

Wildlife Watching in the U.S.: The Economic Impacts on National and State Economies in 2006

*Addendum to the 2006 National
Survey of Fishing, Hunting, and
Wildlife-Associated Recreation*

Report 2006-1



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July 2008

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This report is intended to complement the National and State Reports for the 2006 National Survey of Fishing, Hunting and Wildlife-Associated Recreation. The conclusions in this report are the author's and do not represent official positions of the U.S. Fish and Wildlife Service.

The author thanks Jim Caudill, Sylvia Cabrera, Richard Aiken, and Tom Allen for valuable input on this report.

Introduction

Wildlife watching is one of the most popular types of outdoor recreation in the United States. Nearly a third of the U.S. population, 71 million people, enjoyed closely observing, feeding, and photographing wildlife in 2006. Wildlife watching around the home and on trips is an important and growing form of recreation. Eight percent more people participated in 2006 than in 2001.

In addition to contributing significantly to people's enjoyment of the outdoors, wildlife watching has a substantial impact on the nation's and states' economies. The \$45.7 billion spent on wildlife equipment and trips in 2006 contributed substantially to federal and state tax revenues, jobs, earnings, and economic output.

This report presents estimates of the national and state economic impacts of wildlife watching, which were derived using data from the 2006 Fishing, Hunting, and Wildlife Associated Recreation Survey (FHWAR). The following topics are addressed: (1) national participation in wildlife watching; (2) expenditures associated with participation in wildlife watching; (3) estimates of the total economic activity generated by these expenditures; (4) total employment and



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employment income associated with these expenditures; and (5) estimates of associated state and federal tax revenue. Two other reports used the 2006 FHWAR to address the national and state economic impacts of hunting and fishing¹.

The 2006 FHWAR collected information on fishing, hunting, and wildlife-watching participation and expenditures in 2006. National and state reports are accessible on the following websites <http://wsfrprograms.fws.gov> and <http://www.census.gov/prod/www/abs/fishing.html>

¹ See "Hunting in America: An Economic Engine and Conservation Powerhouse," Association of Fish and Wildlife Agencies and "Sportfishing in America: An Economic Engine and Conservation Powerhouse," American Sportfishing Association.

Participation in Wildlife Watching

Summary of National Economic Impacts of Wildlife Watching: 2006

Participation	71,132,000
Total Expenditures	\$45,654,959,000
Total Industry Output	\$122,581,880,075
Employment	1,063,482
Labor Income	\$40,460,527,120
State and Local Taxes	\$8,862,580,065
Federal Taxes	\$9,329,700,750

The 71 million people who wildlife watched in 2006 are further categorized as around-the-home and away-from-home participants. Of the 71 million people who wildlife watched, 95% (68 million) did so within one mile of their homes. These 68 million recreationists are referred to as around-the-home participants². Thirty-two percent of all wildlife watchers took trips or outings at least one mile from home to engage in their activities. These 23 million recreationists are referred to as away-from-home participants.

² Their activities include one or more of the following: (1) closely observing or trying to identify birds or other wildlife; (2) photographing wildlife; (3) feeding birds or other wildlife on a regular basis; (4) maintaining natural areas of at least one-quarter acre for which benefit to wildlife is the primary purpose; (5) maintaining plantings (shrubs, agricultural crops, etc.) for which benefit to wildlife is the primary concern, or (6) visiting public parks within one mile of home for the primary purpose of observing, feeding, or photographing wildlife.



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Inside The Numbers

Roughly one out of three Americans 16 years of age and older, or 71 million, participated in wildlife watching in 2006.

The 71 million wildlife-watching participants is more than four times greater than the attendance of all National League Football teams during the 2006 season.

Wildlife-related expenditures in 2006 were \$45.7 billion.

Expenditures on wildlife watching are equivalent to the amount of revenue from all spectator sports (football, baseball, and other sports), all amusement parks and arcades, casinos (except casino hotels), bowling centers, and skiing facilities.

