

# Responsive Management™



## **2013 ECONOMIC IMPACT OF FISHING IN ARIZONA**

**Conducted for the Arizona Game and Fish Department  
by Anthony Fedler, PhD., and Responsive Management**

**2014**

# **2013 ECONOMIC IMPACT OF FISHING IN ARIZONA**

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## **INTRODUCTION**

This economic analysis is a companion report to a 2014 study conducted by Responsive Management (RM) for the Arizona Department of Game and Fish (hereinafter referred to as the Department). The purpose of the study was to determine the views of Arizona's anglers on various regulations, their satisfactions and dissatisfactions with fishing in Arizona, the fishing methods and locations they typically used, and their fishing-related expenditures in Arizona during 2013. This report is concerned with the data gathered on the last point: it uses these expenditure data to produce an analysis of the 2013 economic impact of fishing in Arizona.

## **SURVEY METHODOLOGY**

The study conducted by Responsive Management entailed a multi-modal survey of Arizona license-buying anglers. Internet and telephone surveys were developed and pre-tested to ensure proper wording, flow and logic in the surveys. Prior to the survey being administered, sample members were sent a postcard to encourage participation in the survey and offered two modes (telephone and Internet) for completing the survey. Because of the length of the survey, randomly selected subsets of the survey sample were administered selected question sets to avoid respondent fatigue, improve the quality of responses, and optimize the survey response rate.

The survey obtained data from a scientifically selected random sample, stratified by county, using telephone and Internet modes. The sample was drawn from a database of Arizona's licensed anglers (resident and nonresident), obtained from the Department. Resident license buyers were stratified by county of residence with the goal being a large enough sample size in each county to be statistically valid. A sample of non-residents was also surveyed.

The survey obtained data by telephone and the Internet. This approach allowed for a large number of anglers to be surveyed while still maintaining the representativeness of the sample. The multi-modal approach is also the most convenient for the respondents.

The entire sample included some anglers in the database who had not fished in Arizona in 2013. Some questions were asked of the entire sample, while other questions were asked only of those who had fished in 2013. The overall response rate for the Internet and telephone surveys combined was approximately 30%.

One important aspect of the data analysis was to look at fishing location information, which included obtaining data about the water body in Arizona in which the angler fished. The survey used a list of 93 water bodies or sections of water bodies provided by the Department. When an angler was unsure of the name of the water body, the survey asked the respondent to describe the location using local landmarks for later identification by researchers.

## **CALCULATING ANGLER EXPENDITURES**

It is important to understand how this economic analysis was conducted in order to recognize what the results reported in each table or graph represent. The overall focus of this analysis was to produce angler expenditure totals for specific locations by those anglers fishing in each location. Angler expenditure totals were driven by two elements; the number of angler user days (AUD) for fishing in a waterbody, watershed, county or in the state and the mean expenditure per day made by each angler.

AUDs for each waterbody were calculated by Arizona Fish and Game (AFG) researchers based on license sales and results from the 2013 angler survey (Responsive Management 2014).

Waterbodies were grouped by county location and watershed for analysis and reporting purposes and were the basic unit of analysis for reporting. From a statewide perspective, the AFG was not only interested in total expenditures made by anglers, but wanted to know where anglers made their expenditures as well. Thus, the focus of the analysis was placed on where angling expenditures occurred, and by whom, for each county or watershed; in the county or watershed of residence, in a destination county or watershed by residents living outside the county or watershed, and a county or watershed by non-residents.

To estimate expenditures by anglers in each county or watershed, it was necessary to use angler expenditures per day as the basic computational unit. A series of calculations were used to estimate angler expenditures per day for each of 28 fishing trip, fishing equipment and auxiliary equipment expenditure items in the angler survey and assign a proportion of each expenditure to where it occurred; those made in the angler's residential county, those made by anglers traveling outside their counties to fish, and those made by non-resident anglers traveling to a specific county. This was accomplished by multiplying expenditures for each of the 28 items by the percentage of where expenditures occurred as reported by each angler.

For example, suppose an angler spent a total of \$500 during the year on food and reported that 60% was spent in the county of residence, 10% while traveling to a destination out of the county, and 30% in the county where fishing occurred outside the residential county. This would result in \$300 being allocated to the resident county, \$50 while traveling and \$150 while at the fishing destination. To estimate daily spending, expenditures in the county of residence were divided by the number of days the angler fish within the residential county. Similarly, expenditures while traveling and expenditures at fishing destinations outside the residential county were each divided by the number of days fishing locations outside of the residential county.

The estimation of angler spending statewide was achieved by summing the daily expenditures for each of the 28 items to produce a total daily expenditure for an angler for each item. The mean daily expenditure for all anglers was multiplied by the total AUDs for the state to produce a statewide total of direct expenditures for each item.

County expenditure calculations consisted of four steps. The first was to multiply the mean daily in-county expenditure by the number of AUDs attributed to county residents for that county. In the second step, the mean daily expenditure for non-county Arizona residents fishing in the county was multiplied by the appropriate county AUDs. Third, the mean expenditure made in destination counties by non-residents was multiplied by their appropriate AUDs for the county. Finally, the three calculations were summed to produce total expenditures made in the county. It should be noted that there were no angler user days for Pinal County. This occurred because none of the respondents from the mail survey indicated they had fished in Pinal County.

Expenditure estimates for watersheds were made in a similar fashion but were also based on waterbody fished and county of residence. Fortunately, most of the 93 waterbodies or waterbody segments were contained within a single county which greatly facilitated calculating economic impacts at the waterbody and watershed levels. Economic impacts for watersheds were derived by summing the impacts for individual waterbodies within the watershed.

Procedures for calculating direct expenditures for each waterbody consisted of four steps. The first was to multiply the mean daily in-county expenditure by the number of AUDs attributed to county residents where the waterbody was located. Second, the mean daily out-of-county expenditure made by out-of-county Arizona residents fishing the waterbody was multiplied by the appropriate AUDs for Arizona non-county residents. Third, the mean expenditure made in a

destination county by non-residents was multiplied by non-resident AUDs for the waterbody. The sum of these three calculations resulted in the total direct expenditures attributed to a given waterbody. The sum of the direct expenditures for all of the waterbodies within a watershed was the total direct expenditures for the watershed.

A distinction needs to be made between estimates for statewide expenditures, and county and watershed expenditures. Statewide expenditure estimates were based on all expenditures made in Arizona by an angler. That is, expenditures made by Arizona residents while fishing in their county of residence, while traveling to a destination county, and while fishing in a destination county. On the other hand, expenditures made in a specific county or watershed were based only on those expenditures made by residents of the county or watershed and those of anglers fishing in the specific county or watershed but not residing there. Expenditures while traveling between the county of residence and other counties for fishing were not included in individual county or watershed estimates because they occurred outside of a particular county or watershed where the fishing occurred. Further, only destination county fishing expenditures were used for non-resident anglers. Non-resident angler expenditures in their home counties cannot be attributed to economic impacts in Arizona. Likewise, expenditures made while traveling from the residence to an Arizona fishing destination cannot be attributed to Arizona because there was no way to determine if and how much of these expenses were made in Arizona or in another state. Thus, county and watershed angler expenditure and associated economic impact totals, when summed, will be lower than the statewide total.

## **CALCULATING ECONOMIC IMPACTS**

The basis for estimating the economic impacts of angling in Arizona are the reported expenditures by anglers for 28 fishing-related items collected in the telephone and online surveys. Total expenditures for these 28 items are presented for the State of Arizona only. Total fishing expenditures for each county are presented in six aggregated categories shown in Figure 1. For waterbody and watershed direct expenditures, only totals for all expenditures are presented.

**Figure 1: Fishing Expenditure Groups Used for County Analyses**

1. Food, Restaurants
2. Lodging
3. Transportation (including vehicle fuel)
4. Other (Equipment Rental, Boat Fuel, Boat Launch Fees, and Fishing Guide Fees)
5. Fishing Equipment (Rods & Reels; Live Bait; Artificial Baits; Lures, Hooks, Swivels & Sinkers; Tackle Boxes; Creels, Stringers & Fish Bags; Depth & Fish Finders, Other Electronic Equipment, Other Fishing Equipment)
6. Auxiliary Equipment (Clothing, Waders, Four Weather Gear; PFD's & Life Jackets; First Aid Supplies & Medical Treatment Related to Fishing; Camping Equipment; Boat Equipment, Motors & Parts; Boat Maintenance & Insurance; Canoe Maintenance & Insurance; Fishing Licenses, Stamps & Tags; Fishing Club or Association Dues and Fees; Fishing Club, Association or Organization Donations; Fish Mounting, Processing & Taxidermy; Gifts & Souvenirs; Large Equipment, Campers, Boats, RV's)

The estimation of economic impacts resulting from angler expenditures relied upon data provided by the Bureau of Economic Analysis<sup>1</sup> (BEA). RIMS II multipliers were obtained at the state and county level that included coefficients for multiplier effects (indirect and induced impacts), earnings, and jobs.

To calculate the impacts of angler spending, direct expenditures for each of the 28 expenditure items were multiplied by the appropriate state-level or county-level coefficients for multipliers, earnings and jobs. For example, to calculate the impacts of food and drink expenditures, total direct expenditures for this item was multiplied by its respective state multiplier effect, earnings and jobs coefficients to produce totals for the expenditure category. These calculations for the Food and Restaurant expenditure category totaling \$205,713,606 are shown in Table 1.

These calculations were performed for each of the 28 expenditure items and summed to produce the overall statewide economic impacts of fishing during 2013. Similarly, county-level coefficients were applied to each expenditure item total for the county and summed to produce county impact totals.

