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The Economic Contributions of Water-related Outdoor Recreation in Arizona

A Technical Report on Study Scope, Methods, and Procedures

Audubon Arizona



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Executive Summary

The economic contributions associated with outdoor recreation can be a powerful economic engine for communities across Arizona, generating additional spending, supporting and creating jobs, and building future investments in open spaces and recreational areas. Audubon Arizona commissioned a study of outdoor recreational activity on or along the water to estimate the level of participation in the state and the contributions from these activities to the county and state economies.

One of the motivations for this research effort was to update and expand upon previous research evaluating the economic contributions of outdoor recreation along the Colorado River and its tributaries (Southwick Associates, 2012). Arizona was one of the six states included in that effort. In the prior study, statewide estimated participation and the proportion of participation among the statewide adult population was reported. To provide a comparative measure, we report similar metrics in this report which reflect participation among Arizona residents only. Arizona's outdoor recreational community includes both state residents as well as those who travel to the state to enjoy all that the state has to offer. All economic contributions include activity-related spending by both residents and non-residents.

More than 1.5 million residents of Arizona take part in outdoor recreational activities on or along the water in the state, which equates to a participation rate of 28%. The three most popular activity are picnicking or relaxing (18%), trail related activities (12%), and fishing (11%). These residents spend 48.0 million days recreating outside on or along the water.

Table E1. Resident participation in water-based outdoor recreation in Arizona

	Participation rate among AZ population	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	6.5%	353.0	7,041.3
Camping	10.3%	562.6	3,049.8
Fishing	10.7%	583.9	4,226.8
Hunting & Shooting	3.0%	165.9	1,095.5
Picnicking or relaxing	18.2%	996.3	6,281.6
Snow Sports	1.0%	54.1	167.2
Trail Sports	12.5%	683.9	9,904.2
Water Sports	10.5%	576.7	6,781.9
Wildlife Watching	10.4%	570.7	9,459.0
All Activities	28.1%	1,539.1	48,007.4

Collectively, the retail spending by recreationists and the related multiplier effects generate an estimated \$13.5 billion in economic output and contributes \$7.1 billion to the state's GDP. Total contributions support 114,000 jobs that provided \$4.5 billion in households income and generated an estimated \$1.8 billion in tax revenues.

Table E2. Economic contributions of resident and non-resident water-based outdoor recreational activity in Arizona

Total contributions	Spending (millions)	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)
Bicycling	\$670.7	\$1,101.6	\$577.2	9,628	\$367.9	\$151.5
Camping	\$1,377.7	\$2,285.7	\$1,206.1	19,971	\$766.8	\$316.1
Fishing	\$591.9	\$1,037.3	\$521.8	7,620	\$313.5	\$134.0
Hunting & Shooting	\$105.6	\$181.7	\$97.4	1,716	\$59.3	\$23.4
Picnicking or relaxing	\$368.1	\$611.4	\$304.9	5,014	\$195.1	\$79.1
Snow Sports	\$266.2	\$459.2	\$251.3	4,102	\$159.3	\$65.5
Trail Sports	\$2,313.4	\$3,819.0	\$2,001.6	33,306	\$1,284.0	\$526.5
Water Sports	\$2,175.1	\$3,534.2	\$1,873.3	30,075	\$1,188.1	\$491.1
Wildlife Watching	\$276.7	\$461.1	\$222.1	2,704	\$124.6	\$52.1
All Activities	\$8,145.4	\$13,491.1	\$7,055.6	114,136	\$4,458.5	\$1,839.5

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Introduction

In 2018, Audubon Arizona commissioned a study to characterize outdoor recreation on or along waterways within Arizona. Part of the goal involved characterizing where the water-related outdoor recreation occurs; which waterbodies do people visit and what counties do they travel to for different activities. A second aim was to quantify this activity; what percentage of Arizona adults engage in this recreation, how many days do they recreate, and how much money does Arizona's outdoor community spend for these activities. Quantifying spending in this way enables estimation of the economic benefits of outdoor recreation on or along the water, which can be characterized by modelling the contributions of the activities on Arizona's economy.

In addition to details about where recreation occurs (and how much), there was an interest in understanding the ways in which people engage in these activities. To this end, recreationists in Arizona provided information (via survey) about who they participated with (friends, family, etc.), how far they typically travelled, and the importance of waterbodies to their outdoor recreation pursuits.

Scope of Study

The study focuses on outdoor recreation (defined by 9 activities) along waterways in Arizona. Only adults (aged 18 and older) are included, and these constitute both in-state and out-of-state residents for economic estimates and residents only for participation estimates¹. The results correspond to one year of recreation (2018), with all economic estimates reported in 2018 dollars.²

Activities under Study

Bicycling	Bicycling (cycling on paved road or off-road, skateboarding)
Camping	Camping (RV campsite, tent campsite, or at a rustic lodge)
Fishing	Fishing (recreational fly and recreational non-fly)
Hunting & Shooting	Hunting & shooting (shotgun, rifle, or bow)
Picnicking or relaxing	Picnicking or relaxing
Snow Sports	Snow sports (cross-country, downhill, telemark, snowboarding, snowshoeing)
Trail Sports	Trail sports (day-hiking on trail, backpacking, climbing ice or rock, mountaineering, horseback riding, running 3+ miles)
Water Sports	Water sports (swimming/canoeing/kayaking/rafting/paddle-boarding/boating)
Wildlife Watching	Wildlife-watching (viewing, feeding or photographing animals, bird watching)

¹ Note that participation estimates (participants and days) exclude non-residents because the 2018 AZ survey only included resident respondents. All economic estimates include both residents and non-resident expenditures (see Data & Methods for details).

² County-level and waterbody-specific economic estimates are based on the assumption that non-residents visited the same locations (and in the same proportions) as residents.

Data & Methods

The analysis is structured around estimating three sets of metrics: participation, spending, and economic contributions. **Participation** estimates for this study relied largely on two data sources to characterize outdoor recreation on or along the water. A 2016 general population survey ('OIA study') of all outdoor recreation in the U.S. provided a baseline for Arizona's state-level participation in the targeted outdoor recreational activities, including activity that took place away from water-bodies (OIA, 2017).³ The proportion and geographic distribution of these outdoor activities occurring along waterbodies was estimated using a second survey ('Arizona survey'), designed and implemented in the fall of 2018 as part of this study.⁴ The 2018 Arizona survey gathered data regarding rates of participation by activity and average days on or along the water per participant. Respondents were asked to exclude outings where the selected activity was not the primary purpose of the trip. This prevents overestimation due to double-counting for outings that serve multiple purposes (see OIA, 2017, p.6 for a more in-depth discussion).

Spending estimates are pegged to the OIA study estimates with adjustments for inflation and population changes. This approach enabled the 2018 Arizona survey to focus on participation levels and locations to inform the allocation of spending to the county-level.

Economic Contributions were estimated by combining spending estimates with data that models economic sector interactions in a given geography. Expenditure data was collected for different categories (e.g., groceries, fuel, equipment, etc.) as part of the OIA survey, which enabled allocation of spending to specific economic sectors. These data were then run through an IMPLAN™ model (Alward & Palmer, 1983) of the Arizona statewide economy using software produced by MIG, Inc. (see Appendix A for details). The resulting county-level and water-specific estimates reflect the contribution that outdoor recreation in those locales has on the statewide economy. Appendix A provides additional background information on economic contributions.

Estimation Procedure

The bulk of the analysis involved estimating participation and spending; performed in order of decreasing geographic extent, from statewide to waterbody-scale. For example, county-level days are estimated as a share of the total Arizona days. This approach ensured that estimates sum appropriately across the various dimensions while also maximizing sample sizes for estimates at each dimension. The data sources used for these estimates are outlined in Table 1.

³ Note that the 2016 OIA survey in turn relied upon the 2011 National Survey of Fishing, Hunting, and Wildlife Watching to characterize participation and spending for those three activities (U.S. Fish & Wildlife Service, 2011).

⁴ The estimates reported here are lower than the corresponding OIA estimates due to the narrower scope of recreation along waterways. All 2016 participation rates were assumed to have remained unchanged since 2016, but participant counts were updated to reflect population changes. The state-level study also includes one activity (picnicking) that was not part of the 2016 OIA study.

Table 1. Data Sources with Abbreviations Referenced in Procedures

Abbreviation	Description
AZ Svy	Data from the 2018 Arizona survey
Census	Most recently available US Census Data of the Arizona resident population (Glenn, 2018)
CPI	Annual Inflation using consumer price indices (Federal Reserve Bank of Minneapolis)
OIA	Data from the 2016 OIA survey (OIA, 2017)
Retail Trade	By-county retail trade sales, pages 31-46 of 2018 annual report (AZ Dept. of Revenue, 2018)
USFWS	The USFW National Survey is used in the place of the OIA survey for fishing, hunting, and wildlife watching (U.S. Fish & Wildlife Service, 2011).

The estimation procedure is documented below with a set of equations. Many of the variables represent arrays (multiple values), with dimensions denoted by subscripts. For example, the subscript “A” refers to the activity dimension; a variable such as *svyRate_A* contains one value for each activity. These multi-value profiles are provided in Appendix B.

Statewide along the Water

Estimating participation and spending on or along waterways relies upon first estimating these metrics for the entire state. The 2018 Arizona survey represented the most recently available source of data on water-related outdoor recreation in Arizona and was therefore used preferentially for reporting participation. However, because this was not a general population survey, overall participation estimates still relied upon the OIA survey estimates for scaling to the entire population. The target population of the Arizona survey included adult Arizona resident outdoor recreation participants, and the percentage of these participants in the population at large was estimated using the OIA survey.

Participation (Arizona resident-only⁵ adults): for each activity A:

$$Part_A = Pop \times tgtRate \times svyRate_A \times waterRate_A$$

Pop: Population of Arizona residents over 18 in 2018 (Census) = 5.47 million⁶

tgtRate: % of Survey Target Population engaging in at least one activity (OIA) = 44.2%

svyRate: % of Survey Respondents who engaged in the activity (AZ Svy)

waterRate: % of Participants who recreated along the water (AZ Svy)

$$Days_A = Part_A \times avgDays_A \times waterShare_A$$

avgDays: Average number of days per participant (AZ Svy)

waterShare: Share of activity days spent along the water (AZ Svy)

⁵ Only residents were included in the 2018 AZ survey, so non-resident participation estimates were excluded.

⁶ The 2018 population count was not available at the time of this analysis and was therefore estimated using a linear trend from 2011 to 2017 (+1.61% per year).

Spending (both residents and non-residents): for each activity A:

$$Spend_A = Spend_{2016_A} \times cpiAdjust \times popAdjust \times waterRate_A \times waterShare_A$$

$$Spend_{PICNIC} = Days_{PICNIC} \times avgSpend_{PICNIC}^7$$

Spend2016: Arizona outdoor recreation spending in 2016 (OIA, USFWS)

cpiAdjust: Inflation adjustment, 2016 to 2018 (CPI) = 1.044 (i.e., +4.4%)

popAdjust: Population change adjustment, 2016 to 2018 (Census) = 1.032 (i.e., +3.2%)

avgSpend_{PICNIC}: Average spending per primary day of picnicking (AZ Svy) = \$59

County-level along the Water

The 2018 Arizona survey included questions about participation in specific counties. Because respondents also indicated their county of residence, we could determine what portion of their activity occurred in “home” (county of residence) vs. “away” counties. This distinction was meaningful due to sample size constraints. Most Arizona counties contain a tiny share of the state’s population, and corresponding survey sample sizes were small (Figure 1). By applying a regional aggregation, we were able to estimate home county participation rates for every county.⁸ The simplifying assumption of this aggregation is that home participation rates don’t vary substantially across counties within a region.

Figure 1. Regional Aggregation for Home County Estimates

Counts of respondents by county of residence are displayed alongside county names.



⁷ Because picnicking was not part of the OIA study, picnic spending questions were added to the 2018 AZ survey.

⁸ This regional aggregation was informed by a study on impacts of travel to Arizona (Dean Runyan Associates, 2018). Fewer regional groups were used in this study in order to achieve sufficient sample sizes.

Away County Participation: for each activity A and county C:

The away county estimation is straightforward. Because every respondent had the opportunity to visit every Arizona county, the participation rates (and days share) are estimated at the state level (i.e., these don't need to be estimated separately by region of residence). The procedure is therefore one of directly allocating statewide results to individual counties.

Estimating at the state-level:⁹

$$awayPart_A = Part_A \times awayRate_A$$

$$awayDays_A = Part_A \times awayShare_A$$

awayRate: % of Participants who recreated in another county (AZ Svy)

awayShare: Share of Days spent in away counties (vs home) (AZ Svy)

Estimating at the county-level:

$$awayPart_{AC} = awayPart_A \times awayRateCnty_{AC}$$

$$awayDays_{AC} = awayDays_A \times awayShareCnty_{AC}$$

awayRateCnty: % of Away Participants who recreated in each county (AZ Svy)

awayShareCnty: Share of Away Days spent in each county (AZ Svy)

Home County Participation: for each activity A, county C, and region R:

The home county estimation essentially involves a repeat of the statewide estimation, but using regional-level profiles, county-level populations, and a final adjustment to ensure correct scaling to statewide results (i.e., these get pegged to relevant statewide totals)¹⁰.

$$homePart_{AC} = Pop_C \times tgtRate \times svyRate_{AR} \times waterRate_{AR} \times homeRate_{AR} \times partAdjust_A$$

homeRate: % of Participants who recreated in their home county (AZ Svy)

partAdjust: Adjustment factor to ensure county participants scale to state-level (AZ Svy)

$$homeDays_{AC} = homePart_{AC} \times avgHomeDays_{AR} \times daysAdjust_A$$

avgHomeDays: Average number of home county days per participant (AZ Svy)

daysAdjust: Adjustment factor to ensure county days scale to state-level (AZ Svy)

⁹ Note that statewide "home" county participation is estimated using the same method, which is necessary for alignment of the regional-level estimates to the statewide results.

¹⁰ Final county-level results consist of the sum of corresponding "away" and "home" estimates.

County Spending: for each activity A and county C:

Spending was allocated to counties differently depending on whether the dollars spent were for trip-related (food, fuel, etc.) or equipment (gear, vehicles, etc.) expenses. For trip spending, the county allocation was based on each county's share of total activity days, estimated using the 2018 Arizona survey. Equipment spending tends to occur closer to where people live, although this is complicated by the availability of retail outlets; the concentration of available shopping locations is not evenly distributed within the state. To capture the geographic distribution of equipment expenditures, we estimated the share of retail sales for each county using the most recent report on annual retail tax collections in Arizona counties (AZ Dept. of Revenue, 2018).

$$tripSpend_{AC} = Spend_A \times tripShare_A \times daysShareCnty_{AC}$$

$$equipSpend_{AC} = Spend_A \times (1 - tripShare_A) \times retailShareCnty_C$$

tripShare: Share of total spending going toward trip expenses (OIA, USFWS)

daysShareCnty: Share of Arizona Days spent in each county (AZ Svy)

retailShareCnty: Share of Arizona retail trade occurring in each county (Retail Trade)

Individual Waterbodies

Survey respondents also indicated which specific waterbodies they participated upon or along. Based on these responses we estimated participants and days for each waterbody statewide, as well as for each county.

Participation by County: for each waterbody W and county C:

$$Part_{CW} = Part_C \times partRate_{CW}$$

$$Days_{CW} = Days_C \times daysShare_{CW}$$

partRate: % of Participants in a county who visited the waterbody (AZ Svy)

daysShareCnty: Share of County Days spent in each waterbody (AZ Svy)

Participation in Arizona: for each waterbody W:

Survey respondents were limited in which waterbodies they could identify (typically four options per county). For those waterbodies only available in a single county the state-level and county level participation results are the same. Waterbodies selectable in multiple counties relied on state-level estimates for the statewide results by waterbody. Statewide days by waterbody was set to the sum across counties in all cases.

$$Part_W = Part \times partRate_W$$

Economic Contributions

The spending estimates provided the basis for estimating economic contributions. For each activity, spending was allocated to economic sectors available in the input-output model (see Tables 18-21 in Appendix B for expenditures by category). By running the IMPLAN™ model, we were able to estimate economic contributions for each activity in Arizona as a whole. These statewide contributions were then allocated to counties relative to the proportion of spending in each county. Note that economic contributions were run separately for trip and equipment spending. This enabled county-level allocations using the county share of days (for trip spending) and share of retail income (for equipment).