Table 1. Number of Wildlife-Watching Participants: 2006

(Population 16 years and older)

State where activity took place	Total participants Number
Alabama	1,161,000
Alaska	496,000
Arizona	1,277,000
Arkansas	1,011,000
California	6,270,000
Colorado	1,819,000
Connecticut	1,170,000
Delaware	285,000
Florida	4,240,000
Georgia	1,987,000
Hawaii	262,000
Idaho	754,000
Illinois	2,566,000
Indiana	2,042,000
Iowa	1,205,000
Kansas	816,000
Kentucky	1,475,000
Louisiana	738,000
Maine	801,000
Maryland	1,491,000
Massachusetts	1,919,000
Michigan	3,227,000
Minnesota	2,093,000
Mississippi	731,000
Missouri	2,248,000
Montana	755,000
Nebraska	490,000
Nevada	686,000
New Hampshire	710,000
New Jersey	1,713,000
New Mexico	787,000
New York	3,852,000
North Carolina	2,641,000
North Dakota	148,000
Ohio	3,489,000
Oklahoma	1,110,000
Oregon	1,484,000
Pennsylvania	3,947,000
Rhode Island	436,000
South Carolina	1,115,000
South Dakota	432,000
Tennessee	2,362,000
Texas	4,225,000
Utah	877,000
Vermont	468,000
Virginia	2,312,000
Washington	2,331,000
West Virginia	743,000
Wisconsin	2,039,000
Wyoming	643,000
United States, total	71,132,000

Figure 1. Wildlife Expenditures by Major Category: 2006

(Total Expenditures: \$45.7 billion)

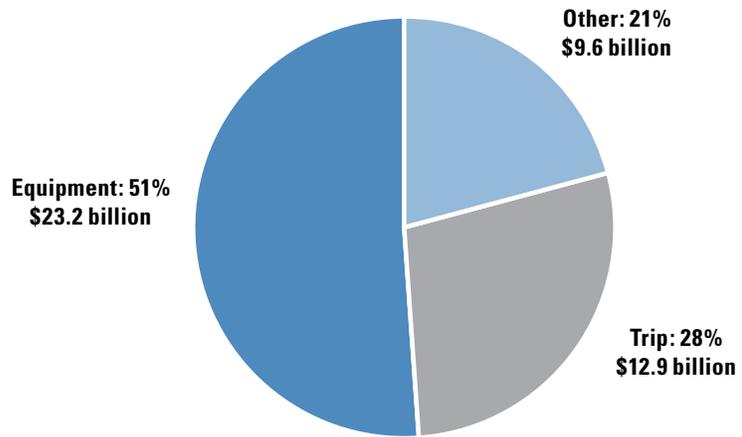
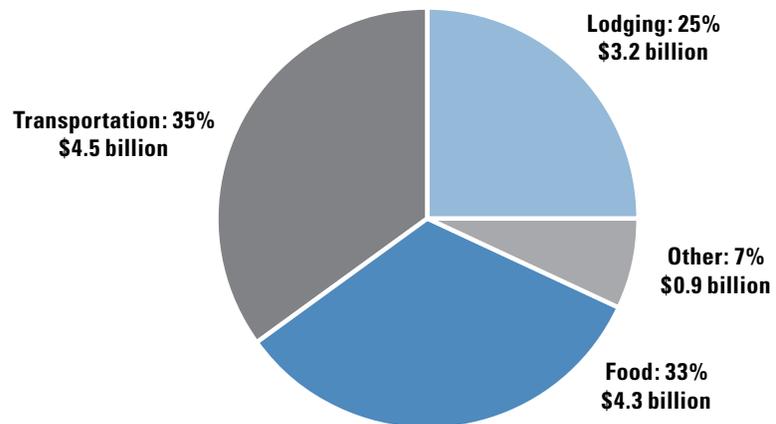


Figure 2. Trip Expenditures for Wildlife Watching: 2006

(Total Trip Expenditures: \$12.9 billion)



Economic Impact Quick Facts

Expenditures rippled through the economy generating \$122.6 billion in total industry output and 1,063,482 jobs

The more than one million jobs supported by wildlife watchers are almost three times the number of people who work for United Parcel Service in the U.S.