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<sup>1</sup> Bureau of Economic Analysis (BEA). 1997. Regional Multipliers: A User Handbook for the Regional Input-Output Modeling System (RIMS II). Washington, DC: U.S. Government Printing Office.

**Table 1: Impact Calculations for Statewide Angler Food and Restaurant Expenditures**

<b>Food &amp; Restaurant</b>	<b>Direct Expenditure</b>	<b>Multiplier Effect</b>	<b>Earnings</b>	<b>Jobs</b>
State Coefficient	N/A	1.6825	0.59172	0.00002185
State Impact	\$205,713,606	\$346,113,142	\$121,724,855	4,495

Impact calculations for each waterbody were made the same as the county calculations. Direct expenditure totals for each expenditure item were multiplied by the county impact coefficients applied based on the waterbody’s county location. Direct expenditures, multiplier effects, earnings and jobs totals were each added across all expenditure items to produce totals for each waterbody. Totals for all waterbodies within a watershed were then summed to produce direct expenditures, multiplier effects, earnings and jobs total for the watershed. Thus, impact totals from watersheds cutting across two or more counties were comprised of a mixture of impact coefficients from the waterbodies/counties within the watershed.

## ECONOMIC IMPACT ANALYSIS RESULTS

### STATEWIDE ECONOMIC IMPACTS

**Table 2: Annual User Days by County**

	Angler User Days			
	Resident County	Traveling	Non-Resident	Total
Arizona	3,327,886	2,359,357	292,394	5,979,637
Apache	42,639	301,445	15,273	359,357
Cochise	39,325	23,799	4,501	67,625
Coconino	237,016	613,533	29,931	880,479
Gila	131,646	486,432	43,459	661,537
Graham	40,593	35,451	2,042	78,086
Greenlee	4,592	341	—	4,934
La Paz	24,020	152,653	30,253	206,927
Maricopa	1,573,529	231,910	47,846	1,853,285
Mohave	458,866	69,925	82,270	611,061
Navajo	143,628	142,041	6,274	291,943
Pima	224,046	10,486	4,549	239,082
Santa Cruz	21,405	150,942	2,185	174,532
Yavapai	188,926	105,223	6,538	300,687
Yuma	197,655	35,175	17,272	250,102

*Note: Pinal County had no angler user days reported in the survey.*

**Table 3: Statewide Annual Expenditures for Fishing by Category**

<b>Fishing Trip Expenditures</b>	<b>Amount</b>
Food, Drink, Groceries	\$205,713,606
Lodging	\$79,052,870
Equipment Rental	\$35,113,627
Fuel for Vehicles	\$170,002,797
Boat Fuel	\$43,223,178
Boat Launch Fees	\$8,013,991
Fishing Guide Fees	\$17,822,827
<b>Fishing Equipment Expenditures</b>	
Rods & Reels	\$68,423,465
Live Bait	\$17,958,193
Artificial Baits a& Lures	\$34,576,290
Hooks, Swivels & Sinkers	\$12,269,471
Tackle Boxes	\$4,342,755
Creels, Stringers & Fish Bags	\$1,991,985
Depth & Fish Finders, Other Electronic Equipment	\$11,359,684
Other Fishing Equipment	\$5,191,938
<b>Auxiliary Equipment</b>	
Clothing, Waders, Four Weather Gear	\$13,766,921
PFD's & Life Jackets	\$4,210,084
First Aid Supplies & Medical Treatment Related to Fishing	\$2,505,577
Camping Equipment	\$29,640,335
Boat Equipment, Motors, Parts	\$23,867,655
Boat Maintenance & Insurance	\$36,643,770
Canoe Maintenance & Insurance	\$1,761,837
Fishing Licenses, Stamps & Tags	\$44,102,331
Fishing Club or Association Dues and Fees	\$963,893
Fishing Club, Association or Organization Donations	\$1,656,995
Fish Mounting, Processing & Taxidermy	\$148,212
Gifts & Souvenirs	\$5,398,693
Large Equipment; Campers, Boats, RV's	\$77,684,299
<b>Total</b>	<b>\$957,407,280</b>

**Table 4: Angler Direct Expenditures by Category for Arizona**

<b>Expenditure Category</b>	<b>Resident County</b>	<b>Traveling</b>	<b>Non-Resident</b>	<b>Total Expenditures</b>
Food	\$125,374,985	\$67,101,557	\$13,237,064	\$205,713,606
Lodging	\$12,501,966	\$52,024,864	\$14,526,041	\$79,052,870
Transportation	\$110,842,374	\$52,559,041	\$6,601,383	\$170,002,797
Other	\$58,960,048	\$31,696,920	\$13,516,655	\$104,173,623
Fishing Equipment	\$107,088,089	\$28,908,048	\$3,566,023	\$139,562,160
Auxiliary Equipment	\$224,490,999	\$28,549,389	\$5,861,836	\$258,902,223
<b>Total</b>	<b>\$639,258,461</b>	<b>\$260,839,818</b>	<b>\$57,309,001</b>	<b>\$957,407,280</b>

**Table 5: Angler Expenditures and Economic Impacts for Arizona**

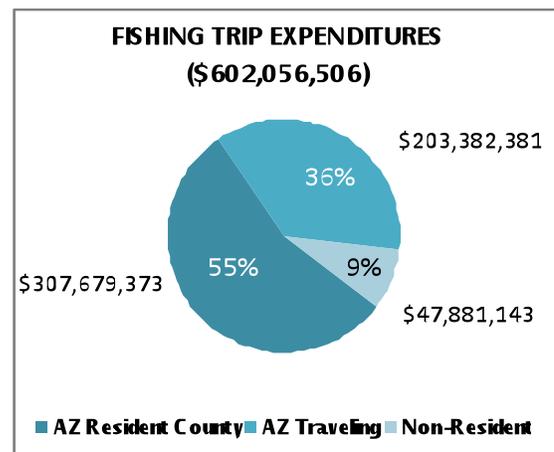
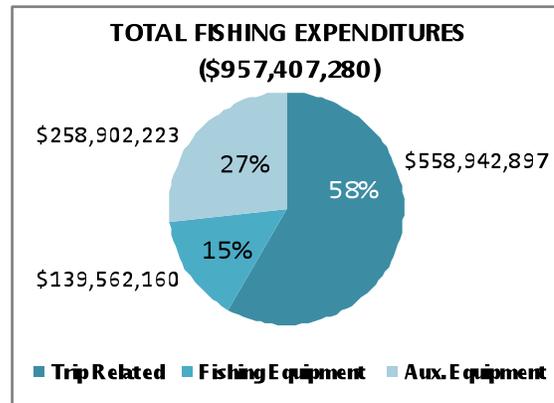
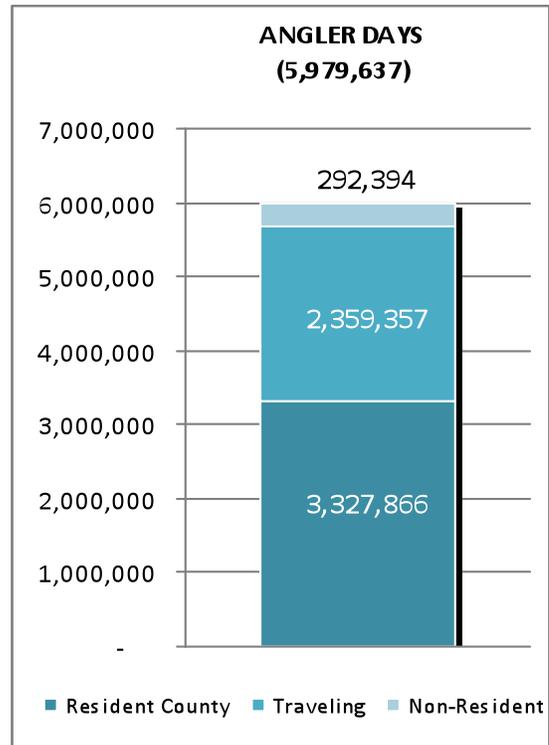
<b>Expenditure Category</b>	<b>Direct Expenditures</b>	<b>Multiplier Effects</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax Revenues</b>
Food	\$205,713,606	\$353,827,402	\$121,364,959	4,305	\$13,306,184
Lodging	\$79,052,870	\$132,808,822	\$46,638,862	1,655	\$5,113,381
Transportation	\$170,002,797	\$282,204,643	\$100,296,636	3,558	\$10,996,300
Other	\$104,173,623	\$152,093,490	\$61,459,365	2,180	\$6,738,268
Fishing Equipment	\$139,562,160	\$191,200,159	\$82,337,557	2,921	\$9,027,307
Auxiliary Equipment	\$258,902,223	\$359,874,091	\$152,744,675	5,419	\$16,746,586
<b>Total</b>	<b>\$957,407,280</b>	<b>\$1,472,008,607</b>	<b>\$564,842,053</b>	<b>20,038</b>	<b>\$61,928,026</b>

# State of Arizona

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$957,407,280</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$1,472,008,607</b>
<b>SALARIES AND WAGES</b>	<b>\$564,842,053</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>20,038</b>
<b>STATE TAX REVENUES</b>	<b>\$61,928,026</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>5,979,637</b>
AZ Resident in Own County	3,327,886
AZ Resident Traveling	2,359,357
Non-Resident	292,394

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$957,407,280</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$558,942,897</b>
Food, Restaurant	\$205,713,606
Lodging	\$79,052,870
Transportation	\$170,002,797
Other	\$104,173,623
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$398,464,383</b>
Fishing Equipment	\$139,562,160
Auxiliary Equipment	\$258,902,223