Economic Contributions: for each activity A and county C:

$$tripEcon_{AC} = tripEcon_A \times daysShareCnty_{AC}$$

$$equipEcon_{AC} = equipEcon_A \times retailShareCnty_C$$

AZ Survey of Outdoor Recreation along the Water

This study aimed to characterize all outdoor recreation on or along waterways in Arizona. Rather than fielding a general population survey of Arizona residents, we partly relied upon a recent national survey that characterized participation rates and spending profiles for outdoor recreationists (OIA, 2017). The OIA survey can be filtered to focus only on those Arizona residents who participated in at least one of the activities of interest, serving as a baseline for the target population of the 2018 Arizona survey.

The Arizona survey instrument consisted of a questionnaire designed with input from Audubon Arizona. It was designed to be taken online and was focused upon characterizing outdoor recreation on or along waterways by Arizona residents. Respondents were asked about their participation on nine activities in the state as a whole, as well as which counties they visited and which waterbodies they participated in or along. The survey was administered by Southwick Associates in the Fall of 2018. The full text of the questionnaire is included in Appendix C.

Population, Frame, and Survey Sample

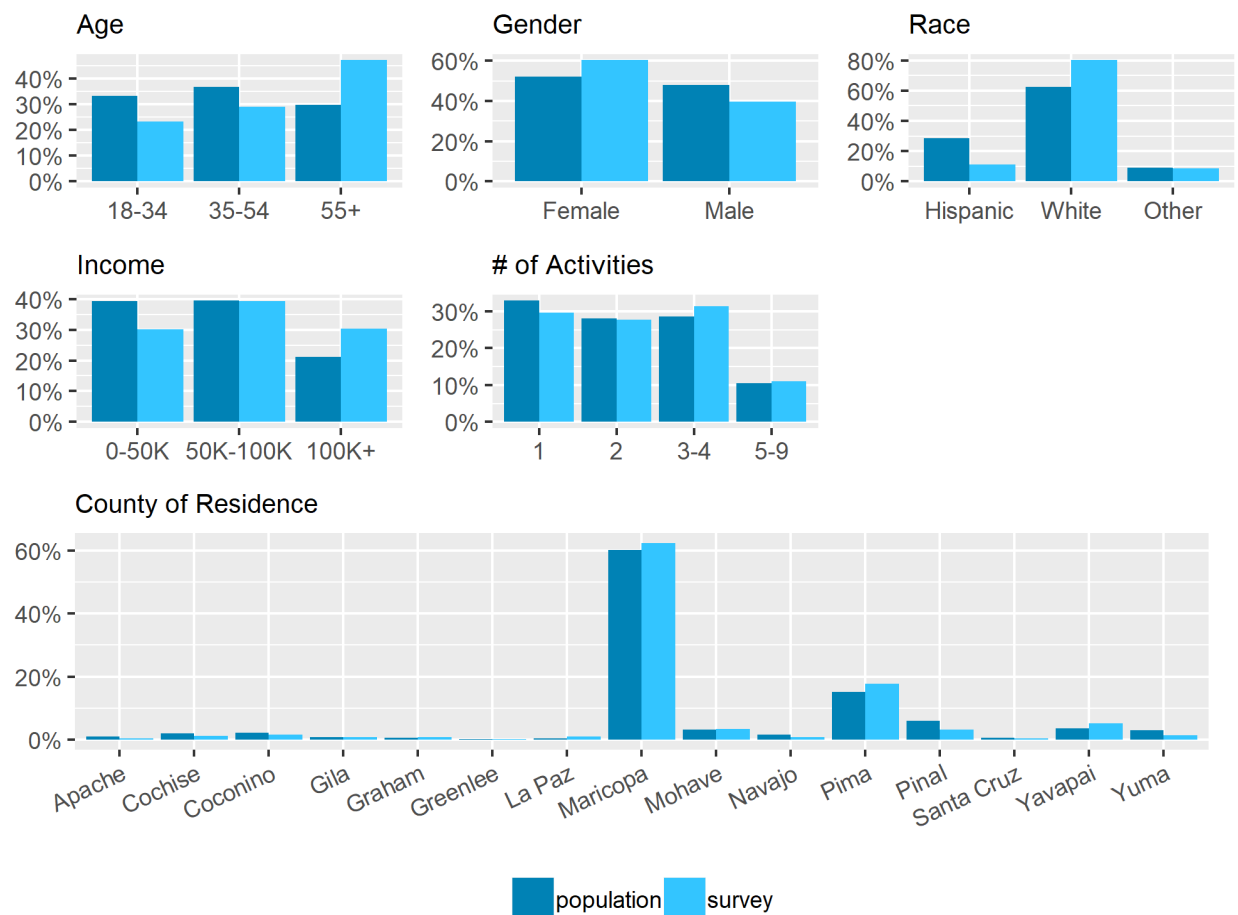
The target population for the 2018 Arizona survey consists of all AZ adult residents who participated in the past year in at least one of the activities of interest. The demographic profile of outdoor recreationists in Arizona was taken from a recent survey of outdoor recreation (OIA, 2017). The OIA study is the best source of information about the demographic makeup of outdoor recreationists in Arizona. An outdoor enthusiast panel, provided by SSI, represented the sampling frame from which the 2018 Arizona survey sample was obtained. This sample consisted of 1,155 Arizona residents who responded to the survey. Of these, 1,083 responses were considered sufficiently complete and reliable for inclusion in the analysis.

Arizona Survey Weighting

The Arizona survey included a set of demographic questions to gauge how well the survey respondents represent the target population. Additionally, we constructed a variable counting the number of activities in which each respondent engaged; testing our assumption that an outdoor enthusiast panel would skew toward higher avidity. A comparison of the population and survey sample across these characteristics is included in Figure 2. The results show modest divergence from the target population.¹¹

The final sample was weighted on these six characteristics in order to mitigate bias in the Arizona survey sample with the OIA study serving as the benchmark for weighting. Rake weights were estimated using the R package *anesrake* (Pasek, 2018; R Core Team, 2018). The resulting weights ranged from 0.14 to 8.27, with a standard deviation of 0.79.

Figure 2. Demographic Distributions for Survey Respondents vs. Target Population



¹¹ Note that county of residence couldn't be determined from the OIA data source used to characterize the target population. We made a simplifying assumption that the county-level distribution of outdoor recreationists matches that of the Arizona population, obtained from the US Census (Glenn, 2018).

Results

Participation

It is important to note that one of the motivations for this research effort was to update and expand upon previous research evaluating the economic contributions of outdoor recreation along the Colorado River and its tributaries (Southwick Associates, 2012). Arizona was one of the six states included in that effort. In this previous study, statewide estimated participation and the proportion of participation among the statewide adult population was reported. To provide a comparative measure, we estimate and report similar metrics in this report which reflect participation among Arizona residents only. Arizona's outdoor recreational community includes both state residents as well as those who travel to the state to enjoy all that the state has to offer. All economic contributions reported in the section to follow include activity-related spending by both residents and non-residents.

More than 1.5 million residents of Arizona take part in outdoor recreational activities on or along the water in the state, which equates to a participation rate of 28% (Table 2). The three most popular activities are picnicking or relaxing (18%), trail related activities (12%), and fishing (11%). These residents spend 48.0 million days recreating outside on or along the water.

Table 2. Participation in selected outdoor recreational activity on or along the water, by county (Arizona residents only)

	Participation rate among AZ population	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	6.5%	353.0	7,041.3
Camping	10.3%	562.6	3,049.8
Fishing	10.7%	583.9	4,226.8
Hunting & Shooting	3.0%	165.9	1,095.5
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Snow Sports	1.0%	54.1	167.2
Trail Sports	12.5%	683.9	9,904.2
Water Sports	10.5%	576.7	6,781.9
Wildlife Watching	10.4%	570.7	9,459.0
All Activities	28.1%	1,539.1	48,007.4

Note: The sum of Arizona residents by activity is greater than the total across all activities because people engage in multiple outdoor activities.

Respondents were asked to report participation at three geographic levels; the state of Arizona, individual counties, and individual waterbodies. Rather than depend entirely on respondent recall for identifying waterbodies, respondents were presented with a set of three (or four) known options for the selected county and prompted to identify how many days they participated on or along each. Additionally, respondents were asked to enumerate days they participated on or along "any unnamed waters" and report the names of any corresponding waterbodies. Table 3 shows the list of commonly

known waterbodies in the state; sorted based on the number of people recreating outdoors in those locations. Although recreational activity takes place at waterbodies all across the state, over half of participants identified participating on Salt River and Gila River.

At the state-level, an estimated 861,000 people spend time on “unnamed waterbodies” which are either lesser known, unnamed, or the name is unknown to them. It is important to note that this estimate is based on the survey of Arizona residents which captured data at the county-level and because this is an option across all counties the estimate constitutes a significant proportion of people at the aggregated state-level. This is not the case at the county-level. Within each county, the majority of recreationists are estimated to visit the well-known waterbodies. Detailed county-level results are provided in Appendix E. A small fraction of respondents did provide write-in names of their waterbody visited. A full list of those waterbodies is provided in Appendix D.

Table 3. Participation in outdoor recreation, by waterbody within the state (Arizona residents only)

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	1,539.1	48,007.4
Salt River and lakes /reservoirs along Salt River	519.1	6,039.1
Gila River	447.1	3,979.3
Agua Fria River and Lake Pleasant	392.1	3,487.4
Oak Creek	274.3	3,685.1
Santa Cruz Lake/River	178.2	1,262.5
Colorado River and Grand Canyon	161.9	1,212.3
Fossil Creek	143.7	557.3
Big Lake	134.3	849.4
Lake Powell	129.4	1,105.3
San Pedro River	129.4	521.9
Woods Canyon Lake	126.3	667.1
Sabino Creek	125.1	1,394.9
Colorado River and lakes /reservoirs/wildlife refuges along Colorado River	124.0	2,856.1
Roosevelt Lake	107.9	589.0
Verde River	104.4	686.7
Rose Canyon Lake	99.4	722.8
Little Colorado River	97.8	469.4
Lake Havasu and other lakes/reservoirs/wildlife refuges along Colorado River	94.7	1,593.4
Christopher Creek	94.4	360.1
Black River	91.3	273.9
Black Canyon	62.7	378.3
Bill Williams and Alamo Lake	61.1	349.8
Parker Canyon Lake	52.9	294.3

Patagonia Lake State Park	49.8	236.2
Fool Hollow Lake	48.7	367.6
Whitewater Draw	40.8	128.7
Pena Blanca Lake	38.9	131.5
Lake Mead	34.9	257.1
Sonoita Creek	30.7	95.9
Silver Creek	30.3	287.1
Roper Lake	20.7	94.4
Aravaipa Canyon Wilderness	20.7	112.0
Ackre Lake	17.9	37.5
Blue Lake/River	14.0	24.3
San Francisco River	12.5	63.8
Any unnamed waters	861.6	12,835.6

Expenditures

Outdoor recreators make expenditures on a number of trip-related and equipment items. Trip-related items are similar across all types of activities and can include fuel, food, admission fees, and lodging. The types of equipment purchases are specific to the type of activity. Anglers purchase items such as rods, reels, lines and lures while hikers purchase items such as apparel, boots, and other accessories.

Table 4 shows the total estimated spending by activity among both resident and non-residents who recreate outdoors in Arizona. Outdoor recreators spend more than \$8.1 billion inside Arizona; money which continues to cycle through the economy and generate additional economic activity. Spending on trail sports and water sports each constitute more than one quarter of total spending. At the county-level, the largest portion of state-level spending is estimated to occur in Maricopa County (\$3.2 billion or 40%). County specific estimates of spending are included in Appendix E.

Table 4. Spending by outdoor recreationists toward their water-based activity in the county

	Spending (millions)
Bicycling	\$670.7
Camping	\$1,377.7
Fishing	\$591.9
Hunting & Shooting	\$105.6
Picnicking or relaxing	\$368.1
Snow Sports	\$266.2
Trail Sports	\$2,313.4
Water Sports	\$2,175.1
Wildlife Watching	\$276.7
All Activities	\$8,145.4

Economic Contributions

The direct spending made by outdoor recreators (Table 4) generates economic contributions within the state and local economy. It also continues to cycle through the economy generating additional rounds of spending by businesses who provide supporting services and goods to these outdoor recreators. The total economic contributions reflect the collective effect of the direct retail spending as well as the multiplier effect. The multiplier effect consists of additional rounds of spending which occurs as a result of the direct retail spending and includes two components; indirect and induced. The indirect effect results from spending made by those businesses where consumers spent money (e.g., an outdoor equipment retailer buying additional inventory). The induced effect results from spending made by employees of those businesses (e.g., a person buying groceries, clothing, etc., from income earned as a sales associate in an outdoor retailer).

Table 5 shows the economic contributions associated with retail spending by outdoor recreators. Five types of economic activity are measured:

Output: This measure reports the volume of economic activity within the local economy that is related to outdoor recreation. Because it does not discount the value of raw materials as they move through the production of goods or services, this measure double-counts a portion of the output of the industries in the value chain.

GDP: This represents the total “value added” contribution of economic output made by the industries involved in the production of outdoor recreation goods and services. For a given industry, value added equals the difference between gross output (sales and other income) and intermediate inputs (goods and services imported or purchased from other industries). It represents the contribution to GDP in a given industry for production related to outdoor recreation. Unlike the measure of output, this metric accounts for the flow of materials through the value chain to avoid the potential for double-counting.

Jobs: This figure reports the total jobs in all sectors of the economy as a result of the outdoor recreational activity and includes both full-time and part-time jobs. These are not just the employees directly serving recreators or manufacturing their goods but can also include employees of industries impacted by the direct, indirect and induced effects.

Wages: This figure reports the total salaries and wages paid in all sectors of the regional economy as a result of outdoor recreational activities. These are not just the paychecks of those employees directly serving recreators or manufacturing their goods, it also includes portions of the paychecks of all employees affected by the direct, indirect and induced effects. For example, it would include a portion of the dollars earned by the truck driver who delivers food to the restaurants serving recreators and the accountants who manage the books for companies down the supply chain, etc.

Tax Revenue: Including all forms of personal, business and excise taxes, the IMPLAN model estimates the tax revenues collected by the local, state and federal governments as a result of the initial expenditures by outdoor recreators.

Direct retail spending by residents and non-residents recreating outdoors in Arizona generates an estimated \$7.3 billion in economic output and contributes \$3.7 billion to the state's GDP (Table 5). It also supports 72,000 jobs that provide \$2.5 billion in household income and generate an estimated \$1.1 billion in tax revenues. Collectively, the retail spending by recreationists and the related multiplier effects generate an estimated \$13.5 billion in economic output and contributes \$7.1 billion to the state's GDP. Total contributions support 114,000 jobs that provide \$4.5 billion in households income and generate an estimated \$1.8 billion in tax revenues.