The Economic Impacts of Wildlife Watching

Spending associated with wildlife watching generates a substantial amount of economic activity across the United States. Participants spent \$45.7 billion in 2006 on a wide variety of goods and services. Trip-related expenditures by away-from-home participants include expenses for food, lodging, and transportation. Both around-the-home and away-from-home participants also buy equipment and related goods for the primary purpose of engaging in wildlife watching such as binoculars, cameras, wild bird food, memberships in wildlife organizations, camping equipment, motor homes, campers, and off-road vehicles.

To help place the \$45.7 billion in wildlife-watching expenditures into context, consider that it is equivalent to the amount of revenue from all spectator sports (football, baseball, and other sports), all amusement parks and arcades, casinos (except casino hotels) bowling centers, and skiing facilities³.

These direct expenditures are only part of the total picture. Businesses and industries that supply the local retailers where the purchases are made also benefit from wildlife-watching expenditures. For example, a family may decide to purchase a pair of binoculars to use primarily for birdwatching on an upcoming vacation. Part of the total purchase price will go to the local retailer such as a sporting goods store. The sporting goods store in turn pays a wholesaler that in turn pays the manufacturer of the binoculars. The manufacturer then spends a portion of this income to pay businesses supplying the manufacturer.

In this fashion, each dollar of local retail expenditures can affect a variety of businesses at the local, regional, and national level. Consequently, consumer

³ The figures were obtained from the revenue totals, corrected for inflation, displayed in the 1997 Economic Census published by the U.S. Census Bureau.

spending associated with wildlife watching has a substantial impact on economic activity, employment, and household income across the nation.

Methods

The 2006 FHWAR contains estimates of annual travel and equipment expenditures by wildlife-watching participants. These expenditures were used in conjunction with an economic modeling method known as input-output analysis⁴ to estimate total industry output, employment and employment income associated with these expenditures.

Direct Expenditures

Total direct expenditures by participants were \$45.7 billion in 2006. Trip-related expenditures accounted for about \$12.9 billion (28 percent of total expenditures). Food and drink accounted for 33 percent of total trip-related expenditures and transportation and lodging accounted for 35 and 25 percent, respectively.

Equipment and other expenditures accounted for \$32.8 billion (72 percent of total expenditures). Special equipment such as off-road vehicles, tent trailers, motor homes, pick-up trucks, and boats accounted for 27 percent of total expenditures. Packaged and bulk wild bird food accounted for 7 percent of total expenditures, while film and developing accounted for 2 percent, and photographic equipment such as cameras accounted for 7 percent.

⁴ The estimates of total economic activity, employment, employment income and federal and state taxes in this report were derived using IMPLAN, a regional input-output model and software system. For additional information, see MIG, Inc. IMPLAN System (2004 data and software) and Olson and Lindall, IMPLAN Professional Software, Analysis and Data Guide. For additional information on input-output modeling, see Miller and Blair Input-Output Analysis .