## COUNTY ECONOMIC IMPACT

**Table 6: 2013 Estimated Angler User Days by Arizona County**

County	Residents	Traveling	Non-Resident	Total
Apache	42,639	301,445	15,273	359,357
Cochise	39,325	23,799	4,501	67,625
Coconino	237,016	613,533	29,931	880,479
Gila	131,646	486,432	43,459	661,537
Graham	40,593	35,451	2,042	78,086
Greenlee	4,592	341	—	4,934
La Paz	24,020	152,653	30,253	206,927
Maricopa	1,573,529	231,910	47,846	1,853,285
Mohave	458,866	69,925	82,270	611,061
Navajo	143,628	142,041	6,274	291,943
Pima	224,046	10,486	4,549	239,082
Santa Cruz	21,405	150,942	2,185	174,532
Yavapai	188,926	105,223	6,538	300,687
Yuma	197,655	35,175	17,272	250,102
<b>State Total</b>	<b>3,327,886</b>	<b>2,359,357</b>	<b>292,394</b>	<b>5,979,637</b>
<i>Note: Pinal County had no angler user days reported in the survey.</i>				

**Table 7: Expenditures and Economic Impact of Angler Spending by County**

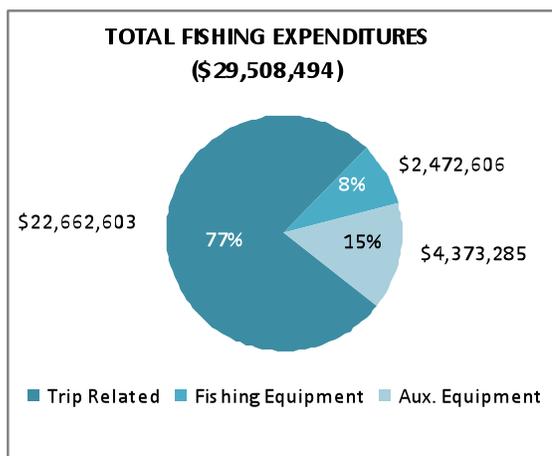
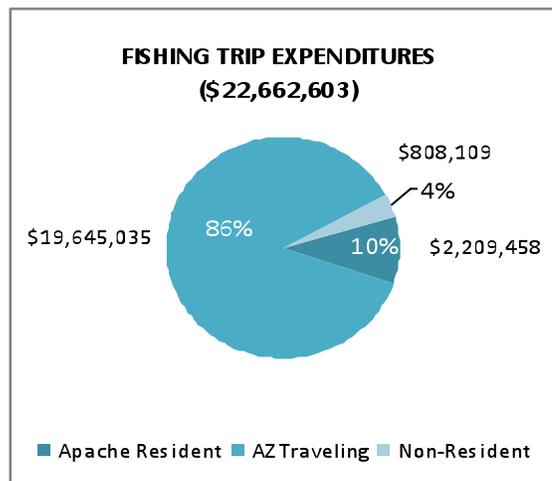
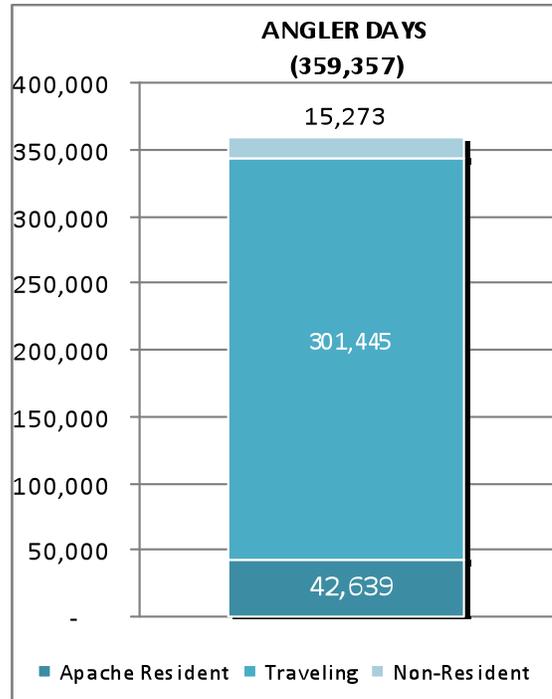
<b>County</b>	<b>Direct Expenditures</b>	<b>Multiplier Effects</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax</b>
Apache	\$29,501,192	\$33,823,023	\$4,180,901	474	\$1,597,198
Cochise	\$14,820,043	\$17,737,375	\$2,800,638	226	\$776,827
Coconino	\$100,426,781	\$123,945,702	\$22,129,617	1,846	\$5,954,157
Gila	\$53,994,388	\$64,135,466	\$10,278,120	1,054	\$2,466,749
Graham	\$6,150,989	\$7,330,630	\$1,154,364	104	\$342,012
Greenlee	\$1,831,931	\$1,978,485	\$205,176	26	\$31,876
La Paz	\$23,145,991	\$27,177,035	\$5,331,380	302	\$1,068,227
Maricopa	\$387,697,170	\$488,176,144	\$97,611,363	5,100	\$19,996,114
Mohave	\$111,640,669	\$138,328,238	\$24,731,412	2,350	\$5,449,294
Navajo	\$42,359,105	\$48,719,330	\$6,360,226	691	\$1,653,659
Pima	\$48,729,769	\$60,551,784	\$10,553,311	685	\$3,114,092
Santa Cruz	\$12,629,332	\$15,173,370	\$2,453,180	197	\$835,807
Yavapai	\$51,808,207	\$64,630,739	\$12,693,011	1,050	\$2,978,972
Yuma	\$24,467,910	\$30,048,310	\$5,580,400	493	\$1,287,785
Arizona	\$942,425,890	\$1,381,622,281	\$308,992,095	19,724	\$60,958,984

# Apache County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	
	<b>\$29,508,494</b>
<b>TOTAL MULTIPLIER EFFECT</b>	
	<b>\$33,831,394</b>
<b>SALARIES AND WAGES</b>	
	<b>\$4,181,936</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	
	<b>475</b>
<b>STATE TAX REVENUES</b>	
	<b>\$1,597,594</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	
	<b>359,357</b>
AZ Resident in Own County	42,639
AZ Resident Traveling	301,445
Non-Resident	15,273

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	
	<b>\$29,508,494</b>
<b>TOTAL TRIP-RELATED</b>	
	<b>\$22,662,603</b>
Food, Restaurant	\$7,902,262
Lodging	\$6,456,387
Transportation	\$5,767,997
Other	\$2,535,957
<b>TOTAL EQUIPMENT EXPENDITURES</b>	
	<b>\$6,845,891</b>
Fishing Equipment	\$2,472,606
Auxiliary Equipment	\$4,373,285

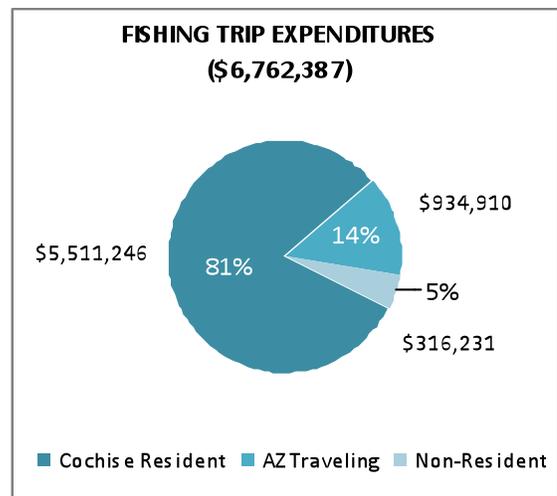
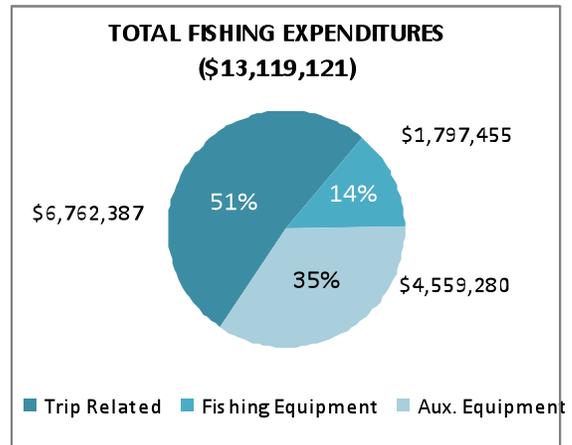
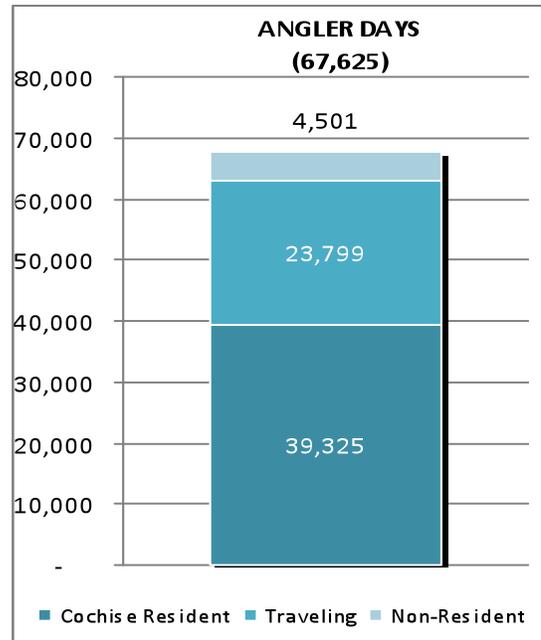


# Cochise County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	
	<b>\$13,119,121</b>
<b>TOTAL MULTIPLIER EFFECT</b>	
	<b>\$15,701,625</b>
<b>SALARIES AND WAGES</b>	
	<b>\$2,479,204</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	
	<b>200</b>
<b>STATE TAX REVENUES</b>	
	<b>\$687,669</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	
	<b>67,625</b>
AZ Resident in Own County	39,325
AZ Resident Traveling	23,799
Non-Resident	4,501