Table 5. Economic contributions of water-based outdoor recreation, by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$592.6	\$302.7	6,179	\$206.7	\$45.4	\$44.0
Camping	\$1,228.5	\$634.0	12,793	\$430.9	\$95.1	\$91.5
Fishing	\$582.5	\$273.5	4,581	\$167.2	\$39.2	\$38.1
Hunting & Shooting	\$101.6	\$53.5	1,167	\$33.6	\$7.7	\$5.8
Picnicking or relaxing	\$334.0	\$157.9	3,152	\$108.5	\$23.6	\$22.3
Snow Sports	\$244.6	\$133.7	2,630	\$90.6	\$20.1	\$18.8
Trail Sports	\$2,054.8	\$1,051.3	21,312	\$724.4	\$157.9	\$153.2
Water Sports	\$1,914.0	\$995.8	19,081	\$672.8	\$148.6	\$143.4
Wildlife Watching	\$276.4	\$120.7	1,478	\$64.8	\$16.1	\$12.5
All Activities	\$7,328.9	\$3,723.1	72,372	\$2,499.4	\$553.7	\$529.7
Total contributions						
Bicycling	\$1,101.6	\$577.2	9,628	\$367.9	\$83.7	\$67.8
Camping	\$2,285.7	\$1,206.1	19,971	\$766.8	\$175.0	\$141.1
Fishing	\$1,037.3	\$521.8	7,620	\$313.5	\$74.0	\$60.0
Hunting & Shooting	\$181.7	\$97.4	1,716	\$59.3	\$13.8	\$9.6
Picnicking or relaxing	\$611.4	\$304.9	5,014	\$195.1	\$44.1	\$35.0
Snow Sports	\$459.2	\$251.3	4,102	\$159.3	\$36.5	\$29.0
Trail Sports	\$3,819.0	\$2,001.6	33,306	\$1,284.0	\$290.7	\$235.8
Water Sports	\$3,534.2	\$1,873.3	30,075	\$1,188.1	\$271.2	\$219.9
Wildlife Watching	\$461.1	\$222.1	2,704	\$124.6	\$30.3	\$21.8
All Activities	\$13,491.1	\$7,055.6	114,136	\$4,458.5	\$1,019.4	\$820.1

How People Recreate along Waterways

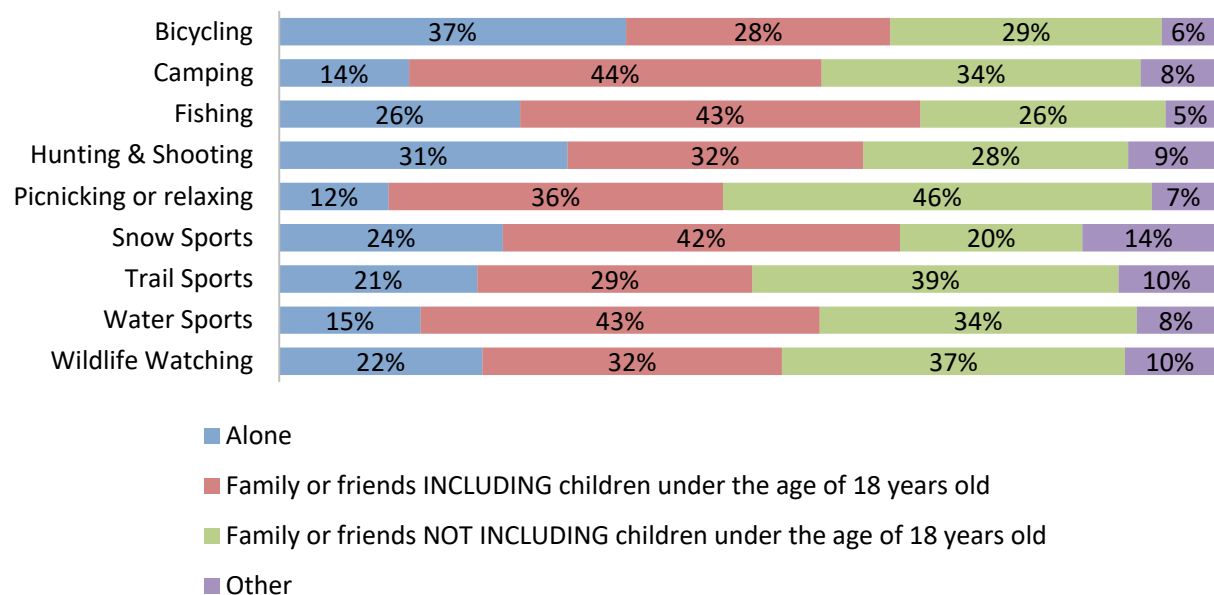
In addition to participation levels gathered through the survey of Arizona residents, we explored four other areas of interest:

- who do people recreate with?
- how far do they travel to recreate by the water?
- how much does water influence their enjoyment of outdoor recreation?
- how much would their activity decrease if they were not able to recreate on or along the water?

When Arizona residents recreate outdoors, they typically do not do so alone (Figure 3). The majority of people go out with family or friends, regardless of the type of activity. Camping, fishing, snow sports, and trail sports are more likely to include groups with children under the age of 18 while picnicking and relaxing are more likely to include groups of adults. People are more likely to recreate alone when they go out bicycling or hunting & shooting activities.

Figure 3. Who do people recreate with?

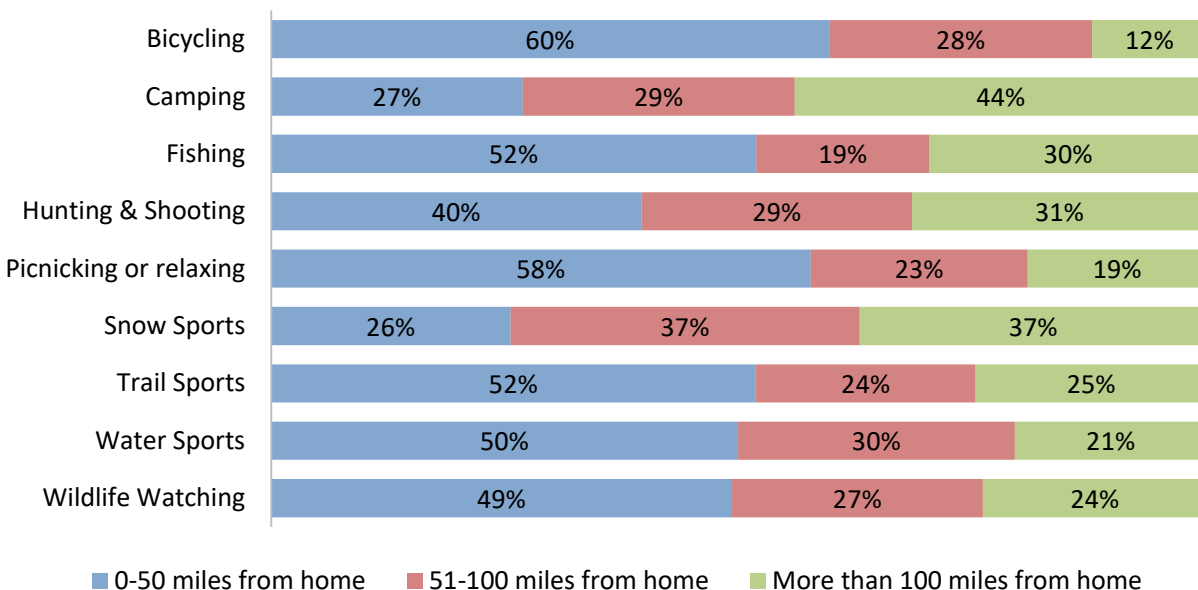
Over these past twelve months (between September 1, 2017 and August 31, 2018), what percent of your [activity] days on or near water were spent by yourself or with others?



With the exception of camping and snow sports activities, people most commonly recreate within 50 miles from home (Figure 4). People going camping or skiing are more likely to be traveling more than 100 miles away from home, relative to the other activities.

Figure 4. Distance traveled from home

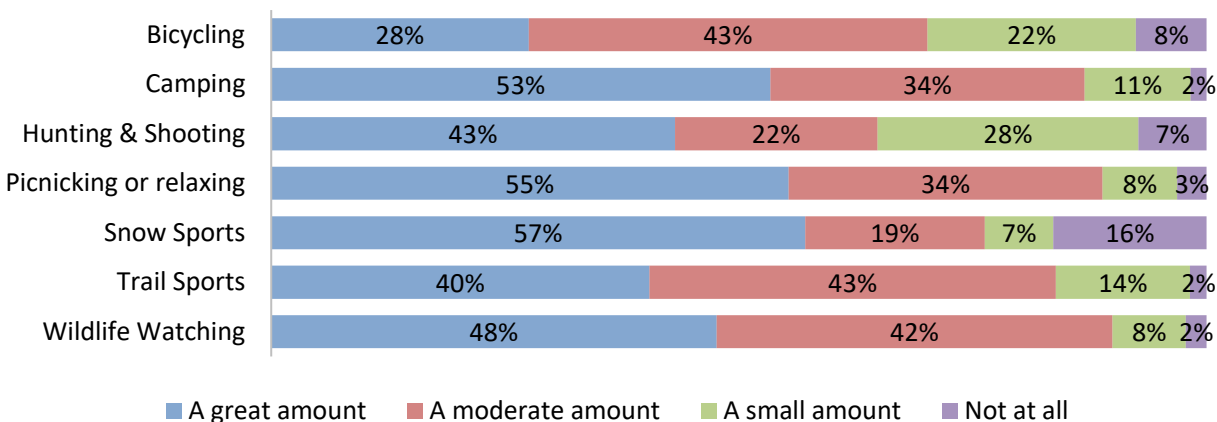
Over these past twelve months (between September 1, 2017 and August 31, 2018), what percent of your [activity] days on or near the water were spent at the following distances from home?



The majority of Arizona residents who recreate outdoors indicate that the presence of water contributes a moderate to a great amount of enjoyment to the experience (Figure 5).

Figure 5. Influence of the presence of water on enjoyment.

How much does the presence of water add to your enjoyment of [activity]?

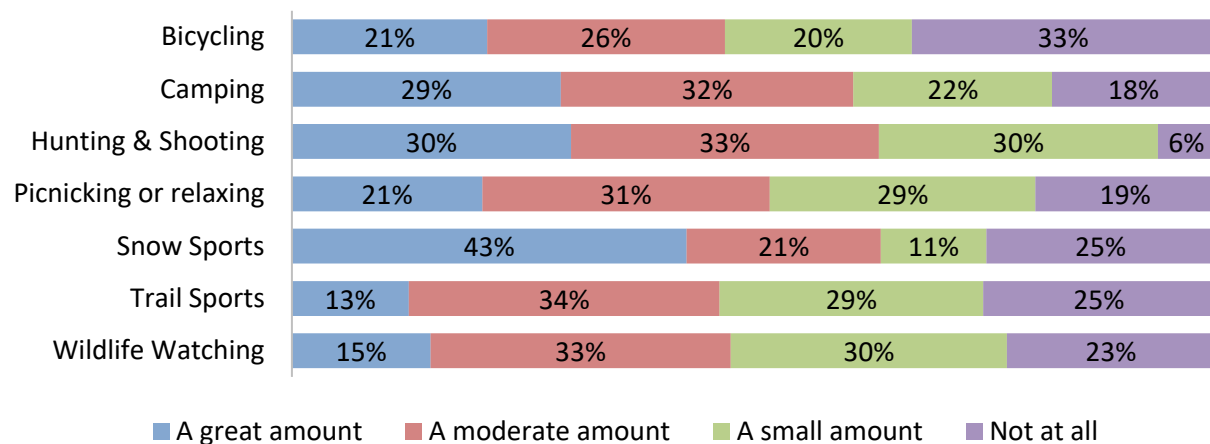


Note: People who participate in fishing and water sports were not asked to complete this question.

Lastly, across most activity types, the largest proportion of people say that their activity would decrease very little or not at all if they were not able to recreate on or along the water (Figure 6). The one exception occurs among people who take part in snow sport activities. The largest proportion among this particular group indicates that their participation would decrease by a great amount if they were not able to ski on or along the water.

Figure 6. Change in activity if participation could not take place on or along the water.

If you were not able to participate in [activity] on or along the water, how much would your total activity decrease?



Note: People who participate in fishing and water sports were not asked to complete this question.

Putting the Results into Perspective

This study presented large aggregated metrics at a scale beyond the experience of most individuals. To provide a sense for the magnitude of these results, we have assembled a handful of comparison numbers that are more relatable for a typical person (e.g., well-known industries) and/or provide context for how outdoor recreation fits into the overall picture (e.g., participant vs population counts).

Water-related compared to all Outdoor Recreation in Arizona

- 63% of outdoor recreationists in Arizona recreate on or along the water.
- 37% of the days people recreate in Arizona are spent primarily on or along the water.
- 44% of outdoor recreation expenditures are made primarily for activity on or along the water.

Participant vs. Population Counts

An estimated 28% (1.5 million) of Arizona's adult population participate in water-related outdoor recreation. Water-related outdoor recreationists in Arizona are:

- approximately equal to the entire population of Phoenix (1.6 million)
- approximately equal to the entire number of people employed by Walmart in the U.S. (1.5 million).

Comparing Economic Contributions to other Industries in Arizona

Expenditures for water-related outdoor recreation represent 1.1% (\$3.7 billion) of the state's GDP of \$326 billion in 2017 (Bureau of Economic Analysis, 2019)¹². Comparatively, water-based outdoor recreation as an industry ranks higher than mining and golfing, coming in just below agribusiness in terms of direct GDP to the state.

Table 6. Comparison of Economic Contributions to other industries

Industry	Direct GDP (\$billions)	Total Output (\$billions)	Estimate Year	Source
Water-related Outdoor Recreation	3.7	13.5	2018	Current Study
Mining	1.2	10.2	2017	(Arizona Mining Association, n.d.)
Agribusiness	4.3	23.3	2014	(Bickel et al., 2017)
Golf	1.0	3.9	2014	(Duval et al., 2016)

¹² Direct GDP represents the value added (i.e., final sales minus intermediate costs) for the economic sectors of interest. Because outdoor recreation does not correspond to a NAICS-defined economic sector (North American Industry Classification System), spending for these activities spans multiple NAICS sectors, including retail, food services, transportation, etc. NAICS sector outdoor recreation breakouts for the U.S. are available at the website for the Bureau of Economic Analysis: <https://www.bea.gov/data/special-topics/outdoor-recreation>

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Appendix A – Definitions for Economic Contributions

Economic benefits can be estimated by two types of economic measures: economic contributions and economic values. An economic contribution addresses the business and financial activity resulting from the use of a resource. Economic value, on the other hand, is a non-business measure that estimates the value people receive from an activity after subtracting for their costs and expenditures. This concept is also known as consumer surplus.

There are three types of economic contribution: direct, indirect and induced. A **direct contribution** is defined as the economic contribution of the initial purchase made by the consumer (the original retail sale). **Indirect contributions** are the secondary effects generated from a direct contribution, such as the retailer buying additional inventory, and the wholesaler and manufacturers buying additional materials. Indirect contributions affect not only the industry being studied, but also the industries that supply the first industry. An **induced contribution** results from the salaries and wages paid by the directly and indirectly affected industries. The employees of these industries spend their income on various goods and services. These expenditures are induced contributions, which, in turn, create a continual cycle of indirect and induced effects.

The direct, indirect and induced contribution effects sum together to provide the overall economic contribution of the activity under study. As the original retail purchase (direct contribution) goes through round after round of indirect and induced effects, the economic contribution of the original purchase is multiplied, benefiting many industries and individuals. Likewise, the reverse is true. If a particular item or industry is removed from the economy, the economic loss is greater than the original lost retail sale. Once the original retail purchase is made, each successive round of spending is smaller than the previous round. When the economic benefits are no longer measurable, the economic examination ends.

The economic contributions from outdoor recreation, both direct effects and total effects, were estimated with an IMPLAN input-output model for the state and regional economies of Arizona, and the county economies for hunting economic contributions. The IMPLAN model was developed by MIG, Inc. originally for use by the U.S. Forest Service. Inherent in each IMPLAN model is the relationship between the economic output of each industry (i.e. sales) and the jobs, income and taxes associated with a given level of output. Through those models, it is possible to determine the jobs, income and taxes supported directly by outdoor-based recreationists with and without the multiplier effects.

Input-output models describe how sales in one industry affect other industries. For example, once a consumer makes a purchase, the retailer buys more merchandise from wholesalers, who buy more from manufacturers, who, in turn, purchase new inputs and supplies. In addition, the salaries and wages paid by these businesses stimulate more benefits. Simply, the first purchase creates numerous rounds of purchasing. Input-output analysis tracks the flow of dollars from the consumer through all of the businesses that are affected, either directly or indirectly.

To apply the IMPLAN model, each specific expenditure for outdoor recreation activities was matched to the appropriate industry sector affected by the initial purchase. The spending was estimated with models of the Arizona economy, therefore all of the resulting contributions represent salaries and wages, total economic effects, jobs and tax revenues that occur within the state of Arizona.