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Tax Impact Quick Facts

\$9.3 billion in federal tax revenue

\$8.9 billion in state tax revenue

Table 2. National Expenditures for Wildlife Watching by Category: 2006

	<i>Expenditures</i>	<i>Percent of Category Expenditures</i>	<i>Percent of Total Expenditures</i>
Trip-Related Expenditures			
Food	\$4,298,403,000	33.4%	9.4%
Lodging	\$3,217,878,000	25.0%	7.1%
Public transportation	\$1,566,963,000	12.2%	3.4%
Private transportation	\$2,889,050,000	22.4%	6.3%
Guide fees, pack trip or package fees	\$250,047,000	1.9%	0.5%
Public land use fees	\$140,508,000	1.1%	0.3%
Private land use fees	\$66,145,000	0.5%	0.1%
Equipment rental	\$148,706,000	1.2%	0.3%
Boating costs	\$224,981,000	1.7%	0.5%
Heating and cooking fuel	\$72,470,000	0.6%	0.2%
Total trip-related	\$12,875,152,000	100.0%	28.2%
Equipment			
<i>Wildlife-watching equipment</i>			
Binoculars, spotting scopes	\$656,462,000	6.7%	1.4%
Cameras, video cameras, special lenses, and other photographic equipment	\$3,078,089,000	31.2%	6.7%
Film and developing	\$767,465,000	7.8%	1.7%
Commercially prepared and packaged wild bird food	\$2,707,601,000	27.4%	5.9%
Other bulk foods used to feed wild birds	\$642,531,000	6.5%	1.4%
Feed for other wildlife	\$664,554,000	6.7%	1.5%
Nest boxes, bird houses, feeders, baths	\$789,918,000	8.0%	1.7%
Day packs, carrying cases, and special clothing	\$451,524,000	4.6%	1.0%
Other wildlife-watching equipment (such as field guides and maps)	\$111,582,000	1.1%	0.2%
Wildlife-watching equipment, total	\$9,869,727,000	100.0%	21.6%
<i>Auxiliary equipment</i>			
Tents, tarps	\$243,670,000	23.6%	0.5%
Frame packs and backpacking equipment	\$140,371,000	13.6%	0.3%
Other camping equipment	\$368,281,000	35.6%	0.8%
Other auxiliary equipment (such as blinds)	\$280,739,000	27.2%	0.6%
Auxiliary equipment, total	\$1,033,060,000	100.0%	2.3%
<i>Special equipment</i>			
Off-the-road vehicle	\$3,819,030,000	31.1%	8.4%
Travel or tent trailer, pickup, camper, van, motor home, recreational vehicle	\$5,329,261,000	43.4%	11.7%
Boats, boat accessories	\$1,824,071,000	14.9%	4.0%
Cabins and Other	\$1,298,904,000	10.6%	2.8%
Special equipment, total	\$12,271,266,000	100.0%	26.9%
Other Items			
Magazines, books	\$359,681,000	3.7%	0.8%
Land leasing and ownership	\$6,551,517,000	68.2%	14.4%
Membership dues and contributions	\$1,052,496,000	11.0%	2.3%
Plantings	\$1,642,061,000	17.1%	3.6%
Other, total	\$9,605,755,000	100.0%	21.0%
National Total, All Items	\$45,654,960,000		100.0%

Total Industry Output

The direct expenditures of \$45.7 billion in 2006 generated \$122.6 billion in total industrial output (TIO) across the U.S. TIO includes the direct, indirect, and induced effects⁵ of wildlife-watching expenditures. The ratio of TIO to direct expenditures, 2.68, means that for each \$1 of direct spending associated with wildlife watching, an additional \$1.68 of economic activity is generated. Major sectors affected include retail

⁵ Direct effects are production changes associated with the immediate effects of changes in final demand (in this case, changes in wildlife-associated expenditures); indirect effects are production changes in those industries which supply the inputs to industries directly affected by final demand; induced effects are changes in regional household spending patterns caused by changes in regional employment (generated from the direct and indirect effects) (Taylor et al. 1993, Appendix E, p. E-1).

trade which accounted for \$26.2 billion (21 percent of the impact in all sectors); manufacturing \$22.4 billion (18 percent); and accommodation and food services \$7.3 billion (6 percent).

Employment and Employment Income

The total industrial output of \$122.6 billion resulted in 1,063,482 jobs (full and part time) with total income of \$40.5 billion. With respect to employment, major industrial sectors affected include trade with over 358 thousand jobs (34 percent); accommodation and food services with 116 thousand jobs (11 percent); real estate and rental with 71 thousand jobs (7 percent) and arts, entertainment, and recreation with 61 thousand jobs (6 percent).