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	
	<b>\$13,119,121</b>
<b>TOTAL TRIP-RELATED</b>	
	<b>\$6,762,387</b>
Food, Restaurant	\$2,770,741
Lodging	\$445,259
Transportation	\$2,674,699
Other	\$871,688
<b>TOTAL EQUIPMENT EXPENDITURES</b>	
	<b>\$6,356,734</b>
Fishing Equipment	\$1,797,455
Auxiliary Equipment	\$4,559,280

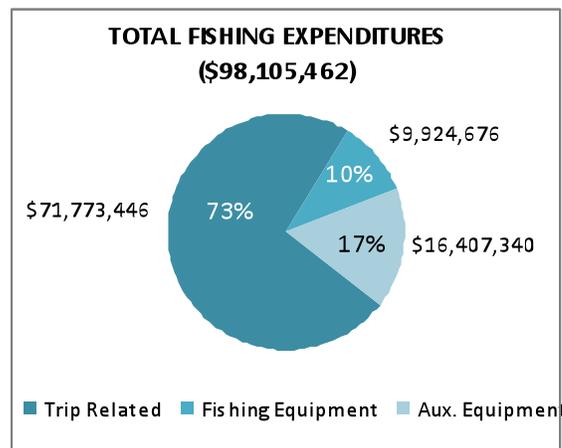
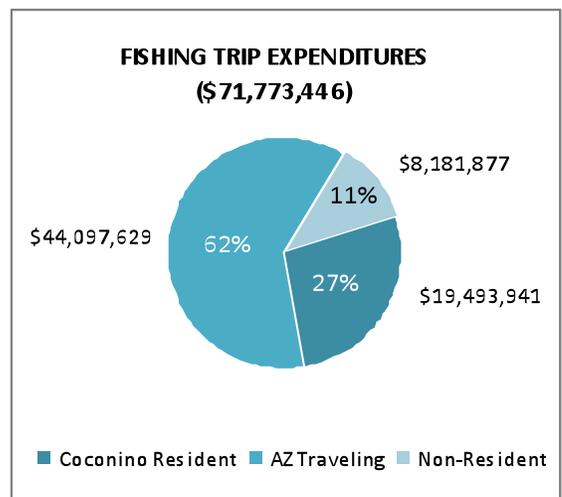
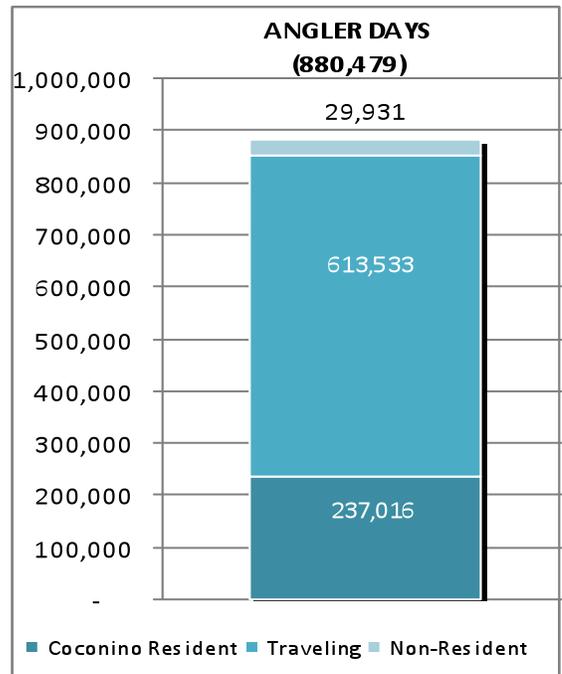


# Coconino County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$98,105,462</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$121,080,753</b>
<b>SALARIES AND WAGES</b>	<b>\$21,618,101</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>1,803</b>
<b>STATE TAX REVENUES</b>	<b>\$5,816,529</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>880,479</b>
AZ Resident in Own County	237,016
AZ Resident Traveling	613,533
Non-Resident	29,931

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$98,105,462</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$71,773,446</b>
Food, Restaurant	\$23,818,606
Lodging	\$14,339,596
Transportation	\$18,406,089
Other	\$15,209,155
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$26,332,016</b>
Fishing Equipment	\$9,924,676
Auxiliary Equipment	\$16,407,340

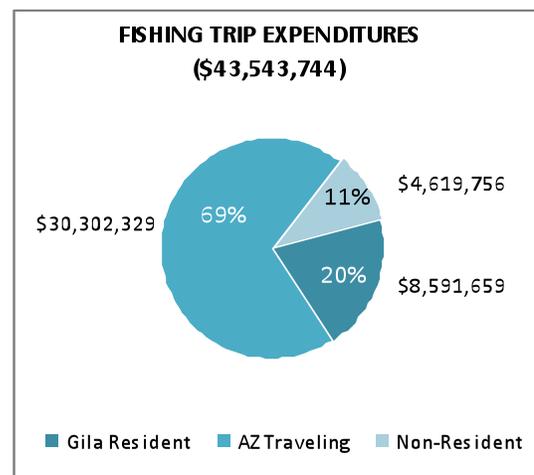
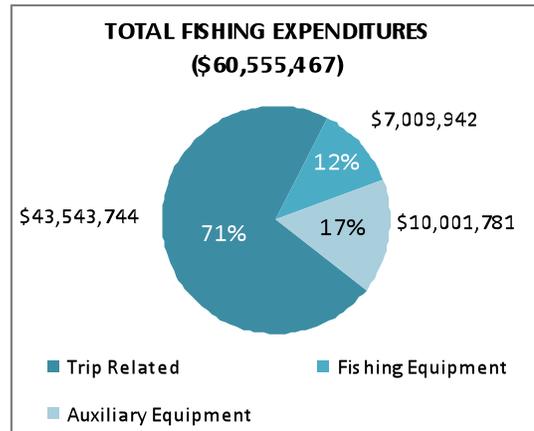
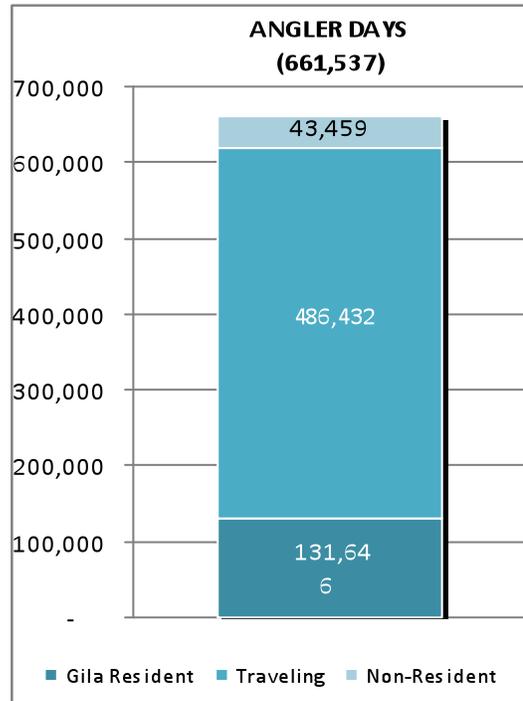


# Gila County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$60,555,467</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$71,928,829</b>
<b>SALARIES AND WAGES</b>	<b>\$11,527,056</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>1,182</b>
<b>STATE TAX REVENUES</b>	<b>\$2,766,493</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>661,537</b>
AZ Resident in Own County	131,646
AZ Resident Traveling	486,432
Non-Resident	43,459

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$60,555,467</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$43,543,744</b>
Food, Restaurant	\$14,595,614
Lodging	\$8,666,124
Transportation	\$12,722,264
Other	\$7,559,742
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$17,011,723</b>
Fishing Equipment	\$7,009,942
Auxiliary Equipment	\$10,001,781

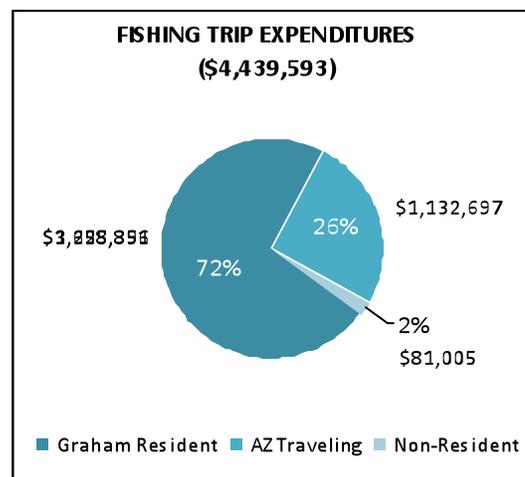
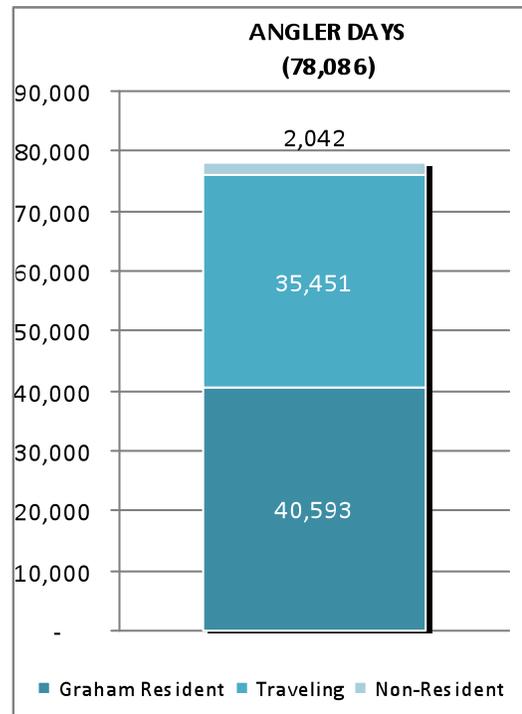
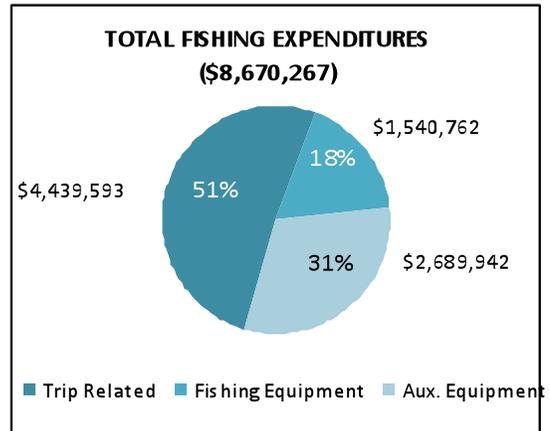