Estimating Tax Revenues

The IMPLAN model estimates detailed tax revenues at the state and local level and at the federal level. The summary estimates provided in this report represent the total taxes estimated by the IMPLAN model including all income, sales, property and other taxes and fees that accrue to the various local, state and federal taxing authorities.

Appendix B – Estimation Profiles

All tables reported in this section correspond to array estimates described in the Estimation Procedure subsection of Data & Methods (which includes definitions for each variable displayed in these tables).

Table A 1. Statewide Profiles – by Activity (AZ 2018 survey; OIA, 2017; USFWS, 2011)

Activity	svyRate	waterRate	avgDays	waterShare	Spend2016
Bicycling	36%	41%	34.1	58%	\$2,624,212,328
Camping	34%	69%	7.9	69%	\$2,688,193,299
Fishing	24%	100%	7.2	100%	\$549,308,122
Hunting & Shooting	20%	34%	9.1	73%	\$395,189,964
Picnicking or relaxing	61%	67%	11.8	53%	NA
Snow Sports	6%	35%	4.8	64%	\$1,106,646,900
Trail Sports	51%	56%	24.0	60%	\$6,378,588,969
Water Sports [^]	34%	70%	22.3	53%	\$2,018,442,285
Wildlife Watching	32%	74%	27.6	60%	\$573,454,387
All Activities*	100%	64%	NA	NA	NA

*The “All Activities” category excludes variables for estimating days because these scale dimensionally with a simple sum (unlike participant estimates).

[^]Unlike other activities, water sports Spend2016 is not adjusted downward using waterRate and waterShare because the OIA spending excludes swimming in pools, etc. (i.e., it is all along the water).

Table A 2. Arizona Adult (18+) Population by County in 2018 (U.S. Census)

Region	County	Population	Share
North	Apache	54,048	1.0%
South	Cochise	103,809	1.9%
North	Coconino	114,760	2.1%
North	Gila	44,621	0.8%
South	Graham	28,849	0.5%
South	Greenlee	7,095	0.1%
Center	La Paz	18,007	0.3%
Center	Maricopa	3,294,449	60.2%
North	Mohave	176,492	3.2%
North	Navajo	82,333	1.5%
South	Pima	831,817	15.2%
Center	Pinal	325,448	6.0%
South	Santa Cruz	35,212	0.6%
North	Yavapai	192,970	3.5%
Center	Yuma	159,533	2.9%
	Arizona	5,469,443	100.0%

Table A 3. Home vs Away County Participation Profiles – by Activity (AZ 2018 survey)

Activity	<u>Away</u>		<u>Home</u>	
	Rate	Share	Rate	Share
Bicycling	34%	15%	81%	85%
Camping	73%	69%	40%	31%
Fishing	62%	31%	66%	69%
Hunting & Shooting	62%	56%	76%	44%
Picnicking or relaxing	44%	39%	72%	61%
Snow Sports	64%	64%	45%	36%
Trail Sports	60%	48%	70%	52%
Water Sports	47%	45%	63%	55%
Wildlife Watching	61%	65%	70%	35%
All Activities	55%	NA	66%	NA

Rate: % of Participants who recreated in home vs away counties (AZ Svy)

Share: Share of Days spent in away vs home counties (AZ Svy)

Table A 4. Away County Participant Profiles – by Activity & County (AZ 2018 survey)

County	<u>awayRateCnty</u>									All
	bike	camp	fish	hunt	picnic	snow	trail	water	wildlife	
Apache	10%	9%	22%	29%	12%	16%	13%	7%	20%	18%
Cochise	6%	6%	6%	12%	2%	19%	5%	2%	8%	7%
Coconino	36%	46%	32%	29%	30%	51%	42%	31%	31%	36%
Gila	21%	7%	11%	18%	19%	9%	9%	11%	17%	19%
Graham	4%	2%	2%	4%	1%	0%	2%	1%	3%	3%
Greenlee	0%	3%	1%	1%	4%	0%	0%	3%	1%	3%
La paz	9%	3%	1%	3%	3%	9%	2%	4%	5%	5%
Maricopa	11%	4%	15%	9%	6%	0%	13%	13%	22%	14%
Mohave	6%	3%	5%	9%	9%	7%	5%	15%	8%	9%
Navajo	0%	11%	10%	9%	8%	0%	16%	3%	11%	12%
Pima	7%	7%	8%	9%	5%	0%	9%	6%	9%	10%
Pinal	7%	6%	13%	33%	8%	0%	10%	2%	12%	15%
Santa cruz	5%	3%	4%	3%	8%	8%	4%	1%	6%	7%
Yavapai	12%	21%	11%	7%	16%	0%	28%	18%	17%	21%
Yuma	3%	5%	2%	7%	5%	0%	4%	8%	7%	7%

awayRateCnty: % of Away Participants who recreated in each county (AZ Svy)

Table A 5. Away County Share of Days – by Activity (AZ 2018 survey)

County	<u>awayShareCnty</u>								
	bike	camp	fish	hunt	picnic	snow	trail	water	wildlife
Apache	5%	8%	14%	27%	3%	15%	5%	2%	10%
Cochise	9%	4%	3%	6%	1%	14%	1%	0%	3%
Coconino	16%	44%	24%	21%	25%	29%	40%	19%	15%
Gila	17%	2%	5%	6%	25%	17%	4%	3%	4%
Graham	7%	2%	1%	1%	0%	0%	1%	0%	2%
Greenlee	0%	1%	0%	0%	2%	0%	0%	1%	0%
La paz	6%	2%	0%	0%	6%	5%	3%	8%	5%
Maricopa	13%	6%	14%	11%	2%	0%	14%	25%	16%
Mohave	1%	1%	4%	5%	9%	5%	2%	15%	3%
Navajo	0%	8%	6%	5%	4%	0%	5%	1%	5%
Pima	7%	3%	10%	5%	3%	0%	5%	1%	2%
Pinal	7%	2%	7%	8%	3%	0%	4%	1%	6%
Santa cruz	8%	2%	4%	3%	9%	15%	2%	0%	1%
Yavapai	2%	10%	5%	1%	6%	0%	14%	17%	4%
Yuma	1%	5%	2%	2%	1%	0%	1%	6%	24%
Arizona	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A 6. Home County Participant Profiles – by Activity & Region (AZ 2018 survey)

Activity	<u>svyRate</u>			<u>waterRate</u>			<u>homeRate</u>			part Adjust
	Cntr	Nrth	Sth	Cntr	Nrth	Sth	Cntr	Nrth	Sth	
Bicycling	38%	23%	33%	40%	52%	48%	57%	55%	59%	1.37
Camping	31%	36%	38%	70%	83%	56%	55%	55%	63%	0.73
Fishing	22%	38%	22%	93%	82%	100%	65%	60%	62%	1.14
Hunt/Shoot	18%	30%	22%	28%	45%	40%	66%	82%	64%	1.13
Picnic	62%	63%	57%	68%	83%	48%	58%	58%	57%	1.26
Snow Sports	7%	9%	3%	29%	33%	100%	54%	50%	59%	0.79
Trail Sports	52%	45%	48%	58%	65%	43%	64%	69%	67%	1.08
Water Sports	34%	41%	27%	69%	79%	63%	55%	61%	51%	1.18
Wildlife Watching	30%	37%	35%	76%	79%	65%	66%	62%	67%	1.07
All Activities	100%	100%	100%	75%	80%	62%	71%	73%	72%	0.81

Table A 7. Home County Days Profiles – by Activity & Region (AZ 2018 survey)

Activity	<u>avgHomeDays</u>			days Adjust
	Center	North	South	
Bicycling	36.6	51.8	46.1	0.53
Camping	1.5	7.9	7.2	1.15
Fishing	17.6	11.7	7.7	0.51
Hunting & Shooting	7.7	34.2	6.4	0.26
Picnicking or relaxing	9.1	12.0	9.4	0.56
Snow Sports	1.5	1.3	7.8	0.81
Trail Sports	13.0	27.0	21.9	0.67
Water Sports	6.1	13.0	6.9	1.36
Wildlife Watching	14.7	24.4	15.5	0.51

Table A 8. Share of Spending for Trip vs. Equipment – By Activity (OIA, 2017; USFWS, 2011)

Activity	<u>Type of Spending</u>		total
	equipment	trip	
Bicycling	11%	89%	100%
Camping	15%	85%	100%
Fishing	62%	38%	100%
Hunting & Shooting	66%	34%	100%
Picnicking or relaxing	0%	100%	100%
Snow Sports	17%	83%	100%
Trail Sports	8%	92%	100%
Water Sports	22%	78%	100%
Wildlife Watching	85%	15%	100%

Table A 9. County Equipment Spending Allocation – Retail Income (AZ Dept. of Revenue, 2018)

County	Retail Income	Retail Share
Apache	\$120,628,459	0.2%
Cochise	\$846,722,014	1.3%
Coconino	\$1,366,010,130	2.0%
Gila	\$332,089,341	0.5%
Graham	\$256,204,745	0.4%
Greenlee	\$137,030,556	0.2%
La Paz	\$148,310,828	0.2%
Maricopa	\$46,987,536,253	69.7%
Mohave	\$1,778,726,826	2.6%
Navajo	\$995,752,034	1.5%
Pima	\$9,069,627,163	13.5%
Pinal	\$1,532,816,770	2.3%
Santa Cruz	\$319,906,308	0.5%
Yavapai	\$1,950,925,793	2.9%
Yuma	\$1,587,397,333	2.4%
Arizona	\$67,429,684,553	100.0%

Table A 10. County Trip Spending Allocation – Share of Days by Activity (AZ 2018 survey)

County	<u>daysShareCnty</u>								
	bike	camp	fish	hunt	picnic	snow	trail	water	wildlife
Apache	2%	6%	5%	18%	2%	10%	4%	3%	7%
Cochise	3%	4%	2%	4%	1%	11%	2%	1%	3%
Coconino	4%	32%	9%	17%	12%	19%	21%	12%	11%
Gila	3%	2%	2%	6%	11%	11%	3%	3%	3%
Graham	2%	2%	1%	1%	0%	1%	1%	0%	2%
Greenlee	0%	1%	0%	0%	1%	0%	0%	1%	0%
La paz	1%	1%	0%	0%	2%	3%	1%	4%	3%
Maricopa	50%	11%	51%	16%	37%	9%	33%	38%	29%
Mohave	3%	4%	4%	10%	7%	4%	4%	11%	4%
Navajo	1%	7%	3%	6%	3%	0%	4%	3%	4%
Pima	17%	12%	9%	6%	7%	19%	10%	6%	7%
Pinal	6%	2%	7%	5%	5%	1%	4%	3%	6%
Santa cruz	2%	2%	2%	2%	4%	10%	1%	0%	1%
Yavapai	3%	10%	4%	9%	6%	1%	10%	13%	5%
Yuma	2%	4%	3%	1%	2%	0%	2%	4%	16%
Arizona	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A 11. Participation by Waterbody – For each County (AZ 2018 survey)

County	Waterbody	Part Rate	Days Share
apache	any unnamed waters	51%	22%
	big lake	80%	42%
	black river	55%	13%
	little colorado	59%	23%
cochise	any unnamed waters	52%	29%
	parker canyon lake	68%	29%
	san pedro river	73%	29%
	whitewater draw	53%	13%
coconino	any unnamed waters	47%	24%
	colorado river and grand canyon	49%	19%
	lake powell	39%	17%
	oak creek	53%	31%
	woods canyon lake	38%	10%
gila	any unnamed waters	32%	34%
	christopher creek	56%	19%
	fossil creek	44%	15%
	roosevelt lake	64%	31%
graham	any unnamed waters	36%	22%
	aravaipa canyon wilderness	72%	24%
	gila river	73%	34%
	roper lake	72%	20%
greenlee	ackre lake	61%	24%
	any unnamed waters	37%	20%
	blue lake/river	48%	15%
	san francisco river	43%	41%
la paz	any unnamed waters	58%	15%
	bill williams and alamo lake	61%	14%
	colorado river and lakes /reservoirs/wildlife	96%	71%
	refuges along colorado river		
maricopa	agua fria river and lake pleasant	53%	20%
	any unnamed waters	50%	28%
	gila river	39%	16%
	salt river and lakes /reservoirs along salt river	70%	35%

Estimated at the county dimension. For example, 80% of Apache county participants went to Big Lake, and it accounted for 42% of all the participant days in Apache.

(Continued). Participation by Waterbody – For each County (AZ 2018 survey)

County	Waterbody	Part Rate	Days Share
mohave	any unnamed waters	27%	19%
	bill williams and alamo lake	26%	8%
	lake havasu and other lakes/reservoirs/wildlife refuges along colorado river	86%	62%
	lake mead	32%	10%
navajo	any unnamed waters	44%	34%
	black canyon	53%	24%
	fool hollow lake	41%	23%
	silver creek	26%	18%
pima	any unnamed waters	61%	34%
	rose canyon lake	45%	16%
	sabino creek	56%	31%
	santa cruz lake/river	46%	19%
pinal	any unnamed waters	53%	44%
	gila river	69%	37%
	san pedro river	32%	10%
	santa cruz lake/river	23%	9%
santa cruz	any unnamed waters	33%	15%
	patagonia lake state park	77%	30%
	pena blanca lake	60%	17%
	santa cruz lake/river	71%	26%
	sonoita creek	47%	12%
yavapai	any unnamed waters	42%	25%
	fossil creek	33%	8%
	oak creek	65%	48%
	verde river	48%	19%
yuma	any unnamed waters	27%	7%
	colorado river and lakes /reservoirs/wildlife refuges along colorado river	90%	84%
	gila river	49%	8%

Table A 12. Participation by Waterbody – Multi-county Waterbodies (AZ 2018 survey)

Waterbody	Part Rate
any unnamed waters	56.0%
bill williams and alamo lake	4.0%
colorado river and lakes /reservoirs/wildlife refuges along colorado river	8.1%
fossil creek	9.3%
gila river	29.0%
oak creek	17.8%
san pedro river	8.4%
santa cruz lake/river	11.6%

Table A 13. Share of Expenditures by Category for Non-Wildlife Activities (OIA, 2017; AZ 2018 Survey)

	Category	bike	camp	picnic	snow	trail	water
equip	Accessories	1%	2%	0%	2%	1%	1%
	Apparel	2%	3%	0%	4%	3%	3%
	Equipment	4%	4%	0%	4%	1%	3%
	Insurance carriers	0%	0%	0%	0%	0%	1%
	Maintenance	0%	0%	0%	0%	0%	1%
	Other - retail	0%	1%	0%	2%	0%	0%
	Parts	0%	0%	0%	0%	0%	2%
	Registration	0%	0%	0%	0%	0%	1%
	Services	1%	0%	0%	1%	1%	1%
	Storage	0%	1%	0%	2%	0%	0%
	Vehicles - new	1%	2%	0%	1%	1%	5%
	Vehicles - used	1%	1%	0%	0%	0%	4%
trip	Food - Groceries	14%	13%	18%	10%	12%	11%
	Food - Restaurant	18%	17%	23%	13%	16%	14%
	Lodging	13%	14%	0%	14%	17%	14%
	Miscellaneous	2%	1%	0%	1%	2%	3%
	Recreation	12%	13%	18%	26%	13%	12%
	Souvenirs	7%	7%	5%	4%	7%	4%
	Transportation - Air	1%	1%	2%	1%	1%	1%
	Transportation - Gas/Oil	20%	18%	33%	14%	22%	18%
	Transportation - Local	1%	1%	2%	1%	1%	1%
		100%	100%	100%	100%	100%	100%