The retail trade sector accounted for the largest portion of income at \$10.6 billion (28 percent); manufacturing accounted for \$3.5 billion (9 percent); transportation and warehousing with \$2.6 billion

(7 percent) and accommodation and food services at \$2.4 billion (6 percent). Table 3 summarizes economic impacts by major business sector.

Federal and State Taxes

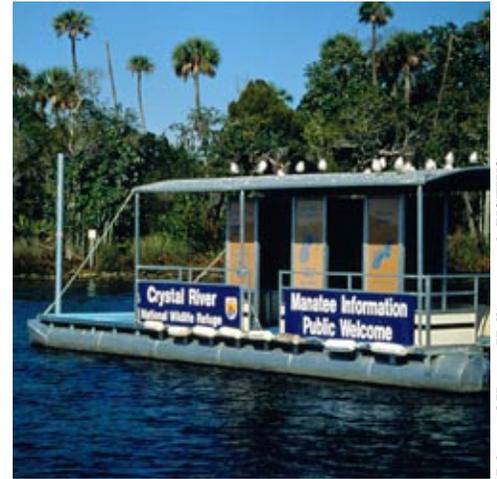
Wildlife-watching expenditures generate taxes at both the state and federal level in a number of ways. Direct and indirect expenditures generate state sales tax (except in those states without sales tax). Second, employment income is taxed at both the state (with the exception of states which do not tax income) and federal levels. Additionally, tax revenue is generated through taxes on corporate profits and excise taxes such as fuel taxes. Based on total industrial output and associated employment that result from wildlife-watching, 2006 tax revenue at the federal level was \$9.3 billion, and tax revenue at the state and local levels was \$8.9 billion.

Table 3. National Economic Impacts of Wildlife Watching by Major North American Industrial Classification Sector: 2006

	<i>Total Industrial Output</i>	<i>Sector as Percent of Total</i>	<i>Employment</i>	<i>Sector as Percent of Total</i>	<i>Salaries, Wages, and Business Owner's Income</i>	<i>Sector as Percent of Total</i>
11 Agriculture, Forestry, Fishing, and Hunting	\$1,734,812,928	1.4%	19,448	1.8%	\$429,253,120	1.1%
21 Mining	\$938,586,944	0.8%	2,078	0.2%	\$191,473,248	0.5%
22 Utilities	\$1,869,424,128	1.5%	2,586	0.2%	\$355,420,448	0.9%
23 Construction	\$1,095,349,760	0.9%	9,468	0.9%	\$434,646,272	1.1%
31-33 Manufacturing	\$22,396,049,408	18.3%	57,350	5.4%	\$3,490,920,448	9.1%
42 Wholesale Trade	\$4,141,315,328	3.4%	23,562	2.2%	\$1,485,685,504	3.9%
48-49 Transportation and Warehousing	\$4,977,086,976	4.1%	49,743	4.7%	\$2,608,190,976	6.8%
44-45 Retail trade	\$26,186,409,984	21.4%	358,982	33.8%	\$10,585,159,680	27.6%
51 Information	\$5,180,698,112	4.2%	17,017	1.6%	\$1,280,071,168	3.3%
52 Finance and insurance	\$6,462,498,816	5.3%	31,670	3.0%	\$2,248,221,696	5.9%
53 Real estate, rental, and leasing	\$12,442,369,024	10.2%	70,810	6.7%	\$2,112,347,264	5.5%
54 Professional, scientific, and technical services	\$5,293,267,968	4.3%	40,302	3.8%	\$2,413,937,408	6.3%
55 Management of companies	\$2,644,068,096	2.2%	12,366	1.2%	\$1,147,169,792	3.0%
56 Administrative and waste services	\$3,231,049,728	2.6%	56,684	5.3%	\$1,523,274,240	4.0%
61 Educational services	\$589,612,288	0.5%	10,996	1.0%	\$317,360,864	0.8%
62 Health and social services	\$4,504,817,152	3.7%	54,267	5.1%	\$2,250,874,880	5.9%
71 Arts, entertainment, and recreation	\$2,733,827,584	2.2%	61,320	5.8%	\$1,144,816,896	3.0%
72 Accomodation and food services	\$7,316,387,840	6.0%	116,456	11.0%	\$2,422,788,864	6.3%
81 Other services	\$4,111,477,504	3.4%	58,819	5.5%	\$1,484,820,864	3.9%
92 Government and non-NAICs	\$4,604,338,688	3.8%	9,560	0.9%	\$490,758,976	1.3%
Total	\$122,581,880,075	100.0%	1,063,482	100.0%	\$40,460,527,120	100.0%