# Graham County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$8,670,267</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$10,333,058</b>
<b>SALARIES AND WAGES</b>	<b>\$1,627,160</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>147</b>
<b>STATE TAX REVENUES</b>	<b>\$482,091</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>78,086</b>
AZ Resident in Own County	40,593
AZ Resident Traveling	35,451
Non-Resident	2,042

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$8,670,267</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$4,439,593</b>
Food, Restaurant	\$1,770,785
Lodging	\$499,949
Transportation	\$1,616,971
Other	\$551,887
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$4,230,674</b>
Fishing Equipment	\$1,540,732
Auxiliary Equipment	\$2,689,942

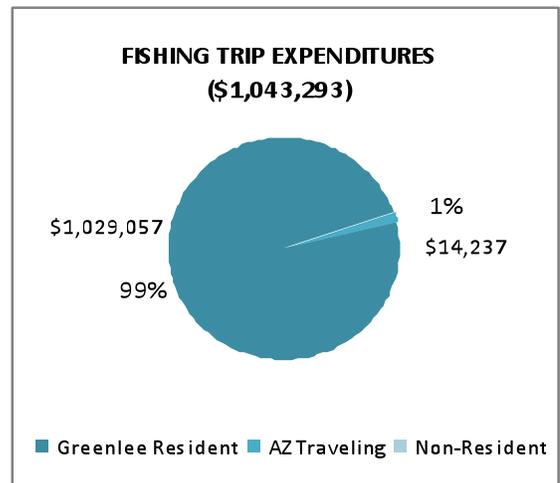
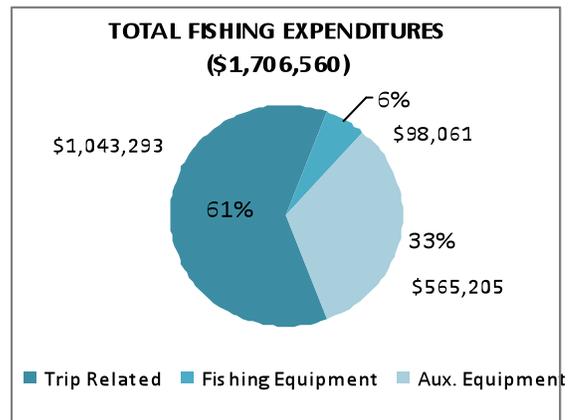
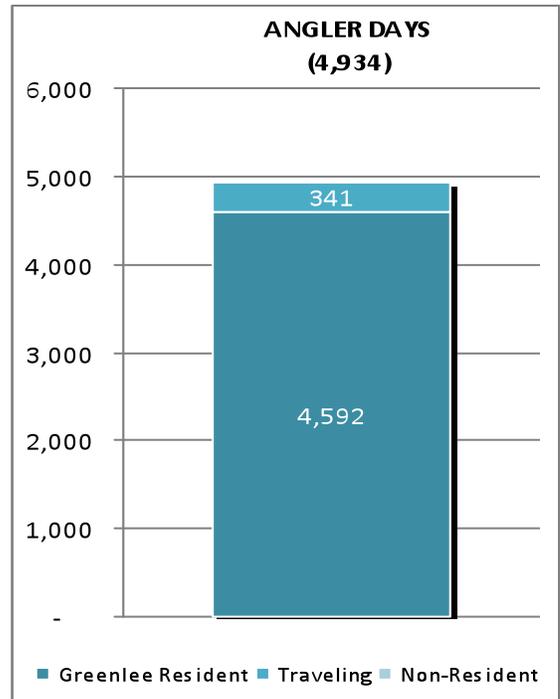


# Greenlee County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	
	<b>\$1,706,560</b>
<b>TOTAL MULTIPLIER EFFECT</b>	
	<b>\$1,843,085</b>
<b>SALARIES AND WAGES</b>	
	<b>\$191,135</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	
	<b>24</b>
<b>STATE TAX REVENUES</b>	
	<b>\$29,694</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	
	<b>4,934</b>
AZ Resident in Own County	4,592
AZ Resident Traveling	341
Non-Resident	—

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	
	<b>\$1,706,560</b>
<b>TOTAL TRIP-RELATED</b>	
	<b>\$1,043,293</b>
Food, Restaurant	\$230,740
Lodging	\$940
Transportation	\$806,329
Other	\$5,285
<b>TOTAL EQUIPMENT EXPENDITURES</b>	
	<b>\$663,267</b>
Fishing Equipment	\$98,061
Auxiliary Equipment	\$565,205

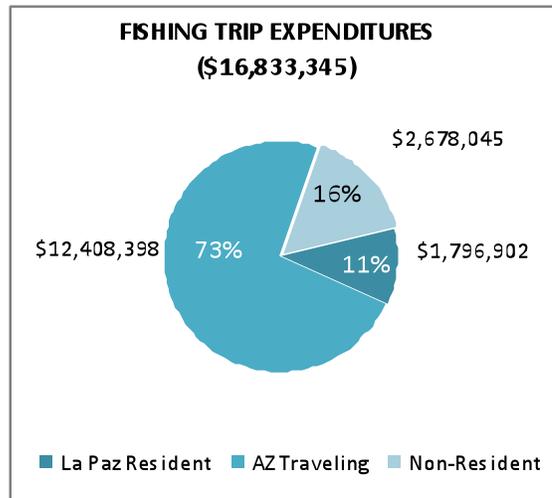
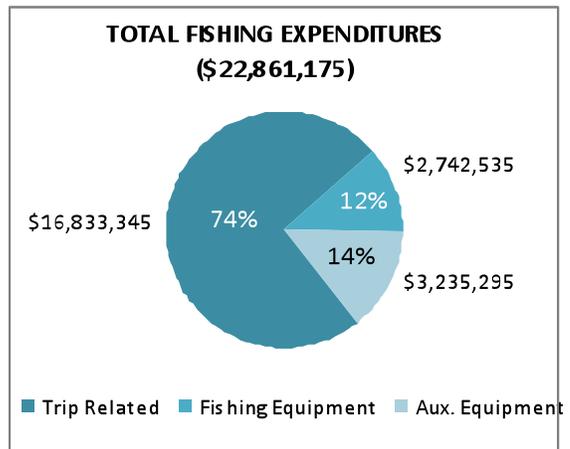
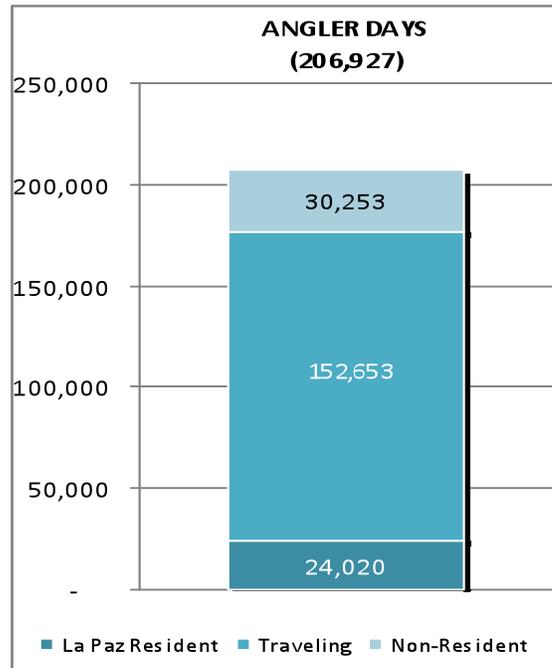


# La Paz County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$22,861,175</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$26,842,616</b>
<b>SALARIES AND WAGES</b>	<b>\$5,265,776</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>298</b>
<b>STATE TAX REVENUES</b>	<b>\$1,055,082</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>206,927</b>
AZ Resident in Own County	24,020
AZ Resident Traveling	152,653
Non-Resident	30,253

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$22,861,175</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$16,883,345</b>
Food, Restaurant	\$5,028,196
Lodging	\$5,906,623
Transportation	\$3,430,205
Other	\$2,518,320
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$5,977,831</b>
Fishing Equipment	\$2,742,535
Auxiliary Equipment	\$3,235,295