Table A 14. Share of Expenditures by Category for Fishing (USFWS, 2011)

equip	4x4 and off-road vehicles	0%
	Bait buckets, minnow traps, etc.	0%
	Bass boats	0%
	Binoculars	0%
	Boat motors, trailers, hitches, etc.	1%
	Books & magazines	0%
	Cabins	0%
	Camping gear	21%
	Canoes, non-motorized boats	0%
	Creels, strings, landing nets, etc.	0%
	Depth finder, fish finders, other electronics	1%
	Dues and contributions	0%
	Fees	0%
	Hooks, sinkers, other terminal tackle	1%
	Ice fishing equipment	0%
	Land leased for fishing	0%
	Land purchased for fishing	1%
	Licenses & permits	1%
	Lines & leaders	1%
	Lures, flies & artificial bait	2%
	Other fishing equipment	1%
	Other misc. fishing expenditures	0%
	Other motorized boats	1%
	Other special equipment	0%
	Pick-ups, campers, motor homes, etc.	22%
	Rods, reels & components	4%
	Special fishing clothing, foul weather gear	1%
	Tackle boxes	0%
	Taxidermy & processing	0%
trip	Airfare	1%
	Bait (live, cut, prepared)	1%
	Boat fuel	2%
	Boat launching	0%
	Boat mooring	1%
	Equipment rental	1%
	Food - Groceries	5%
	Food - Restaurant	5%
	Guides	3%
	Heating & cooking fuel	1%
	Ice	1%
	Lodging	5%
	Private automobiles	9%
	Private land use fees	1%
	Public land use fees	1%
	Public transportation	1%
		100%

Table A 15. Share of Expenditures by Category for Hunting (USFWS, 2011)

equip	Ammo	5%
	Bass boat	0%
	Binoculars	1%
	Boat motors, trailers, hitches, etc.	0%
	Books	0%
	Bows	6%
	Cabins	0%
	Camping gear	2%
	Canoe	0%
	Decoys	1%
	Dogs	2%
	Dues	1%
	Foul weather gear	2%
	Handgun	4%
	Handloading	1%
	Land lease	5%
	Land purchase	6%
	License	2%
	Magazines	0%
	Muzzle loader	0%
	Off-road vehicle	3%
	Other boat	0%
	Other hunt equip	1%
	Other items	0%
	Other special equip	0%
	Plantings	1%
	Rifles	4%
	Scopes - guns	1%
	Shotguns	2%
	Tags, Permits, etc.	0%
	Taxidermy	3%
	Van	12%
	Airfare	0%
	Boat fuel	0%
	Boat launch fee	0%
	Boat mooring	0%
	Equip rentals	1%
	Food - Groceries	5%
	Food - Restaurant	5%
	Guide fees	2%
	Heat/cook fuel	0%
	Lodging	2%
	Private Automobiles	11%
	Private land fees	7%
	Public land fees	0%
	Public transportation	0%
		100%

Table A 16. Share of Expenditures by Category for Wildlife Watching (USFWS, 2011)

equip	Animal - bulk	1%
	Animal - feed	4%
	Animal - other	1%
	Binoculars	2%
	Cabins	0%
	Camera	5%
	Dues and contributions	5%
	Film	0%
	Gear - misc	0%
	Gear - daypack	1%
	Gear - pack	0%
	Gear - tent	0%
	Land leased for fishing	5%
	Land purchased for fishing	5%
	Magazines	0%
	Misc auto/truck accessories	1%
	Nest boxes	1%
	Off-road vehicles	6%
	Other boats	1%
	Other special equipment	0%
	Other WW equipment	0%
	Pick-ups, campers, motor homes, etc.	45%
	Shrubs, plantings	0%
	Special book, maps, guides	0%
trip	Airfare	1%
	Boat fuel	0%
	Boat launching	0%
	Equipment rental	0%
	Food - Groceries	2%
	Food - Restaurant	2%
	Guides	0%
	Heating & cooking fuel	1%
	Lodging	3%
	Private Automobiles	4%
	Private land use fees	0%
	Public land use fees	0%
	Public transportation	1%
		100%

Appendix C – Arizona Survey Questionnaire

Outdoor recreation in Arizona

Please tell us a little about yourself.

What is your age?

- ☐ 18 to 24
- ☐ 25 to 34
- ☐ 35 to 44
- ☐ 45 to 54
- ☐ 55 to 64
- ☐ 65 to 74
- ☐ 75 or older

What is your gender?

- ☐ Male
- ☐ Female

What is your household income?

- ☐ Less than \$25,000
- ☐ \$25,000 to \$34,999
- ☐ \$35,000 to \$49,999
- ☐ \$50,000 to \$74,999
- ☐ \$75,000 to \$99,999
- ☐ \$100,000 to \$124,999
- ☐ \$125,000 to \$149,999
- ☐ \$150,000 or more

Please select the choice that best describes your race?

- ☐ Asian
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ Black/African-American
- ☐ White
- ☐ American Indian/Alaska Native
- ☐ Other - Write In
- ☐ Prefer not to answer

Are you of Hispanic, Latino, or Spanish origin?

☐ Yes

☐ No

☐ Prefer not to answer

What is your ZIP code?*: _____

Activities

Did you participate in any of the following activities in Arizona over the past twelve months (between September 1, 2017 and August 31, 2018)? Check all that apply:

☐ **Trail sports (day-hiking on trail, backpacking, climbing ice or rock, mountaineering, horseback riding, running 3+ miles)**

☐ **Bicycling (cycling on paved road or off-road, skateboarding)**

☐ **Camping (RV campsite, tent campsite, or at a rustic lodge)**

☐ **Picnicking or relaxing**

☐ **Water sports (swimming/canoeing/kayaking/rafting/paddle-boarding/boating)**

☐ **Snow sports (cross-country, downhill, telemark, snowboarding, snowshoeing)**

☐ **Hunting & shooting (shotgun, rifle, or bow)**

☐ **Fishing (recreational fly and recreational non-fly)**

☐ **Wildlife-watching (viewing, feeding or photographing animals, bird watching)**

☐ Team competitive sports (softball/baseball, volleyball, soccer, ultimate frisbee)

☐ Off-roading with ATVs, 4x4 trucks

☐ Individual competitive sports (golf, tennis)

☐ Motorcycling (on-road, off-road)

☐ Playground activities

☐ I didn't participate in any of these activities.

How many **total days** did you take part in the following activities in Arizona over these past twelve months (between September 1, 2017 and August 31, 2018)? Please count only those days when an activity was the primary reason for your outing.

Activities on or along the water

Did you participate in any of these activities on or along a body of water (e.g. river, lake, reservoir, or stream) in Arizona over these past twelve months (between September 1, 2017 and August 31, 2018)?*

Note: By “on or along a body of water” we mean any place where water was in view or nearby at some point during your recreational activity.

	Yes	No	Not Sure
Trail sports	()	()	()
Bicycling	()	()	()
Camping	()	()	()
Picnicking or relaxing	()	()	()
Water sports	()	()	()
Snow sports	()	()	()
Hunting & shooting	()	()	()
Fishing	()	()	()
Wildlife-watching	()	()	()

Counties



The next few questions help us learn more about where you went, specifically the water body and county visited. You can open detailed regional maps (referencing counties, major cities, and water bodies) by checking the box beside a region list below to refresh your memory.

☐ West

☐ North/Northeast

☐ South/Southeast

☐ Central



Please tell us in which counties you participated in Wildlife-watching over these past 12 months (September 1, 2017 to August 31, 2018):

- ☐ Apache
- ☐ Coconino
- ☐ Cochise
- ☐ Gila
- ☐ Graham
- ☐ Greenlee
- ☐ La Paz
- ☐ Maricopa
- ☐ Mohave
- ☐ Navajo
- ☐ Pima
- ☐ Pinal
- ☐ Santa Cruz
- ☐ Yavapai
- ☐ Yuma
- ☐ I did not go wildlife-viewing on or along the water during this time period

The following county-specific tables are shown according to the counties selected above.

[Activity]

Please tell us the total days you participated in **[Activity]** in **Apache County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Big Lake	
Days on or along Black River	
Days on or along Little Colorado	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Coconino County** and how many of those days you spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Colorado River and Grand Canyon	
Days on or along Lake Powell	
Days on or along Oak Creek	
Days on or along Woods Canyon Lake	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Cochise County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Parker Canyon Lake	
Days on or along San Pedro River	
Days on or along Whitewater Draw	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Gila County** and how many of those days you spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on near the water)	
Days on or along Christopher Creek	
Days on or along Fossil Creek	
Days on or along Roosevelt Lake	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Graham County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Aravaipa Canyon Wilderness	
Days on or along Gila River	
Days on or along Roper Lake	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Greenlee County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Ackre Lake	
Days on or along Blue River	
Days on or along San Francisco River	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **La Paz County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Bill Williams and Alamo Lake	
Days on or along Colorado River and lakes/reservoirs/wildlife refuges along the Colorado River	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Maricopa County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Agua Fria River and Lake Pleasant	
Days on or along Gila River	
Days on or along Salt River and lakes/reservoirs along Salt River	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Mohave County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Bill Williams River and Alamo Lake	
Days on or along Lake Havasu and other lakes/reservoirs/wildlife refuges along Colorado River	
Days on or along Lake Mead	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Navajo County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or near the water)	
Days on or along Black Canyon	
Days on or along Fool Hollow Lake	
Days on or along Silver Creek	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Pima County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Rose Canyon Lake	
Days on or along Sabino Creek	
Days on or along Santa Cruz River	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Pinal County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Gila River	
Days on or along San Pedro River	
Days on or along Santa Cruz Lake	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Santa Cruz County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as on or along the water)	
Days on or along Patagonia Lake State Park	
Days on or along Pena Blanca Lake	
Days on or along Santa Cruz River	
Days on or along Sonoita Creek	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Yavapai County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Fossil Creek	
Days on or along Oak Creek	
Days on or along Verde River	
Days on or along any unnamed waters	

Please tell us the total days you participated in **[Activity]** in **Yuma County** and how many of those days were spent on or along the following bodies of water. Count only days when WILDLIFE-WATCHING was the primary reason for your outing over these past twelve months (between September 1, 2017 and August 31, 2018).

	[Activity]
Total Days (include days off the water as well as days on or along the water)	
Days on or along Colorado River and lakes/reservoirs/wildlife refuges along the Colorado River	
Days on or along Gila River	
Days on or along any unnamed waters	

Decrease activity

If you were not able to participate in **[Activity]** on or along the water, how much would your total activity decrease?

- ☐ A great amount
- ☐ A moderate amount
- ☐ A small amount
- ☐ Not at all

Alone or group

Over these past twelve months (between September 1, 2017 and August 31, 2018), what percent of your **[Activity]** days on or along the water were spent by yourself or with others?

- _____ Alone
- _____ Family or friends **INCLUDING** children under the age of 18 years old
- _____ Family or friends **NOT INCLUDING** children under the age of 18 years old
- _____ Other

Distance traveled

Over these past twelve months (between September 1, 2017 and August 31, 2018), what percent of your **[Activity]** days on or along the water were spent at the following distances from home?

- _____ 0-50 miles from home
- _____ 51-100 miles from home
- _____ More than 100 miles from home

Decrease enjoyment

How much does the presence of water add to your enjoyment of **[Activity]**?

- ☐ A great amount
- ☐ A moderate amount
- ☐ A small amount
- ☐ Not at all

Appendix D – County-level Write-in Waterbody Results

Write in results for waterbody across all activities

apache , saguaro	it was a small creek where we were target practicing	rim area
apache lake	kanikanik	rio vista
arizona canal	kennedy park	riparian
baralate lake	kohl's ranch	riparian preserve - gilbert
barret	lake	riparian preserves
bartlett lake	lake bartlett	roper lake, show low lake
bartlett lake, canyon lake	lake chevron	saguaro lake
bear canyon lake	lake mary	sahuarita community lake
bear creek	lake watson	sahuaro lake
blue ridge reservoir	lakeside lake	salt river canal system
cadaric canyon	local park	salton sea
camp verde	luna	sandhill crane pond south of wilcox
camp verde clear creek	luna lake	saquara
canal	lymn lake	show low lake
canyon lake	lynx lake	show low lake, woodland lake
casa grande	lynx lake and watson lake	showlow
case park, murphy's gulch	mittry lake	showlow lake
cattle tanks	mormon lake, lake mary	side rock
cesar chavez park	mt lemon area	slide rock
chapparal lake	mt lemonn	small creeks from mountains
cibecue falls	murphy's gulch, case park	snowbowl
clear creek	national park	srp canal
continental and lake mary	nationalcreek	surprise park lake
continental ranch creek	park lake, in queen creek	tanque verde falls
creek	payson	tempe town lake
creek by my house	pena blanca	tucson man made lakes
dogtown lake	penasco canyon	unknown
family pond	peoria	waterfall trail
fendship	pine creek	watson
fossil creek, grasshopper point	pioneer park	watson and willow lake
globe	potato canyon, chevelon canyon	watson lake
goldwater and lynx lakes	prat lake	wet beaver creek
goldwater lake	prescott area lakes, streams	white tank mountains
golf course ponds	provence community	willow lake, watson lake, sedona wetlands preserve
golf course ponds & park streams	rainbow sholow lake	willow springs lake
hawley	random rivers	woodland lake
hawley lake	red mountain park	
holly creek big lake	reperian preserve	

Appendix E – County-level Results

Apache County

Summary of participation and economic contributions of all water-based recreational activity in Apache County

AZ Resident Participants (thsd)	167.0	GDP (millions)	\$221.8
AZ Resident Days (thsd)	2.04	Jobs (thsd)	3.8
Spending (millions)	\$253.2	Wages (millions)	\$143.1
Output (millions)	\$421.8	Tax revenue* (millions)	\$58.0

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Apache County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	14.1	107.6
Camping	40.6	191.9
Fishing	83.7	207.9
Hunting & Shooting	33.0	193.4
Picnicking or relaxing	61.2	143.8
Snow Sports	5.9	16.4
Trail Sports	60.5	347.6
Water Sports	23.7	170.5
Wildlife Watching	73.3	665.4

Participation by waterbody within Apache County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	167.0	2,044.4
Big Lake	134.3	849.4
Black River	91.3	273.9
Little Colorado River	97.8	469.4
Any unnamed waters	84.6	451.7

Spending by outdoor recreationists toward their water-based activity in Apache County

	Spending (millions)
Bicycling	\$9.2
Camping	\$74.0
Fishing	\$11.8
Hunting & Shooting	\$6.5
Picnicking or relaxing	\$8.4
Snow Sports	\$21.8
Trail Sports	\$74.8
Water Sports	\$43.4
Wildlife Watching	\$3.3
All Activities	\$253.2

Economic contributions of water-based outdoor recreation in Apache County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$8.1	\$4.1	86	\$2.9	\$0.6	\$0.6
Camping	\$65.7	\$34.0	707	\$23.6	\$5.1	\$4.9
Fishing	\$11.2	\$5.4	113	\$3.6	\$0.8	\$0.8
Hunting & Shooting	\$6.2	\$3.5	112	\$2.8	\$0.6	\$0.3
Picnicking or relaxing	\$7.6	\$3.6	72	\$2.5	\$0.5	\$0.5
Snow Sports	\$20.1	\$11.1	222	\$7.6	\$1.7	\$1.5
Trail Sports	\$66.2	\$33.9	696	\$23.6	\$5.1	\$4.9
Water Sports	\$38.6	\$19.9	410	\$13.8	\$3.0	\$2.9
Wildlife Watching	\$3.1	\$1.5	27	\$1.0	\$0.2	\$0.2
All Activities	\$226.9	\$117.0	2,445	\$81.5	\$17.7	\$16.6
Total contributions						
Bicycling	\$15.0	\$7.9	133	\$5.0	\$1.1	\$0.9
Camping	\$122.4	\$64.5	1,092	\$41.5	\$9.4	\$7.5
Fishing	\$20.5	\$10.3	175	\$6.6	\$1.5	\$1.2
Hunting & Shooting	\$11.5	\$6.3	148	\$4.4	\$1.0	\$0.6
Picnicking or relaxing	\$14.0	\$7.0	115	\$4.5	\$1.0	\$0.8
Snow Sports	\$37.8	\$20.8	343	\$13.3	\$3.0	\$2.4
Trail Sports	\$123.1	\$64.5	1,083	\$41.6	\$9.4	\$7.6
Water Sports	\$71.7	\$37.8	636	\$24.4	\$5.5	\$4.4
Wildlife Watching	\$5.7	\$2.8	44	\$1.8	\$0.4	\$0.3
All Activities	\$421.8	\$221.8	3,769	\$143.1	\$32.3	\$25.7