Table 4. Top 10 States Ranked by Economic Output: 2006

	<i>Economic Output</i>	<i>Wildife Watchers</i>
California	\$7,861,784	6,270,000
Florida	\$5,483,887	4,240,000
Texas	\$5,199,313	4,225,000
Georgia	\$2,866,010	1,987,000
New York	\$2,744,957	3,852,000
Michigan	\$2,682,981	3,227,000
Pennsylvania	\$2,617,987	3,947,000
Washington	\$2,522,788	2,331,000
Colorado	\$2,498,650	1,819,000
Illinois	\$2,094,651	2,566,000



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State Impacts

Table 5 shows the economic impacts of wildlife-watching expenditures by state for 2006. U.S. totals are shown at the bottom of Table 4. State totals do not add up to U.S. totals because state impact figures show only those impacts which occur within the state. For example, a Bozeman, Montana sporting goods store may carry a brand of fishing tackle that is manufactured in Burlington, Vermont. When an angler purchases the fishing tackle, only a portion of the money is kept by the retailer in Montana. Part of the total selling price goes to the Vermont manufacturer. This transaction between the sporting goods store and the manufacturer (or wholesaler, depending on the situation) will not appear in the Montana state totals. However, the U.S. totals capture these interstate impacts.

Table 5. Total Wildlife-Watching Expenditures and Economic Impacts, State and National Totals: 2006