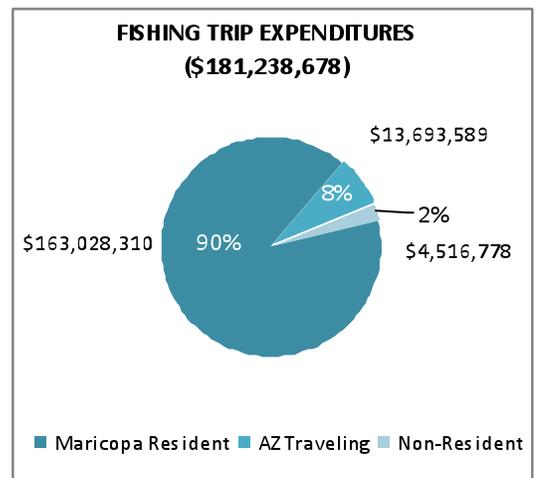
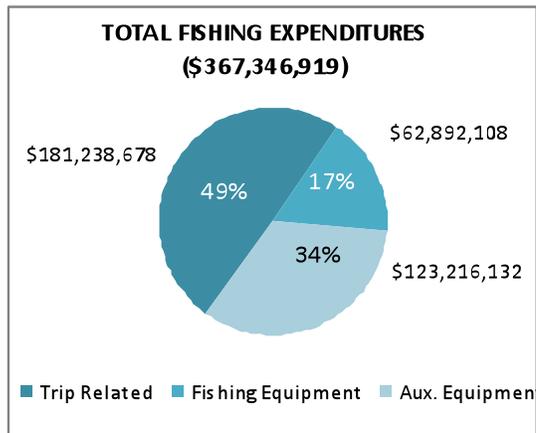
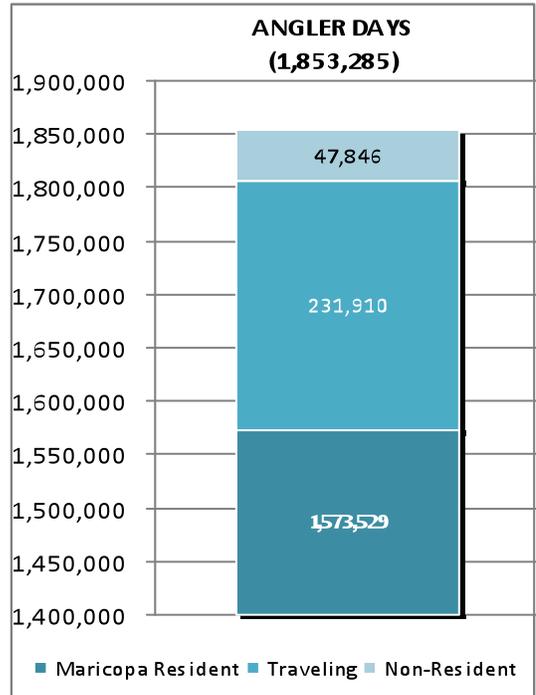


# Maricopa County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$367,346,919</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$462,551,743</b>
<b>SALARIES AND WAGES</b>	<b>\$92,487,736</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>4,833</b>
<b>STATE TAX REVENUES</b>	<b>\$18,946,517</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>1,853,285</b>
AZ Resident in Own County	1,573,529
AZ Resident Traveling	231,910
Non-Resident	47,846

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$367,346,919</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$181,238,678</b>
Food, Restaurant	\$74,908,003
Lodging	\$9,945,509
Transportation	\$60,091,549
Other	\$36,293,617
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$186,108,241</b>
Fishing Equipment	\$62,892,108
Auxiliary Equipment	\$123,216,132

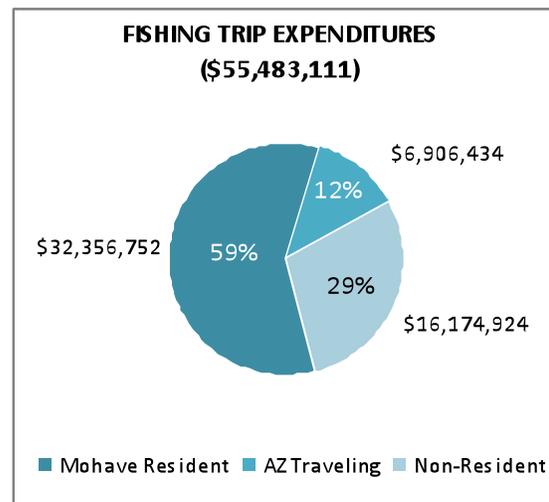
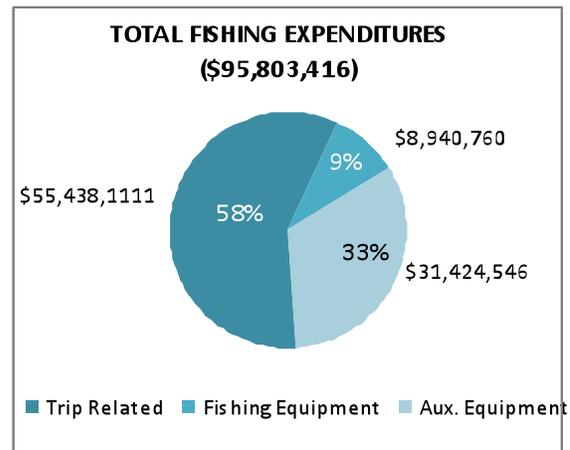
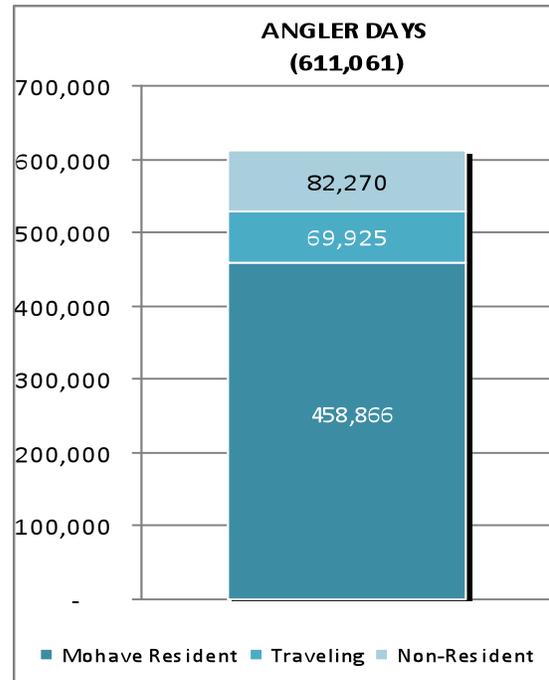


# Mohave County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$95,803,416</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$118,705,109</b>
<b>SALARIES AND WAGES</b>	<b>\$21,223,035</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>2,017</b>
<b>STATE TAX REVENUES</b>	<b>\$4,676,262</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>611,061</b>
AZ Resident in Own County	458,866
AZ Resident Traveling	69,925
Non-Resident	82,270

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$95,803,416</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$55,438,111</b>
Food, Restaurant	\$15,501,495
Lodging	\$7,887,833
Transportation	\$13,919,841
Other	\$18,128,942
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$40,365,305</b>
Fishing Equipment	\$8,940,760
Auxiliary Equipment	\$31,424,546

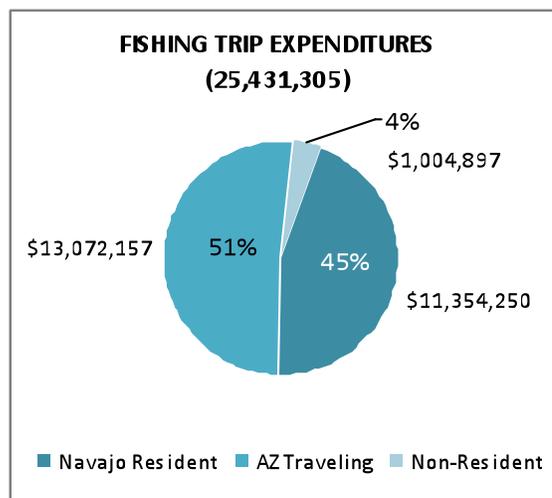
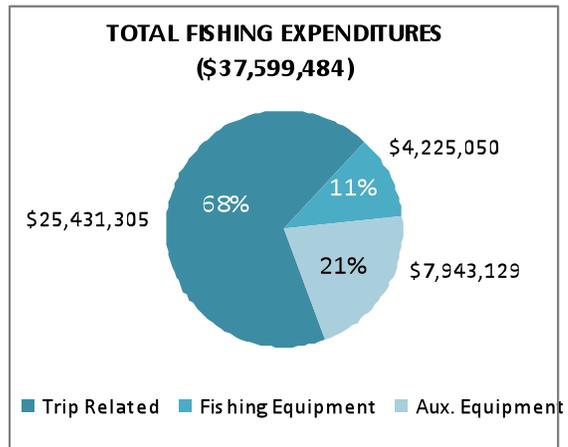
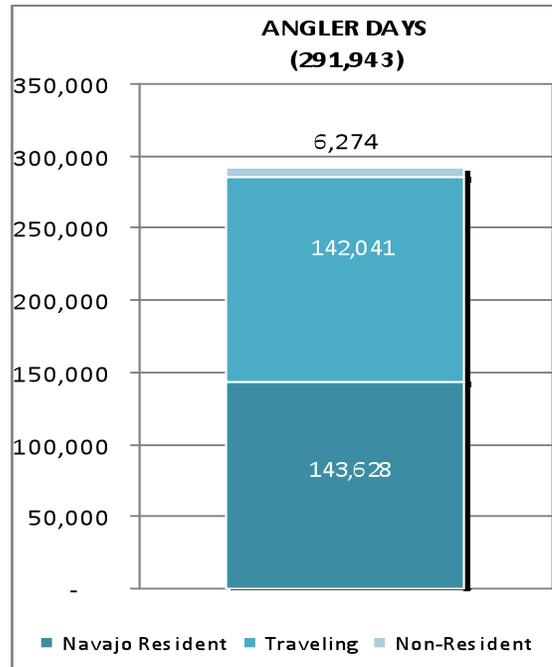


# Navajo County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$37,599,484</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$43,245,052</b>
<b>SALARIES AND WAGES</b>	<b>\$5,645,568</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>613</b>
<b>STATE TAX REVENUES</b>	<b>\$1,467,848</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>291,943</b>
AZ Resident in Own County	143,628
AZ Resident Traveling	142,041
Non-Resident	6,274