Cochise County

Summary of participation and economic contributions of all water-based recreational activity Cochise the County

AZ Resident Participants (thsd)	77.6	GDP (millions)	\$147.3
AZ Resident Days (thsd)	1.00	Jobs (thsd)	2.4
Spending (millions)	\$167.8	Wages (millions)	\$93.7
Output (millions)	\$279.4	Tax revenue* (millions)	\$38.4

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Cochise County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	12.8	239.8
Camping	30.2	112.7
Fishing	28.7	63.9
Hunting & Shooting	15.4	38.7
Picnicking or relaxing	17.5	70.1
Snow Sports	7.3	19.2
Trail Sports	25.8	157.5
Water Sports	9.0	57.6
Wildlife Watching	36.8	241.3

Participation by waterbody within Cochise County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies:	77.6	1,000.8
Parker Canyon Lake	52.9	294.3
San Pedro River	56.4	290.3
Whitewater Draw	40.8	128.7
Any unnamed waters	40.2	287.4

Spending by outdoor recreationists toward their water-based activity in Cochise County

	Spending (millions)
Bicycling	\$21.2
Camping	\$45.9
Fishing	\$8.0
Hunting & Shooting	\$2.1
Picnicking or relaxing	\$4.1
Snow Sports	\$25.9
Trail Sports	\$36.1
Water Sports	\$20.4
Wildlife Watching	\$4.0
All Activities	\$167.8

Economic contributions of water-based outdoor recreation in Cochise County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$18.6	\$9.5	197	\$6.6	\$1.4	\$1.4
Camping	\$40.8	\$21.1	434	\$14.5	\$3.2	\$3.0
Fishing	\$7.9	\$3.7	63	\$2.3	\$0.5	\$0.5
Hunting & Shooting	\$2.1	\$1.1	29	\$0.8	\$0.2	\$0.1
Picnicking or relaxing	\$3.7	\$1.8	35	\$1.2	\$0.3	\$0.2
Snow Sports	\$23.9	\$13.2	262	\$9.1	\$2.0	\$1.8
Trail Sports	\$32.1	\$16.4	334	\$11.3	\$2.5	\$2.4
Water Sports	\$17.9	\$9.3	174	\$6.2	\$1.4	\$1.3
Wildlife Watching	\$4.0	\$1.8	23	\$1.0	\$0.2	\$0.2
All Activities	\$151.0	\$77.9	1,551	\$53.0	\$11.7	\$11.1
Total contributions						
Bicycling	\$34.6	\$18.1	305	\$11.6	\$2.6	\$2.1
Camping	\$75.9	\$40.0	673	\$25.7	\$5.8	\$4.7
Fishing	\$14.0	\$7.1	104	\$4.3	\$1.0	\$0.8
Hunting & Shooting	\$3.7	\$2.0	40	\$1.3	\$0.3	\$0.2
Picnicking or relaxing	\$6.8	\$3.4	56	\$2.2	\$0.5	\$0.4
Snow Sports	\$44.9	\$24.6	406	\$15.7	\$3.6	\$2.8
Trail Sports	\$59.6	\$31.2	521	\$20.1	\$4.5	\$3.7
Water Sports	\$33.0	\$17.5	276	\$11.1	\$2.5	\$2.1
Wildlife Watching	\$6.7	\$3.3	41	\$1.9	\$0.4	\$0.3
All Activities	\$279.4	\$147.3	2,424	\$93.7	\$21.4	\$17.1

Coconino County

Summary of participation and economic contributions of all water-based recreational activity in Coconino County

AZ Resident Participants (thsd)	328.7	GDP (millions)	\$1,038.0
AZ Resident Days (thsd)	6.52	Jobs (thsd)	17.4
Spending (millions)	\$1,194.6	Wages (millions)	\$667.6
Output (millions)	\$1,978.1	Tax revenue* (millions)	\$272.0

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Coconino County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	47.7	288.5
Camping	194.7	984.3
Fishing	126.5	369.2
Hunting & Shooting	36.1	181.3
Picnicking or relaxing	148.4	739.5
Snow Sports	18.1	31.7
Trail Sports	182.7	2,087.6
Water Sports	97.2	785.4
Wildlife Watching	117.4	1,053.9

Participation by waterbody within Coconino County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies:	328.7	6,521.5
Colorado River and Grand Canyon	161.9	1,212.3
Lake Powell	129.4	1,105.3
Oak Creek	173.7	2,003.5
Woods Canyon Lake	126.3	667.1
Any unnamed waters	154.2	1,533.2

Spending by outdoor recreationists toward their water-based activity in Coconino County

	Spending (millions)
Bicycling	\$25.9
Camping	\$381.9
Fishing	\$27.2
Hunting & Shooting	\$7.4
Picnicking or relaxing	\$43.3
Snow Sports	\$42.8
Trail Sports	\$450.9
Water Sports	\$205.9
Wildlife Watching	\$9.3
All Activities	\$1,194.6

Economic contributions of water-based outdoor recreation in Coconino County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$22.8	\$11.6	240	\$8.0	\$1.8	\$1.7
Camping	\$339.3	\$175.5	3,645	\$121.6	\$26.5	\$25.1
Fishing	\$26.2	\$12.4	241	\$8.1	\$1.8	\$1.8
Hunting & Shooting	\$7.0	\$3.9	115	\$2.9	\$0.6	\$0.4
Picnicking or relaxing	\$39.3	\$18.6	371	\$12.8	\$2.8	\$2.6
Snow Sports	\$39.5	\$21.8	434	\$15.0	\$3.3	\$3.0
Trail Sports	\$399.3	\$204.5	4,197	\$142.4	\$30.8	\$29.7
Water Sports	\$182.6	\$94.5	1,925	\$65.4	\$14.2	\$13.6
Wildlife Watching	\$9.1	\$4.1	62	\$2.5	\$0.6	\$0.5
All Activities	\$1,065.2	\$546.9	11,230	\$378.7	\$82.3	\$78.4
Total contributions						
Bicycling	\$42.4	\$22.2	373	\$14.2	\$3.2	\$2.6
Camping	\$631.7	\$332.9	5,633	\$214.1	\$48.4	\$38.8
Fishing	\$47.4	\$23.8	383	\$14.8	\$3.4	\$2.8
Hunting & Shooting	\$13.0	\$7.1	155	\$4.8	\$1.1	\$0.7
Picnicking or relaxing	\$72.0	\$35.9	590	\$23.0	\$5.2	\$4.1
Snow Sports	\$74.1	\$40.7	671	\$26.0	\$5.9	\$4.7
Trail Sports	\$742.4	\$388.7	6,531	\$251.0	\$56.6	\$45.7
Water Sports	\$339.4	\$179.0	2,992	\$115.0	\$26.0	\$20.9
Wildlife Watching	\$15.8	\$7.8	107	\$4.6	\$1.1	\$0.8
All Activities	\$1,978.1	\$1,038.0	17,435	\$667.6	\$150.9	\$121.1

Gila County

Summary of participation and economic contributions of all water-based recreational activity in Gila County

AZ Resident Participants (thsd)	168.6	GDP (millions)	\$202.5
AZ Resident Days (thsd)	1.88	Jobs (thsd)	3.4
Spending (millions)	\$233.0	Wages (millions)	\$130.0
Output (millions)	\$387.4	Tax revenue* (millions)	\$52.9

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Gila County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	26.9	227.5
Camping	31.8	73.3
Fishing	45.1	95.8
Hunting & Shooting	20.9	60.3
Picnicking or relaxing	89.2	663.7
Snow Sports	3.2	18.6
Trail Sports	41.8	278.4
Water Sports	33.8	184.1
Wildlife Watching	64.6	274.3

Participation by waterbody within Gila County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	168.6	1,876.1
Christopher Creek	94.4	360.1
Fossil Creek	74.3	283.4
Roosevelt Lake	107.9	589.0
Any unnamed waters	54.1	643.6

Spending by outdoor recreationists toward their water-based activity in Gila County

	Spending (millions)
Bicycling	\$19.6
Camping	\$29.1
Fishing	\$6.9
Hunting & Shooting	\$2.3
Picnicking or relaxing	\$38.9
Snow Sports	\$24.9
Trail Sports	\$60.6
Water Sports	\$48.3
Wildlife Watching	\$2.3
All Activities	\$233.0

Economic contributions of water-based outdoor recreation in Gila County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$17.2	\$8.8	182	\$6.1	\$1.3	\$1.3
Camping	\$25.9	\$13.4	277	\$9.3	\$2.0	\$1.9
Fishing	\$6.7	\$3.2	62	\$2.1	\$0.5	\$0.5
Hunting & Shooting	\$2.2	\$1.2	37	\$0.9	\$0.2	\$0.1
Picnicking or relaxing	\$35.3	\$16.7	333	\$11.5	\$2.5	\$2.4
Snow Sports	\$23.0	\$12.7	253	\$8.7	\$1.9	\$1.8
Trail Sports	\$53.7	\$27.5	563	\$19.1	\$4.1	\$4.0
Water Sports	\$42.9	\$22.2	452	\$15.3	\$3.3	\$3.2
Wildlife Watching	\$2.3	\$1.0	16	\$0.6	\$0.1	\$0.1
All Activities	\$209.1	\$106.6	2,174	\$73.6	\$16.0	\$15.2
Total contributions						
Bicycling	\$31.9	\$16.7	282	\$10.7	\$2.4	\$2.0
Camping	\$48.2	\$25.4	429	\$16.3	\$3.7	\$3.0
Fishing	\$12.1	\$6.1	98	\$3.8	\$0.9	\$0.7
Hunting & Shooting	\$4.1	\$2.2	50	\$1.5	\$0.3	\$0.2
Picnicking or relaxing	\$64.6	\$32.2	530	\$20.6	\$4.7	\$3.7
Snow Sports	\$43.1	\$23.7	391	\$15.1	\$3.4	\$2.7
Trail Sports	\$99.8	\$52.2	877	\$33.7	\$7.6	\$6.1
Water Sports	\$79.7	\$42.0	702	\$27.0	\$6.1	\$4.9
Wildlife Watching	\$4.0	\$2.0	27	\$1.2	\$0.3	\$0.2
All Activities	\$387.4	\$202.5	3,385	\$130.0	\$29.4	\$23.5

Graham County

Summary of participation and economic contributions of all water-based recreational activity in Graham County

AZ Resident Participants (thsd)	28.6	GDP (millions)	\$52.3
AZ Resident Days (thsd)	0.47	Jobs (thsd)	0.9
Spending (millions)	\$60.3	Wages (millions)	\$33.3
Output (millions)	\$99.7	Tax revenue* (millions)	\$13.7

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Graham County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	6.1	109.6
Camping	9.5	59.2
Fishing	10.2	24.7
Hunting & Shooting	4.6	6.7
Picnicking or relaxing	7.2	17.8
Snow Sports	0.2	1.1
Trail Sports	8.7	66.1
Water Sports	3.7	12.2
Wildlife Watching	13.2	168.1

Participation by waterbody within Graham County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	28.6	465.6
Aravaipa Canyon Wilderness	20.7	112.0
Gila River	21.0	158.3
Roper Lake	20.7	94.4
Any unnamed waters	10.2	100.9

Spending by outdoor recreationists toward their water-based activity in Graham County

	Spending (millions)
Bicycling	\$9.6
Camping	\$23.5
Fishing	\$2.7
Hunting & Shooting	\$0.5
Picnicking or relaxing	\$1.0
Snow Sports	\$1.6
Trail Sports	\$14.9
Water Sports	\$4.9
Wildlife Watching	\$1.6
All Activities	\$60.3

Economic contributions of water-based outdoor recreation in Graham County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$8.4	\$4.3	89	\$3.0	\$0.6	\$0.6
Camping	\$20.9	\$10.8	224	\$7.5	\$1.6	\$1.5
Fishing	\$2.7	\$1.2	22	\$0.8	\$0.2	\$0.2
Hunting & Shooting	\$0.5	\$0.2	6	\$0.2	\$0.0	\$0.0
Picnicking or relaxing	\$0.9	\$0.4	9	\$0.3	\$0.1	\$0.1
Snow Sports	\$1.5	\$0.8	16	\$0.6	\$0.1	\$0.1
Trail Sports	\$13.2	\$6.8	138	\$4.7	\$1.0	\$1.0
Water Sports	\$4.3	\$2.2	40	\$1.5	\$0.3	\$0.3
Wildlife Watching	\$1.6	\$0.7	11	\$0.4	\$0.1	\$0.1
All Activities	\$53.9	\$27.6	554	\$18.8	\$4.1	\$3.9
Total contributions						
Bicycling	\$15.6	\$8.1	137	\$5.2	\$1.2	\$1.0
Camping	\$38.9	\$20.5	346	\$13.2	\$3.0	\$2.4
Fishing	\$4.7	\$2.4	36	\$1.4	\$0.3	\$0.3
Hunting & Shooting	\$0.8	\$0.5	8	\$0.3	\$0.1	\$0.0
Picnicking or relaxing	\$1.7	\$0.9	14	\$0.6	\$0.1	\$0.1
Snow Sports	\$2.8	\$1.5	25	\$1.0	\$0.2	\$0.2
Trail Sports	\$24.6	\$12.9	215	\$8.3	\$1.9	\$1.5
Water Sports	\$7.8	\$4.2	64	\$2.6	\$0.6	\$0.5
Wildlife Watching	\$2.7	\$1.3	18	\$0.8	\$0.2	\$0.1
All Activities	\$99.7	\$52.3	865	\$33.3	\$7.6	\$6.1

Greenlee County

Summary of participation and economic contributions of all water-based recreational activity in Greenlee County

AZ Resident Participants (thsd)	29.2	GDP (millions)	\$25.5
AZ Resident Days (thsd)	0.16	Jobs (thsd)	0.4
Spending (millions)	\$29.5	Wages (millions)	\$16.3
Output (millions)	\$48.9	Tax revenue* (millions)	\$6.7

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Greenlee County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	0.4	9.8
Camping	12.9	20.6
Fishing	5.0	5.7
Hunting & Shooting	1.3	2.3
Picnicking or relaxing	19.5	56.9
Snow Sports	0.0	0.3
Trail Sports	0.5	6.9
Water Sports	7.7	47.2
Wildlife Watching	4.0	7.4

Participation by waterbody within Greenlee County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	29.2	157.0
Ackre Lake	17.9	37.5
Blue Lake/River	14.0	24.3
San Francisco River	12.5	63.8
Any unnamed waters	10.7	31.4

Spending by outdoor recreationists toward their water-based activity in Greenlee County

	Spending (millions)
Bicycling	\$1.0
Camping	\$8.3
Fishing	\$1.0
Hunting & Shooting	\$0.2
Picnicking or relaxing	\$3.3
Snow Sports	\$0.4
Trail Sports	\$1.9
Water Sports	\$12.8
Wildlife Watching	\$0.5
All Activities	\$29.5

Economic contributions of water-based outdoor recreation in Greenlee County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$0.9	\$0.4	9	\$0.3	\$0.1	\$0.1
Camping	\$7.4	\$3.8	79	\$2.6	\$0.6	\$0.5
Fishing	\$1.0	\$0.5	8	\$0.3	\$0.1	\$0.1
Hunting & Shooting	\$0.2	\$0.1	2	\$0.1	\$0.0	\$0.0
Picnicking or relaxing	\$3.0	\$1.4	29	\$1.0	\$0.2	\$0.2
Snow Sports	\$0.4	\$0.2	4	\$0.2	\$0.0	\$0.0
Trail Sports	\$1.7	\$0.9	17	\$0.6	\$0.1	\$0.1
Water Sports	\$11.3	\$5.9	118	\$4.0	\$0.9	\$0.8
Wildlife Watching	\$0.5	\$0.2	3	\$0.1	\$0.0	\$0.0
All Activities	\$26.5	\$13.5	269	\$9.2	\$2.0	\$1.9
Total contributions						
Bicycling	\$1.6	\$0.8	14	\$0.5	\$0.1	\$0.1
Camping	\$13.8	\$7.3	122	\$4.7	\$1.1	\$0.8
Fishing	\$1.8	\$0.9	13	\$0.5	\$0.1	\$0.1
Hunting & Shooting	\$0.4	\$0.2	4	\$0.1	\$0.0	\$0.0
Picnicking or relaxing	\$5.5	\$2.8	45	\$1.8	\$0.4	\$0.3
Snow Sports	\$0.8	\$0.4	7	\$0.3	\$0.1	\$0.0
Trail Sports	\$3.1	\$1.6	27	\$1.0	\$0.2	\$0.2
Water Sports	\$21.0	\$11.1	184	\$7.1	\$1.6	\$1.3
Wildlife Watching	\$0.8	\$0.4	5	\$0.2	\$0.1	\$0.0
All Activities	\$48.9	\$25.5	421	\$16.3	\$3.7	\$3.0