	<i>Retail Sales</i>	<i>Total Multiplier Effect</i>	<i>Salaries, Wages, and Business Owner's Income</i>	<i>Jobs</i>	<i>State and Local Tax Revenue</i>	<i>Federal Tax Revenue</i>
Alabama	\$450,004,000	\$763,019,969	\$261,145,268	10,157	\$59,073,791	\$56,999,666
Alaska	\$581,051,000	\$979,049,156	\$365,227,026	7,677	\$90,462,951	\$73,981,210
Arizona	\$838,307,000	\$1,417,593,023	\$497,597,606	15,251	\$118,656,059	\$112,152,584
Arkansas	\$607,073,000	\$962,498,578	\$318,312,411	13,054	\$85,419,561	\$68,251,298
California	\$4,179,583,000	\$7,861,783,545	\$2,898,324,047	71,589	\$694,071,367	\$661,980,117
Colorado	\$1,387,737,000	\$2,498,650,078	\$947,113,528	25,076	\$215,195,505	\$215,199,322
Connecticut	\$509,950,000	\$850,498,028	\$301,057,408	7,723	\$61,992,738	\$76,117,654
Delaware	\$130,832,000	\$202,985,060	\$76,694,358	1,975	\$19,534,585	\$17,091,820
Florida	\$3,081,496,000	\$5,483,886,801	\$1,968,928,284	54,699	\$441,174,660	\$469,231,344
Georgia	\$1,615,316,000	\$2,866,010,418	\$990,509,431	27,830	\$210,368,321	\$218,156,184
Hawaii	\$210,414,000	\$377,229,745	\$138,962,819	4,037	\$29,934,131	\$28,731,654
Idaho	\$265,383,000	\$443,322,880	\$149,546,066	5,903	\$35,209,977	\$30,692,944
Illinois	\$1,133,856,000	\$2,094,651,278	\$732,522,628	19,563	\$172,860,981	\$173,519,438
Indiana	\$933,920,000	\$1,592,654,298	\$534,963,380	18,382	\$127,643,050	\$117,403,879
Iowa	\$318,006,000	\$504,066,731	\$158,346,649	6,133	\$39,721,781	\$34,458,575
Kansas	\$156,185,000	\$261,312,911	\$86,121,213	3,254	\$20,595,630	\$18,457,552
Kentucky	\$542,059,000	\$876,589,835	\$308,469,670	10,463	\$76,106,481	\$67,004,906
Louisiana	\$312,430,000	\$528,585,799	\$174,990,553	7,149	\$35,656,732	\$32,641,998
Maine	\$865,643,000	\$1,363,283,289	\$449,075,022	15,790	\$109,088,901	\$95,276,497
Maryland	\$636,214,000	\$1,087,487,864	\$411,947,664	10,702	\$105,700,884	\$96,237,501
Massachusetts	\$754,963,000	\$1,323,102,012	\$493,832,193	12,782	\$118,794,668	\$119,220,099
Michigan	\$1,622,521,000	\$2,682,980,647	\$888,369,360	25,904	\$234,620,066	\$208,317,592
Minnesota	\$698,889,000	\$1,257,307,710	\$415,020,642	14,461	\$94,641,265	\$97,402,161
Mississippi	\$175,846,000	\$282,846,960	\$89,951,646	3,963	\$22,620,022	\$17,503,184
Missouri	\$869,075,000	\$1,533,269,199	\$492,836,686	18,247	\$113,984,610	\$110,201,665
Montana	\$376,451,000	\$628,626,746	\$213,352,389	9,772	\$49,978,388	\$49,134,259
Nebraska	\$141,910,000	\$237,121,387	\$84,048,964	2,800	\$20,308,619	\$17,147,832
Nevada	\$362,229,000	\$622,355,747	\$223,533,883	7,185	\$53,134,171	\$55,438,382
New Hampshire	\$273,920,000	\$433,069,336	\$138,169,255	4,493	\$34,005,945	\$36,000,943
New Jersey	\$537,449,000	\$937,971,380	\$333,688,184	9,591	\$74,972,349	\$82,542,184
New Mexico	\$297,174,000	\$517,789,189	\$175,613,450	6,926	\$45,582,882	\$34,331,148
New York	\$1,567,629,000	\$2,744,957,161	\$976,341,339	25,557	\$253,858,169	\$228,315,323
North Carolina	\$916,903,000	\$1,534,848,880	\$526,541,060	18,005	\$132,702,863	\$118,969,021
North Dakota	\$22,913,000	\$34,412,569	\$11,274,941	432	\$2,640,771	\$2,397,510
Ohio	\$1,187,703,000	\$1,959,067,364	\$641,229,996	22,527	\$161,039,630	\$135,181,453
Oklahoma	\$328,660,000	\$566,739,268	\$177,134,746	7,872	\$38,381,020	\$37,310,701
Oregon	\$776,414,000	\$1,356,918,545	\$502,803,677	16,185	\$123,668,107	\$119,329,180
Pennsylvania	\$1,442,681,000	\$2,617,987,223	\$880,311,154	27,066	\$198,669,207	\$201,839,913
Rhode Island	\$214,247,000	\$319,355,116	\$103,376,462	3,979	\$29,003,444	\$25,369,221
South Carolina	\$550,777,000	\$893,737,916	\$287,854,340	11,411	\$69,282,791	\$62,212,355
South Dakota	\$183,304,000	\$212,421,799	\$67,739,979	3,150	\$14,341,518	\$14,171,516
Tennessee	\$992,362,000	\$1,740,506,233	\$612,455,711	21,007	\$129,813,625	\$132,119,631
Texas	\$2,939,018,000	\$5,199,312,905	\$1,774,344,227	49,714	\$403,654,212	\$396,262,200
Utah	\$564,443,000	\$1,011,192,904	\$358,663,018	12,291	\$84,529,757	\$75,424,860
Vermont	\$122,872,000	\$193,752,874	\$65,167,085	2,639	\$16,187,164	\$14,721,048
Virginia	\$960,190,000	\$1,582,376,262	\$525,718,997	17,489	\$112,281,482	\$123,789,859
Washington	\$1,502,311,000	\$2,522,788,253	\$863,650,386	25,798	\$203,873,231	\$206,166,107
West Virginia	\$241,601,000	\$359,959,136	\$119,053,839	5,620	\$28,318,361	\$25,628,823
Wisconsin	\$744,689,000	\$1,239,245,783	\$411,909,759	17,166	\$111,142,639	\$91,313,320
Wyoming	\$394,869,000	\$618,782,924	\$212,420,021	8,797	\$52,158,264	\$47,427,972
United States, total	\$45,654,959,000	\$122,581,880,075	\$40,460,527,120	1,063,482	\$8,862,580,065	\$9,329,700,750

