths	11,374.54	8.91	25.83	90.40	6.60
Other equipment (including field guides)	697.65	0.56	14.88	19.74	1.57
Auxiliary equipment ³	22,649.82	17.66	84.36	59.04	4.59
Special equipment ⁴	268,770.89	215.46	4,310.26	19.83	1.54
Magazines, books, and DVDs	3,681.92	2.93	17.75	59.58	4.74
Membership dues and contributions	13,872.82	11.10	57.96	84.48	6.51
Land leasing and ownership	56,427.38	45.12	380.59	33.26	2.63
Plantings	70,439.79	56.82	502.24	49.73	3.86

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 Louisiana Residents for Away-from-home Wildlife Watching
Both In and Out of Louisiana: 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	293,457.84	487.94	532.15	105.90	8.91
TRIP-RELATED EXPENDITURES	251,183.77	433.60	512.09	104.48	10.94
Food and lodging	149,039.02	262.34	346.17	109.49	15.75
Food	69,811.67	120.34	150.92	109.49	15.75
Lodging	83,105.75	149.91	241.68	82.91	13.82
Transportation	93,219.57	160.14	194.96	102.26	11.16
Other trip costs ²	31,153.75	58.19	292.22	62.97	11.24
EQUIPMENT AND OTHER EXPENDITURES	94,980.61	170.43	283.31	95.69	14.06
Wildlife-watching equipment	37,355.68	69.17	133.75	84.42	15.00
Binoculars, spotting scopes	—	—	—	—	—
Film and photo processing	1,786.12	3.41	0.00	27.48	5.24
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	1,205.62	2.30	0.00	12.06	2.30
Day packs, carrying cases, and special clothing	37,239.18	69.68	163.78	81.71	14.84
Bird food	732.74	1.38	0.00	29.31	5.54
Food for other wildlife	1,827.21	3.42	0.00	45.68	8.54
Nest boxes, bird houses, bird feeders, and bird baths	109.49	0.21	0.00	8.76	1.67
Other equipment (including field guides)	—	—	—	—	—
Auxiliary equipment ³	964.49	1.84	0.00	12.06	2.30
Special equipment ⁴	69,016.60	131.75	0.00	3.45	0.66
Magazines, books, and DVDs	1,473.15	2.77	14.56	43.38	8.00
Membership dues and contributions	3,801.68	7.22	37.10	63.77	11.72
Land leasing and ownership	50,979.27	96.86	711.04	38.27	7.22
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 Louisiana Residents for Around-the-home Wildlife Watching
Both In and Out of Louisiana: 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	140,999.43	109.98	181.41	146.48	10.24
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	140,999.43	109.98	181.41	146.48	10.24
Wildlife-watching equipment	55,722.77	42.77	70.33	141.50	10.18
Binoculars, spotting scopes	2,926.46	2.36	18.80	28.90	2.33
Film and photo processing	1,498.90	1.20	40.37	19.19	1.54
Cameras, special lenses, video cameras, and other photographic equipment, including memory cards	13,356.55	10.51	73.12	65.82	5.22
Day packs, carrying cases, and special clothing	16,954.55	13.59	77.45	62.04	4.98
Bird food	18,157.95	14.22	29.00	132.85	9.88
Food for other wildlife	14,177.52	11.31	19.31	87.96	6.97
Nest boxes, bird houses, bird feeders, and bird baths	15,977.52	12.87	48.81	118.97	9.30
Other equipment (including field guides)	200.97	0.16	0.00	4.01	0.33
Auxiliary equipment ³	9,931.55	8.03	22.00	59.94	4.85
Special equipment ⁴	27,316.22	22.11	554.26	20.32	1.64
Magazines, books, and DVDs	1,957.81	1.58	40.27	18.17	1.45
Membership dues and contributions	21,397.07	17.36	164.24	71.33	5.71
Land leasing and ownership	5,183.82	4.22	0.00	12.20	0.99
Plantings	108,679.54	88.28	917.01	62.87	5.02

— 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 Louisiana 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	134.56	0.00	107.56	0.00	134.17	0.00
Did not fish or hunt	96.85	6.93	55.13	9.10	96.90	6.95
Fished or hunted	122.13	6.93	91.32	9.10	121.86	6.95
Fished	121.43	7.73	90.49	9.42	121.15	7.76
Hunted	84.34	6.38	47.07	7.71	84.32	6.40

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

	SPORTSPERSONS		ANGLERS		HUNTERS	
	#	%	#	%	#	%
ALL SPORTSPERSONS	160.74	0.00	139.45	0.00	58.47	0.00
Did not watch wildlife	49.86	3.51	46.54	3.70	15.73	4.76
Watched wildlife	123.49	3.55	105.57	3.70	48.92	4.89
Away from home	75.11	5.49	69.88	5.91	32.15	8.12
Around the home	118.23	3.81	101.05	3.93	45.38	6.23