La Paz County

Summary of participation and economic contributions of all water-based recreational activity in La Paz County

AZ Resident Participants (thsd)	44.3	GDP (millions)	\$119.4
AZ Resident Days (thsd)	0.98	Jobs (thsd)	2.0
Spending (millions)	\$137.3	Wages (millions)	\$76.8
Output (millions)	\$227.6	Tax revenue* (millions)	\$31.3

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within La Paz County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	11.5	83.8
Camping	13.8	45.5
Fishing	4.8	17.1
Hunting & Shooting	3.0	0.6
Picnicking or relaxing	14.3	152.5
Snow Sports	3.3	5.6
Trail Sports	11.6	142.1
Water Sports	12.8	241.1
Wildlife Watching	18.5	288.3

Participation by waterbody within La Paz County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	44.3	976.7
Bill Williams and Alamo Lake	27.2	140.4
Colorado River and Lakes /Reservoirs/Wildlife Refuges along Colorado River	42.6	693.4
Any unnamed waters	25.8	142.9

Spending by outdoor recreationists toward their water-based activity in La Paz County

	Spending (millions)
Bicycling	\$7.3
Camping	\$17.9
Fishing	\$1.7
Hunting & Shooting	\$0.2
Picnicking or relaxing	\$8.9
Snow Sports	\$7.4
Trail Sports	\$30.9
Water Sports	\$61.3
Wildlife Watching	\$1.8
All Activities	\$137.3

Economic contributions of water-based outdoor recreation in La Paz County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$6.4	\$3.2	67	\$2.2	\$0.5	\$0.5
Camping	\$15.9	\$8.2	171	\$5.7	\$1.2	\$1.2
Fishing	\$1.7	\$0.8	14	\$0.5	\$0.1	\$0.1
Hunting & Shooting	\$0.2	\$0.1	2	\$0.0	\$0.0	\$0.0
Picnicking or relaxing	\$8.1	\$3.8	77	\$2.6	\$0.6	\$0.5
Snow Sports	\$6.9	\$3.8	76	\$2.6	\$0.6	\$0.5
Trail Sports	\$27.3	\$14.0	287	\$9.7	\$2.1	\$2.0
Water Sports	\$54.4	\$28.1	579	\$19.5	\$4.2	\$4.0
Wildlife Watching	\$1.7	\$0.8	13	\$0.5	\$0.1	\$0.1
All Activities	\$122.6	\$62.9	1,285	\$43.5	\$9.5	\$9.0
Total contributions						
Bicycling	\$11.8	\$6.2	104	\$4.0	\$0.9	\$0.7
Camping	\$29.7	\$15.6	264	\$10.0	\$2.3	\$1.8
Fishing	\$3.0	\$1.5	23	\$0.9	\$0.2	\$0.2
Hunting & Shooting	\$0.3	\$0.2	2	\$0.1	\$0.0	\$0.0
Picnicking or relaxing	\$14.8	\$7.4	122	\$4.7	\$1.1	\$0.9
Snow Sports	\$12.9	\$7.1	117	\$4.5	\$1.0	\$0.8
Trail Sports	\$50.8	\$26.6	447	\$17.2	\$3.9	\$3.1
Water Sports	\$101.2	\$53.3	898	\$34.4	\$7.8	\$6.2
Wildlife Watching	\$3.0	\$1.5	22	\$0.9	\$0.2	\$0.2
All Activities	\$227.6	\$119.4	1,999	\$76.8	\$17.4	\$13.9

Maricopa County

Summary of participation and economic contributions of all water-based recreational activity in Maricopa County

AZ Resident Participants (thsd)	743.2	GDP (millions)	\$2,790.2
AZ Resident Days (thsd)	17.14	Jobs (thsd)	43.6
Spending (millions)	\$3,233.4	Wages (millions)	\$1,735.5
Output (millions)	\$5,351.5	Tax revenue* (millions)	\$724.4

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Maricopa County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	187.6	3,511.2
Camping	144.4	342.5
Fishing	274.3	2,172.4
Hunting & Shooting	63.2	174.7
Picnicking or relaxing	477.0	2,349.0
Snow Sports	12.8	15.7
Trail Sports	358.1	3,296.6
Water Sports	254.5	2,566.7
Wildlife Watching	308.8	2,706.9

Participation by waterbody within Maricopa County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	743.2	17,135.6
Agua Fria River and Lake Pleasant	392.1	3,487.4
Gila River	289.8	2,744.9
Salt River and Lakes /Reservoirs along Salt River	519.1	6,039.1
Any unnamed waters	374.0	4,864.1

Spending by outdoor recreationists toward their water-based activity in Maricopa County

	Spending (millions)
Bicycling	\$349.3
Camping	\$276.0
Fishing	\$371.0
Hunting & Shooting	\$54.3
Picnicking or relaxing	\$137.6
Snow Sports	\$52.1
Trail Sports	\$840.2
Water Sports	\$976.6
Wildlife Watching	\$176.2
All Activities	\$3,233.4

Economic contributions of water-based outdoor recreation in Maricopa County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$309.8	\$158.2	3,207	\$107.5	\$23.7	\$23.1
Camping	\$248.5	\$127.6	2,372	\$82.2	\$18.8	\$18.8
Fishing	\$366.6	\$171.7	2,788	\$103.6	\$24.6	\$23.8
Hunting & Shooting	\$52.4	\$26.9	476	\$15.0	\$3.7	\$3.0
Picnicking or relaxing	\$124.9	\$59.0	1,179	\$40.6	\$8.8	\$8.3
Snow Sports	\$47.3	\$25.2	477	\$16.3	\$3.7	\$3.7
Trail Sports	\$748.4	\$382.6	7,658	\$260.8	\$57.2	\$55.9
Water Sports	\$854.5	\$446.2	8,169	\$296.5	\$66.2	\$64.3
Wildlife Watching	\$176.8	\$76.5	883	\$39.8	\$10.1	\$7.7
All Activities	\$2,929.2	\$1,474.0	27,209	\$962.2	\$216.9	\$208.6
Total contributions						
Bicycling	\$575.9	\$302.0	5,010	\$191.9	\$43.8	\$35.5
Camping	\$461.6	\$244.3	3,814	\$150.6	\$35.2	\$28.9
Fishing	\$650.8	\$327.4	4,687	\$195.3	\$46.4	\$37.6
Hunting & Shooting	\$92.3	\$49.0	750	\$28.0	\$6.8	\$4.9
Picnicking or relaxing	\$228.6	\$114.0	1,875	\$72.9	\$16.5	\$13.1
Snow Sports	\$88.9	\$48.2	762	\$29.8	\$6.9	\$5.6
Trail Sports	\$1,390.6	\$729.6	12,021	\$464.9	\$105.7	\$86.1
Water Sports	\$1,570.5	\$835.5	13,019	\$524.8	\$120.6	\$98.3
Wildlife Watching	\$292.2	\$140.1	1,648	\$77.3	\$19.0	\$13.5
All Activities	\$5,351.5	\$2,790.2	43,587	\$1,735.5	\$400.9	\$323.6

Mohave County

Summary of participation and economic contributions of all water-based recreational activity in Mohave County

AZ Resident Participants (thsd)	109.5	GDP (millions)	\$371.7
AZ Resident Days (thsd)	2.56	Jobs (thsd)	6.2
Spending (millions)	\$428.3	Wages (millions)	\$237.4
Output (millions)	\$709.6	Tax revenue* (millions)	\$97.2

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Mohave County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	14.0	207.7
Camping	22.5	116.9
Fishing	34.8	148.1
Hunting & Shooting	18.6	113.7
Picnicking or relaxing	67.6	409.5
Snow Sports	3.3	6.4
Trail Sports	37.0	385.8
Water Sports	58.0	774.1
Wildlife Watching	43.1	395.7

Participation by waterbody within Mohave County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	109.5	2,557.8
Bill Williams and Alamo Lake	29.0	209.5
Lake Havasu and other lakes/reservoirs/wildlife refuges along Colorado River	94.7	1,593.4
Lake Mead	34.9	257.1
Any unnamed waters	29.3	497.8

Spending by outdoor recreationists toward their water-based activity in Mohave County

	Spending (millions)
Bicycling	\$19.5
Camping	\$50.3
Fishing	\$17.6
Hunting & Shooting	\$5.6
Picnicking or relaxing	\$24.0
Snow Sports	\$9.7
Trail Sports	\$87.7
Water Sports	\$206.0
Wildlife Watching	\$7.9
All Activities	\$428.3

Economic contributions of water-based outdoor recreation in Mohave County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$17.3	\$8.8	180	\$6.0	\$1.3	\$1.3
Camping	\$44.8	\$23.2	471	\$15.8	\$3.5	\$3.3
Fishing	\$17.2	\$8.1	140	\$5.0	\$1.2	\$1.1
Hunting & Shooting	\$5.3	\$2.9	79	\$2.1	\$0.4	\$0.3
Picnicking or relaxing	\$21.8	\$10.3	206	\$7.1	\$1.5	\$1.5
Snow Sports	\$8.9	\$4.9	96	\$3.3	\$0.7	\$0.7
Trail Sports	\$77.8	\$39.8	811	\$27.5	\$6.0	\$5.8
Water Sports	\$182.6	\$94.5	1,917	\$65.3	\$14.2	\$13.6
Wildlife Watching	\$7.9	\$3.5	44	\$1.9	\$0.5	\$0.4
All Activities	\$383.6	\$196.0	3,944	\$134.1	\$29.4	\$28.0
Total contributions						
Bicycling	\$32.1	\$16.8	281	\$10.7	\$2.4	\$2.0
Camping	\$83.4	\$44.0	734	\$28.1	\$6.4	\$5.1
Fishing	\$30.8	\$15.5	231	\$9.4	\$2.2	\$1.8
Hunting & Shooting	\$9.7	\$5.3	109	\$3.5	\$0.8	\$0.5
Picnicking or relaxing	\$39.9	\$19.9	327	\$12.7	\$2.9	\$2.3
Snow Sports	\$16.7	\$9.1	150	\$5.8	\$1.3	\$1.1
Trail Sports	\$144.6	\$75.8	1,265	\$48.7	\$11.0	\$8.9
Water Sports	\$339.2	\$178.9	2,981	\$114.9	\$26.0	\$20.9
Wildlife Watching	\$13.3	\$6.4	80	\$3.6	\$0.9	\$0.6
All Activities	\$709.6	\$371.7	6,157	\$237.4	\$53.9	\$43.2

Navajo County

Summary of participation and economic contributions of all water-based recreational activity in Navajo County

AZ Resident Participants (thsd)	118.2	GDP (millions)	\$220.0
AZ Resident Days (thsd)	1.57	Jobs (thsd)	3.7
Spending (millions)	\$254.0	Wages (millions)	\$140.6
Output (millions)	\$420.4	Tax revenue* (millions)	\$57.5

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Navajo County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	3.3	90.2
Camping	48.8	210.0
Fishing	43.9	121.5
Hunting & Shooting	13.9	68.4
Picnicking or relaxing	50.4	178.9
Snow Sports	0.4	0.4
Trail Sports	72.0	355.4
Water Sports	16.0	174.6
Wildlife Watching	45.5	369.0

Participation by waterbody within Navajo County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	118.2	1,568.3
Black Canyon	62.7	378.3
Fool Hollow Lake	48.7	367.5
Silver Creek	30.3	287.1
Any unnamed waters	51.7	535.3

Spending by outdoor recreationists toward their water-based activity in Navajo County

	Spending (millions)
Bicycling	\$8.7
Camping	\$83.6
Fishing	\$11.9
Hunting & Shooting	\$3.3
Picnicking or relaxing	\$10.5
Snow Sports	\$1.2
Trail Sports	\$78.9
Water Sports	\$50.7
Wildlife Watching	\$5.1
All Activities	\$254.0

Economic contributions of water-based outdoor recreation in Navajo County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$7.7	\$3.9	80	\$2.7	\$0.6	\$0.6
Camping	\$74.3	\$38.4	794	\$26.5	\$5.8	\$5.5
Fishing	\$11.6	\$5.5	98	\$3.5	\$0.8	\$0.8
Hunting & Shooting	\$3.1	\$1.7	47	\$1.2	\$0.3	\$0.2
Picnicking or relaxing	\$9.5	\$4.5	90	\$3.1	\$0.7	\$0.6
Snow Sports	\$1.1	\$0.6	11	\$0.4	\$0.1	\$0.1
Trail Sports	\$70.0	\$35.8	732	\$24.9	\$5.4	\$5.2
Water Sports	\$44.8	\$23.2	459	\$15.9	\$3.5	\$3.3
Wildlife Watching	\$5.0	\$2.2	30	\$1.3	\$0.3	\$0.2
All Activities	\$227.2	\$116.0	2,343	\$79.4	\$17.4	\$16.6
Total contributions						
Bicycling	\$14.4	\$7.5	125	\$4.8	\$1.1	\$0.9
Camping	\$138.4	\$73.0	1,230	\$46.8	\$10.6	\$8.5
Fishing	\$20.8	\$10.5	160	\$6.4	\$1.5	\$1.2
Hunting & Shooting	\$5.7	\$3.1	65	\$2.1	\$0.5	\$0.3
Picnicking or relaxing	\$17.4	\$8.7	143	\$5.6	\$1.3	\$1.0
Snow Sports	\$2.1	\$1.1	18	\$0.7	\$0.2	\$0.1
Trail Sports	\$130.1	\$68.1	1,141	\$43.9	\$9.9	\$8.0
Water Sports	\$83.0	\$43.9	718	\$28.0	\$6.4	\$5.1
Wildlife Watching	\$8.5	\$4.1	54	\$2.4	\$0.6	\$0.4
All Activities	\$420.4	\$220.0	3,653	\$140.6	\$31.9	\$25.6

Pima County

Summary of participation and economic contributions of all water-based recreational activity in Pima County

AZ Resident Participants (thsd)	221.5	GDP (millions)	\$758.6
AZ Resident Days (thsd)	4.52	Jobs (thsd)	12.1
Spending (millions)	\$875.1	Wages (millions)	\$476.7
Output (millions)	\$1,448.8	Tax revenue* (millions)	\$197.5

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Pima County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	55.2	1,225.5
Camping	65.8	360.8
Fishing	86.2	359.5
Hunting & Shooting	33.1	66.9
Picnicking or relaxing	94.4	442.5
Snow Sports	5.0	31.5
Trail Sports	91.2	1,037.8
Water Sports	53.5	376.3
Wildlife Watching	91.3	618.4

Participation by waterbody within Pima County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	221.5	4,519.2
Rose Canyon Lake	99.4	722.8
Sabino Creek	125.1	1,394.9
Santa Cruz Lake/River	101.7	864.0
Any unnamed waters	134.5	1,537.4

Spending by outdoor recreationists toward their water-based activity in Pima County

	Spending (millions)
Bicycling	\$113.8
Camping	\$166.4
Fishing	\$68.4
Hunting & Shooting	\$11.6
Picnicking or relaxing	\$25.9
Snow Sports	\$47.7
Trail Sports	\$248.1
Water Sports	\$158.7
Wildlife Watching	\$34.4
All Activities	\$875.1