Summary

Wildlife-watching in the U.S. has significant economic impacts at the local, regional, state, and national levels. In 2006 it generated \$122.6 billion in economic output, 1.1 million jobs and \$18.2 billion in state, local, and federal tax revenues. Wildlife watching's continued popularity gives evidence to the importance that people attach to diverse, accessible and robust fish and wildlife populations.

The magnitude of its economic impacts prove that wildlife watching is a major force, driving billions in spending around the country. These economic impacts can be the life-blood of a local economy. Rural areas can attract thousands of wildlife watchers each year, generating millions of dollars.



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Sources

American Sportfishing Association. *Sportfishing in America: An Economic and Conservation Powerhouse*. Washington DC, 2008.

Association of Fish and Wildlife Agencies. *Hunting in America: An Economic and Conservation Powerhouse*. Washington DC, 2008.

MIG, Inc. *IMPLAN System (2004 Data and Software)*. 1940 South Greeley Street, Suite 101, Stillwater, MN 55082. 2004.

Miller, Ronald E. and Peter D. Blair. *Input-Output Analysis: Foundations and Extensions*. Englewood Cliffs NJ: Prentice-Hall, 1985.

Olson, Doug and Scott Lindall. *IMPLAN Professional Software, Analysis and Data Guide*. 1940 South Greeley Street, Suite 101, Stillwater, MN 55082. 1996.

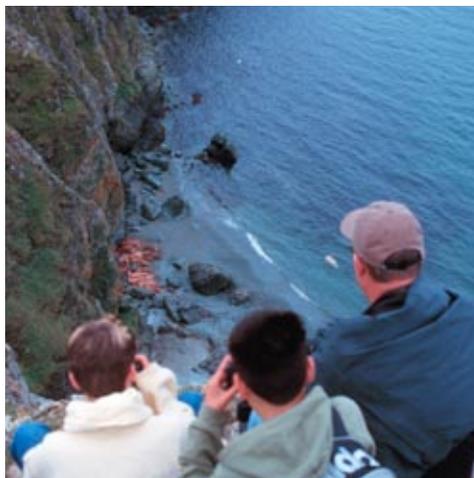
Taylor, Carol, Susan Winter, Greg Alward and Eric Siverts. *Micro IMPLAN User's Guide*. Fort Collins CO: U.S. Department of Agriculture – Forest Service, Land Management Planning Systems Group, 1993.

U.S. Department of the Interior, Fish and Wildlife Service and U.S. Department of Commerce, Bureau of the Census. *2006 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation*. Washington DC: U.S. Government Printing Office, October 2007.

U.S. Department of Commerce, Bureau of the Census. *1997 Economic Census*. Washington DC: U.S. Government Printing Office, April 2000.



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