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$37,599,484</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$25,431,305</b>
Food, Restaurant	\$9,377,530
Lodging	\$4,593,984
Transportation	\$8,259,464
Other	\$3,200,327
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$12,168,179</b>
Fishing Equipment	\$4,225,050
Auxiliary Equipment	\$7,943,129

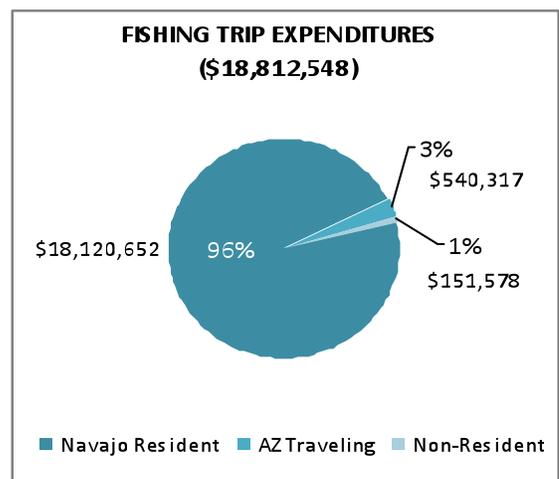
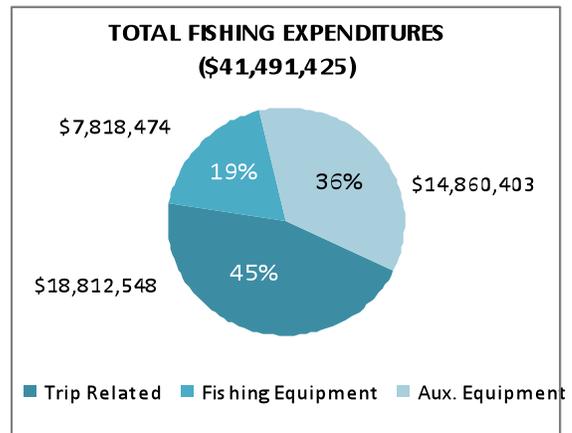
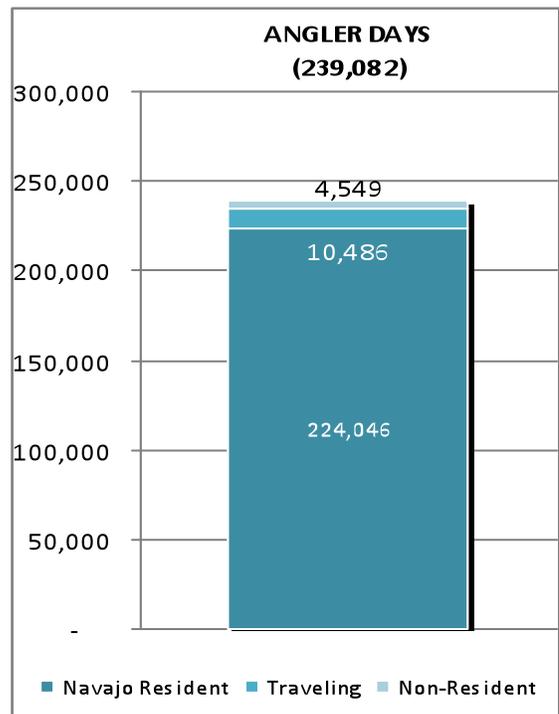


# Pima County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$41,491,425</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$51,557,392</b>
<b>SALARIES AND WAGES</b>	<b>\$8,985,717</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>583</b>
<b>STATE TAX REVENUES</b>	<b>\$2,651,523</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>239,082</b>
AZ Resident in Own County	224,046
AZ Resident Traveling	10,486
Non-Resident	4,549

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$41,491,425</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$18,812,548</b>
Food, Restaurant	\$7,875,329
Lodging	\$1,157,205
Transportation	\$7,375,018
Other	\$2,404,996
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$22,678,877</b>
Fishing Equipment	\$7,818,474
Auxiliary Equipment	\$14,860,403

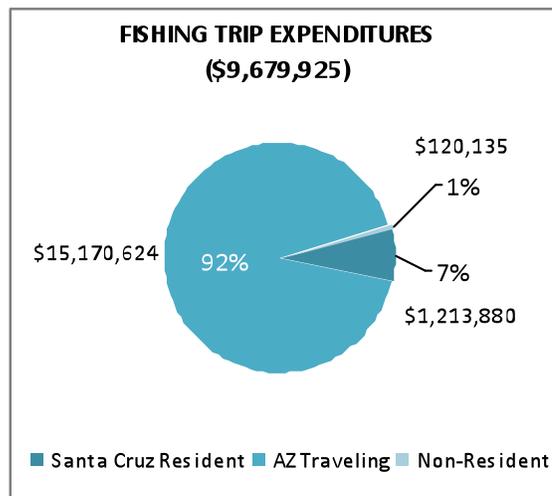
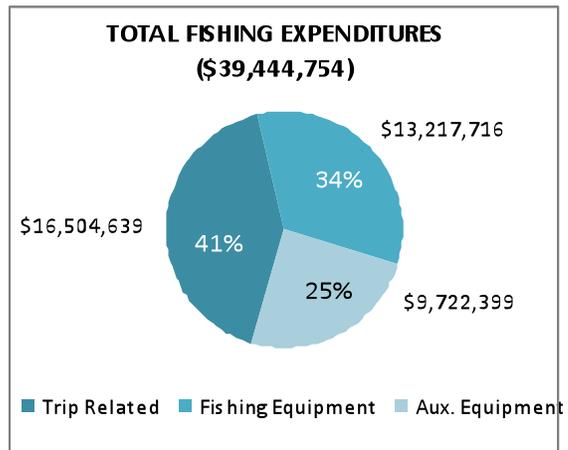
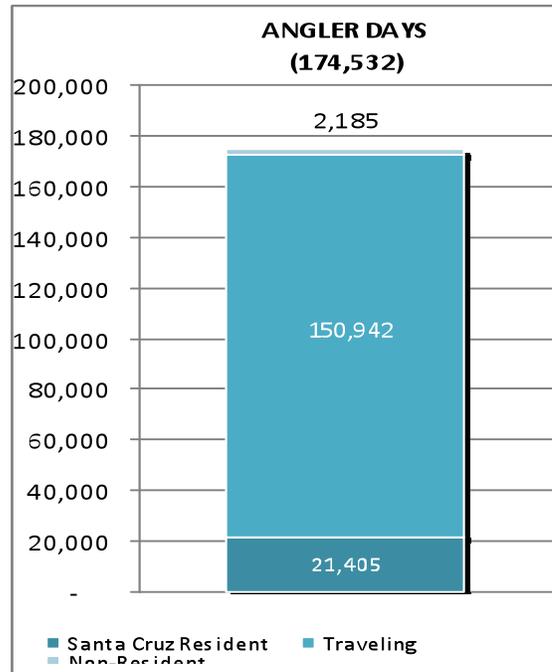


# Santa Cruz County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$39,444,754</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$47,390,460</b>
<b>SALARIES AND WAGES</b>	<b>\$7,661,931</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>616</b>
<b>STATE TAX REVENUES</b>	<b>\$2,610,448</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>174,532</b>
AZ Resident in Own County	21,405
AZ Resident Traveling	150,942
Non-Resident	2,185

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$39,444,754</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$16,504,639</b>
Food, Restaurant	\$3,436,921
Lodging	\$6,207,180
Transportation	\$4,115,647
Other	\$2,744,891
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$22,940,115</b>
Fishing Equipment	\$13,217,716
Auxiliary Equipment	\$9,722,399

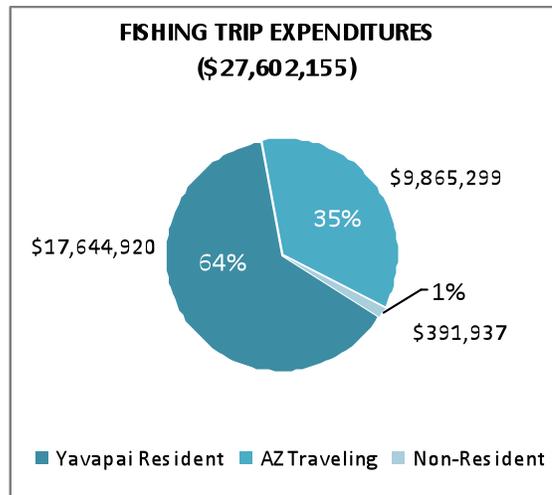
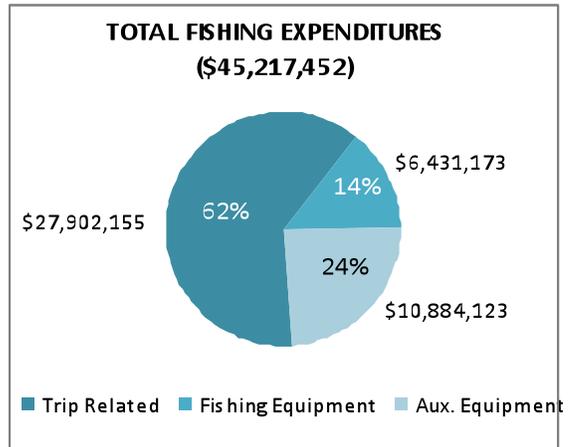
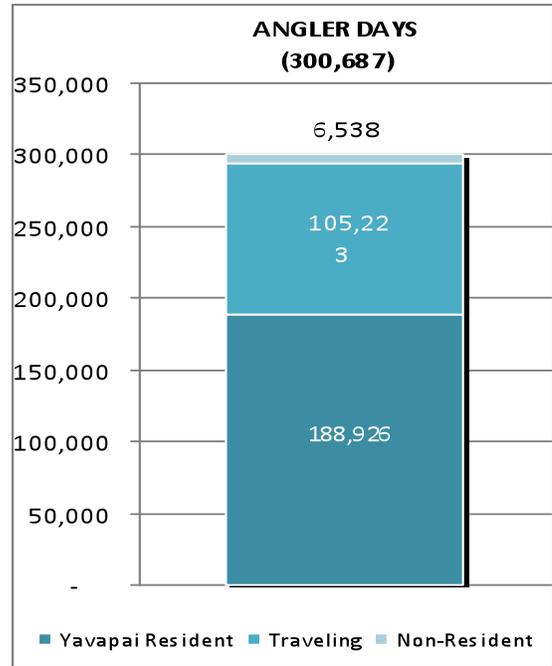