Economic contributions of water-based outdoor recreation in Pima County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$100.3	\$51.2	1,050	\$35.1	\$7.7	\$7.4
Camping	\$148.4	\$76.6	1,539	\$51.9	\$11.5	\$11.1
Fishing	\$67.7	\$31.7	507	\$19.0	\$4.5	\$4.4
Hunting & Shooting	\$11.1	\$5.8	111	\$3.4	\$0.8	\$0.6
Picnicking or relaxing	\$23.5	\$11.1	222	\$7.6	\$1.7	\$1.6
Snow Sports	\$43.9	\$24.1	475	\$16.4	\$3.6	\$3.4
Trail Sports	\$220.6	\$112.8	2,279	\$77.5	\$16.9	\$16.5
Water Sports	\$138.5	\$72.5	1,294	\$47.7	\$10.7	\$10.4
Wildlife Watching	\$34.5	\$15.0	174	\$7.8	\$2.0	\$1.5
All Activities	\$788.6	\$400.7	7,652	\$266.4	\$59.4	\$56.9
Total contributions						
Bicycling	\$186.4	\$97.6	1,634	\$62.3	\$14.2	\$11.5
Camping	\$276.1	\$145.7	2,406	\$92.5	\$21.1	\$17.1
Fishing	\$120.1	\$60.4	856	\$35.9	\$8.5	\$6.9
Hunting & Shooting	\$19.7	\$10.5	170	\$6.2	\$1.5	\$1.1
Picnicking or relaxing	\$43.1	\$21.5	353	\$13.7	\$3.1	\$2.5
Snow Sports	\$82.4	\$45.2	739	\$28.7	\$6.6	\$5.2
Trail Sports	\$409.9	\$214.9	3,566	\$137.6	\$31.2	\$25.3
Water Sports	\$253.9	\$135.3	2,075	\$84.6	\$19.5	\$15.9
Wildlife Watching	\$57.1	\$27.4	324	\$15.2	\$3.7	\$2.6
All Activities	\$1,448.8	\$758.6	12,124	\$476.7	\$109.4	\$88.1

Pinal County

Summary of participation and economic contributions of all water-based recreational activity in Pinal County

AZ Resident Participants (thsd)	185.9	GDP (millions)	\$247.1
AZ Resident Days (thsd)	2.31	Jobs (thsd)	4.1
Spending (millions)	\$286.2	Wages (millions)	\$157.3
Output (millions)	\$473.8	Tax revenue* (millions)	\$64.6

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Pinal County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	25.8	405.9
Camping	38.3	70.4
Fishing	67.8	286.6
Hunting & Shooting	39.0	58.8
Picnicking or relaxing	81.2	299.2
Snow Sports	1.3	1.5
Trail Sports	72.5	429.1
Water Sports	26.2	223.4
Wildlife Watching	65.3	534.6

Participation by waterbody within Pinal County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	185.9	2,309.6
Gila River	128.0	863.5
San Pedro River	59.9	231.6
Santa Cruz Lake/River	43.0	199.5
Any unnamed waters	99.3	1,014.9

Spending by outdoor recreationists toward their water-based activity in Pinal County

	Spending (millions)
Bicycling	\$36.0
Camping	\$31.7
Fishing	\$23.7
Hunting & Shooting	\$3.5
Picnicking or relaxing	\$17.5
Snow Sports	\$3.1
Trail Sports	\$96.3
Water Sports	\$66.7
Wildlife Watching	\$7.7
All Activities	\$286.2

Economic contributions of water-based outdoor recreation in Pinal County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$31.7	\$16.2	334	\$11.1	\$2.4	\$2.3
Camping	\$28.3	\$14.6	295	\$9.9	\$2.2	\$2.1
Fishing	\$22.9	\$10.9	204	\$7.0	\$1.6	\$1.5
Hunting & Shooting	\$3.4	\$1.8	46	\$1.2	\$0.3	\$0.2
Picnicking or relaxing	\$15.9	\$7.5	150	\$5.2	\$1.1	\$1.1
Snow Sports	\$2.8	\$1.5	30	\$1.0	\$0.2	\$0.2
Trail Sports	\$85.4	\$43.7	891	\$30.3	\$6.6	\$6.4
Water Sports	\$58.9	\$30.6	598	\$20.8	\$4.6	\$4.4
Wildlife Watching	\$7.6	\$3.4	46	\$1.9	\$0.5	\$0.4
All Activities	\$256.8	\$130.1	2,593	\$88.5	\$19.4	\$18.6
Total contributions						
Bicycling	\$58.8	\$30.8	518	\$19.7	\$4.5	\$3.6
Camping	\$52.7	\$27.8	460	\$17.7	\$4.0	\$3.3
Fishing	\$41.3	\$20.8	327	\$12.8	\$3.0	\$2.4
Hunting & Shooting	\$6.1	\$3.3	65	\$2.1	\$0.5	\$0.3
Picnicking or relaxing	\$29.1	\$14.5	239	\$9.3	\$2.1	\$1.7
Snow Sports	\$5.3	\$2.9	46	\$1.8	\$0.4	\$0.3
Trail Sports	\$158.7	\$83.1	1,390	\$53.5	\$12.1	\$9.8
Water Sports	\$108.9	\$57.6	938	\$36.7	\$8.4	\$6.8
Wildlife Watching	\$12.9	\$6.3	81	\$3.6	\$0.9	\$0.6
All Activities	\$473.8	\$247.1	4,064	\$157.3	\$35.8	\$28.8

Santa Cruz County

Summary of participation and economic contributions of all water-based recreational activity in Santa Cruz County

AZ Resident Participants (thsd)	64.8	GDP (millions)	\$99.3
AZ Resident Days (thsd)	0.78	Jobs (thsd)	1.6
Spending (millions)	\$113.1	Wages (millions)	\$63.4
Output (millions)	\$188.9	Tax revenue* (millions)	\$25.9

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Santa Cruz County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	8.1	127.3
Camping	12.7	49.7
Fishing	16.8	64.7
Hunting & Shooting	4.1	17.9
Picnicking or relaxing	39.4	243.8
Snow Sports	3.0	17.0
Trail Sports	20.8	125.8
Water Sports	5.1	28.6
Wildlife Watching	25.1	103.2

Participation by waterbody within Santa Cruz County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	64.8	777.9
Patagonia Lake State Park	49.8	236.2
Pena Blanca Lake	38.9	131.5
Santa Cruz Lake/River	45.8	199.0
Sonoita Creek	30.7	95.9
Any unnamed waters	21.2	115.3

Spending by outdoor recreationists toward their water-based activity in Santa Cruz County

	Spending (millions)
Bicycling	\$11.1
Camping	\$20.0
Fishing	\$5.2
Hunting & Shooting	\$0.9
Picnicking or relaxing	\$14.3
Snow Sports	\$22.7
Trail Sports	\$27.9
Water Sports	\$9.4
Wildlife Watching	\$1.6
All Activities	\$113.1

Economic contributions of water-based outdoor recreation in Santa Cruz County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$9.8	\$5.0	103	\$3.4	\$0.7	\$0.7
Camping	\$17.8	\$9.2	190	\$6.4	\$1.4	\$1.3
Fishing	\$5.0	\$2.4	45	\$1.5	\$0.3	\$0.3
Hunting & Shooting	\$0.9	\$0.5	13	\$0.3	\$0.1	\$0.0
Picnicking or relaxing	\$13.0	\$6.1	122	\$4.2	\$0.9	\$0.9
Snow Sports	\$21.0	\$11.6	231	\$8.0	\$1.7	\$1.6
Trail Sports	\$24.7	\$12.6	258	\$8.8	\$1.9	\$1.8
Water Sports	\$8.3	\$4.3	82	\$2.9	\$0.6	\$0.6
Wildlife Watching	\$1.5	\$0.7	9	\$0.4	\$0.1	\$0.1
All Activities	\$102.0	\$52.4	1,053	\$35.9	\$7.9	\$7.4
Total contributions						
Bicycling	\$18.1	\$9.5	160	\$6.1	\$1.4	\$1.1
Camping	\$33.2	\$17.5	294	\$11.2	\$2.5	\$2.0
Fishing	\$9.1	\$4.6	72	\$2.8	\$0.7	\$0.5
Hunting & Shooting	\$1.6	\$0.9	18	\$0.6	\$0.1	\$0.1
Picnicking or relaxing	\$23.7	\$11.8	195	\$7.6	\$1.7	\$1.4
Snow Sports	\$39.4	\$21.6	357	\$13.8	\$3.1	\$2.5
Trail Sports	\$45.9	\$24.0	403	\$15.5	\$3.5	\$2.8
Water Sports	\$15.3	\$8.1	129	\$5.1	\$1.2	\$1.0
Wildlife Watching	\$2.6	\$1.3	16	\$0.7	\$0.2	\$0.1
All Activities	\$188.9	\$99.3	1,644	\$63.4	\$14.4	\$11.5

Yavapai County

Summary of participation and economic contributions of all water-based recreational activity in Yavapai County

AZ Resident Participants (thsd)	216.1	GDP (millions)	\$567.5
AZ Resident Days (thsd)	3.53	Jobs (thsd)	9.4
Spending (millions)	\$655.2	Wages (millions)	\$363.6
Output (millions)	\$1,083.3	Tax revenue* (millions)	\$148.6

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Yavapai County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	8.1	127.3
Camping	12.7	49.7
Fishing	16.8	64.7
Hunting & Shooting	4.1	17.9
Picnicking or relaxing	39.4	243.8
Snow Sports	3.0	17.0
Trail Sports	20.8	125.8
Water Sports	5.1	28.6
Wildlife Watching	25.1	103.2

Participation by waterbody within Yavapai County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	216.1	3,529.1
Fossil Creek	71.3	273.9
Oak Creek	141.1	1,681.6
Verde River	104.4	686.7
Any unnamed waters	90.6	886.9

Spending by outdoor recreationists toward their water-based activity in Yavapai County

	Spending (millions)
Bicycling	\$22.0
Camping	\$123.0
Fishing	\$19.7
Hunting & Shooting	\$5.2
Picnicking or relaxing	\$21.5
Snow Sports	\$2.6
Trail Sports	\$222.4
Water Sports	\$229.9
Wildlife Watching	\$8.9
All Activities	\$655.2

Economic contributions of water-based outdoor recreation in Yavapai County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$19.5	\$9.9	203	\$6.8	\$1.5	\$1.4
Camping	\$109.4	\$56.5	1,165	\$39.0	\$8.5	\$8.1
Fishing	\$19.3	\$9.1	158	\$5.6	\$1.3	\$1.3
Hunting & Shooting	\$5.0	\$2.7	70	\$1.9	\$0.4	\$0.3
Picnicking or relaxing	\$19.5	\$9.2	184	\$6.3	\$1.4	\$1.3
Snow Sports	\$2.4	\$1.3	25	\$0.8	\$0.2	\$0.2
Trail Sports	\$197.1	\$100.9	2,065	\$70.1	\$15.2	\$14.7
Water Sports	\$203.8	\$105.5	2,140	\$72.8	\$15.9	\$15.2
Wildlife Watching	\$8.8	\$3.9	50	\$2.2	\$0.5	\$0.4
All Activities	\$584.7	\$299.0	6,061	\$205.6	\$44.9	\$42.9
Total contributions						
Bicycling	\$36.2	\$18.9	317	\$12.1	\$2.7	\$2.2
Camping	\$203.6	\$107.3	1,806	\$68.8	\$15.6	\$12.5
Fishing	\$34.5	\$17.3	259	\$10.5	\$2.5	\$2.0
Hunting & Shooting	\$9.0	\$4.9	98	\$3.2	\$0.7	\$0.5
Picnicking or relaxing	\$35.7	\$17.8	293	\$11.4	\$2.6	\$2.0
Snow Sports	\$4.5	\$2.4	39	\$1.5	\$0.4	\$0.3
Trail Sports	\$366.4	\$191.9	3,216	\$123.7	\$27.9	\$22.6
Water Sports	\$378.5	\$199.7	3,328	\$128.2	\$29.0	\$23.4
Wildlife Watching	\$14.9	\$7.2	91	\$4.1	\$1.0	\$0.7
All Activities	\$1,083.3	\$567.5	9,447	\$363.6	\$82.4	\$66.2

Yuma County

Summary of participation and economic contributions of all water-based recreational activity in Yuma County

AZ Resident Participants (thsd)	92.1	GDP (millions)	\$194.3
AZ Resident Days (thsd)	2.57	Jobs (thsd)	3.2
Spending (millions)	\$224.4	Wages (millions)	\$123.2
Output (millions)	\$372.0	Tax revenue* (millions)	\$50.7

Note: Participation reflects Arizona residents only. Spending and economic contributions reflect economic activity generated by both residents and non-residents. Tax revenue includes federal, state and local revenues.

Activity specific participation in outdoor recreational activity on or along the water within Yuma County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
Bicycling	11.9	172.1
Camping	28.3	106.9
Fishing	18.7	119.4
Hunting & Shooting	9.4	16.1
Picnicking or relaxing	42.2	147.3
Snow Sports	0.6	0.8
Trail Sports	30.0	175.0
Water Sports	33.3	275.3
Wildlife Watching	36.0	1,555.1

Participation by waterbody within Yuma County

	AZ Resident Participants (thsd)	AZ Resident Days (thsd)
All Waterbodies	92.1	2,567.8
Colorado River and lakes /reservoirs/wildlife refuges along Colorado River	83.0	2,162.7
Gila River	45.1	212.6
Any unnamed waters	25.2	192.6

Spending by outdoor recreationists toward their water-based activity in Yuma County

	Spending (millions)
Bicycling	\$16.3
Camping	\$45.9
Fishing	\$15.0
Hunting & Shooting	\$2.2
Picnicking or relaxing	\$8.6
Snow Sports	\$2.1
Trail Sports	\$42.0
Water Sports	\$80.1
Wildlife Watching	\$12.2
All Activities	\$224.4

Economic contributions of water-based outdoor recreation in Yuma County by activity type

	Output (millions)	GDP (millions)	Jobs	Wages (millions)	Tax Revenues (millions)	
					Federal	State/Local
Direct contributions						
Bicycling	\$14.4	\$7.4	150	\$5.0	\$1.1	\$1.1
Camping	\$40.9	\$21.1	430	\$14.4	\$3.2	\$3.0
Fishing	\$14.7	\$6.9	118	\$4.3	\$1.0	\$1.0
Hunting & Shooting	\$2.1	\$1.1	22	\$0.7	\$0.2	\$0.1
Picnicking or relaxing	\$7.8	\$3.7	74	\$2.5	\$0.6	\$0.5
Snow Sports	\$1.9	\$1.0	19	\$0.7	\$0.1	\$0.1
Trail Sports	\$37.3	\$19.1	386	\$13.1	\$2.9	\$2.8
Water Sports	\$70.7	\$36.7	724	\$25.1	\$5.5	\$5.3
Wildlife Watching	\$11.9	\$5.5	85	\$3.3	\$0.8	\$0.7
All Activities	\$201.8	\$102.5	2,008	\$69.1	\$15.3	\$14.6
Total contributions						
Bicycling	\$26.8	\$14.0	234	\$9.0	\$2.0	\$1.7
Camping	\$76.1	\$40.1	669	\$25.6	\$5.8	\$4.7
Fishing	\$26.3	\$13.2	195	\$8.0	\$1.9	\$1.5
Hunting & Shooting	\$3.7	\$2.0	33	\$1.2	\$0.3	\$0.2
Picnicking or relaxing	\$14.3	\$7.1	118	\$4.6	\$1.0	\$0.8
Snow Sports	\$3.5	\$1.9	31	\$1.2	\$0.3	\$0.2
Trail Sports	\$69.4	\$36.4	604	\$23.3	\$5.3	\$4.3
Water Sports	\$131.0	\$69.3	1,133	\$44.2	\$10.0	\$8.1
Wildlife Watching	\$20.8	\$10.3	145	\$6.2	\$1.4	\$1.1
All Activities	\$372.0	\$194.3	3,161	\$123.2	\$28.1	\$22.6