# Yavapai County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$45,217,452</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$56,408,771</b>
<b>SALARIES AND WAGES</b>	<b>\$11,078,276</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>917</b>
<b>STATE TAX REVENUES</b>	<b>\$2,600,003</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>300,687</b>
AZ Resident in Own County	188,926
AZ Resident Traveling	105,223
Non-Resident	6,538

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$45,217,452</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$27,902,155</b>
Food, Restaurant	\$9,264,637
Lodging	\$3,783,788
Transportation	\$11,520,476
Other	\$3,333,253
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$17,315,297</b>
Fishing Equipment	\$6,431,173
Auxiliary Equipment	\$10,884,123

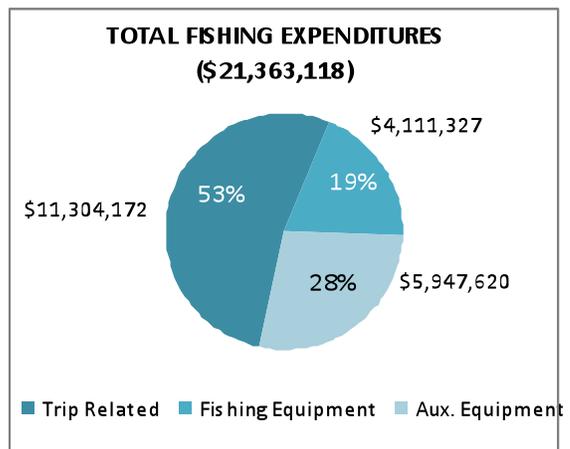
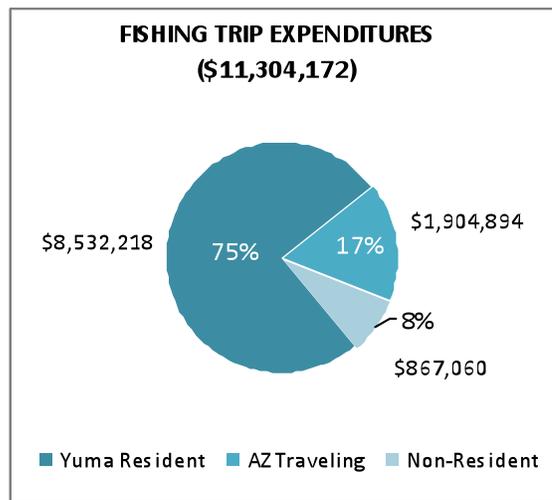
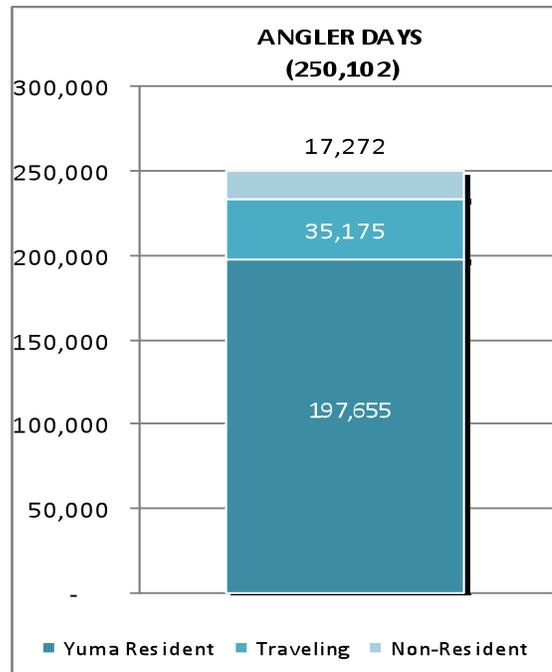


# Yuma County

TOTAL ECONOMIC IMPACTS	
<b>DIRECT EXPENDITURES</b>	<b>\$21,363,118</b>
<b>TOTAL MULTIPLIER EFFECT</b>	<b>\$26,235,408</b>
<b>SALARIES AND WAGES</b>	<b>\$4,872,290</b>
<b>FULL-TIME AND PART-TIME JOBS</b>	<b>430</b>
<b>STATE TAX REVENUES</b>	<b>\$1,124,375</b>

ANGLER DAYS	
<b>TOTAL ANGLER DAYS</b>	<b>250,102</b>
AZ Resident in Own County	197,655
AZ Resident Traveling	35,175
Non-Resident	17,272

DIRECT ECONOMIC IMPACTS	
<b>TOTAL FISHING EXPENDITURES</b>	<b>\$21,363,118</b>
<b>TOTAL TRIP-RELATED</b>	<b>\$11,304,172</b>
Food, Restaurant	\$4,000,857
Lodging	\$1,317,330
Transportation	\$3,701,966
Other	\$2,284,019
<b>TOTAL EQUIPMENT EXPENDITURES</b>	<b>\$10,058,946</b>
Fishing Equipment	\$4,111,327
Auxiliary Equipment	\$5,947,620



## WATERSHED ECONOMIC IMPACTS

**Table 8: Annual Angler User Days by Watershed**

Watershed	Resident Watershed	Traveling	Non-Resident	Total Days
Aqua Fria River	376,923	51,919	9,288	438,131
Bill Williams River	3,063	76,359	8,859	88,281
Colorado River	791,761	353,905	140,763	1,286,428
Gila River	77,989	54,505	11,781	144,276
Little Colorado River	277,098	642,432	15,758	935,288
Salt River	1,101,659	835,078	77,783	2,014,520
Santa Cruz River	284,983	184,050	10,357	479,391
Verde River	417,214	159,898	15,152	592,263
<b>Total</b>	<b>3,330,690</b>	<b>2,358,147</b>	<b>289,741</b>	<b>5,978,578</b>

**Table 9: Angler Expenditures by Watershed**

Watershed	Resident Watershed	Traveling	Non-Resident	Totals
Aqua Fria River	\$79,400,857	\$4,945,688	\$1,104,283	\$85,450,827
Bill Williams River	\$470,713	\$7,860,287	\$1,011,963	\$9,342,963
Colorado River	\$104,441,673	\$33,483,968	\$28,746,225	\$166,671,866
Gila River	\$96,025,103	\$5,258,787	\$1,626,878	\$102,910,768
Little Colorado River	\$41,136,226	\$57,485,024	\$3,385,466	\$102,006,716
Salt River	\$156,192,736	\$61,776,606	\$9,081,268	\$227,050,610
Santa Cruz River	\$54,261,974	\$38,650,982	\$700,333	\$93,613,290
Verde River	\$82,973,110	\$15,497,157	\$1,871,704	\$100,341,971
<b>Totals</b>	<b>\$614,902,391</b>	<b>\$224,958,500</b>	<b>\$47,528,121</b>	<b>\$887,389,011</b>

**Table 10: Economic Impacts of Fishing by Watershed**

Watershed	Direct Expenditures	Multiplier Effects	Salaries & Wages	Jobs	State Tax
Aqua Fria River	\$85,450,827	\$106,647,737	\$20,963,212	1,703	\$4,889,143
Bill Williams River	\$9,342,963	\$10,970,109	\$2,152,031	122	\$431,194
Colorado River	\$166,671,866	\$205,251,734	\$37,113,804	3,280	\$8,579,102
Gila River	\$102,910,768	\$128,197,682	\$24,607,385	1,412	\$5,273,558
Little Colorado River	\$102,006,716	\$120,022,374	\$17,460,706	1,727	\$4,961,310
Salt River	\$227,050,610	\$279,917,984	\$51,779,093	3,389	\$11,435,928
Santa Cruz River	\$93,613,290	\$115,165,796	\$19,640,830	1,358	\$6,023,120
Verde River	\$100,341,971	\$125,462,648	\$24,566,374	1,604	\$5,359,819
<b>Totals</b>	<b>\$887,389,011</b>	<b>\$1,091,636,063</b>	<b>\$198,283,434</b>	<b>14,595</b>	<b>\$46,953,174</b>

**Table 11a: Economic Impacts of Fishing by Watershed and Waterbody**

	<b>Direct Expenditures</b>	<b>Multiplier Effect</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax</b>
<b><i>Aqua Fria River Watershed</i></b>					
Crystal Gardens Water Treatment Facility	\$774,993	\$975,847	\$195,122	10	\$39,972
Lake Pleasant	\$71,087,428	\$88,681,566	\$17,416,420	1,441	\$4,087,527
Fain Lake	\$3,323,961	\$4,185,427	\$836,881	44	\$171,439
Lynx Lake	\$10,264,447	\$12,804,897	\$2,514,789	208	\$590,206
<b><i>Aqua Fria River Total</i></b>	<b><i>\$85,450,827</i></b>	<b><i>\$106,647,737</i></b>	<b><i>\$20,963,212</i></b>	<b><i>1,703</i></b>	<b><i>\$4,889,143</i></b>
<b><i>Bill Williams River Watershed</i></b>					
Alamo Lake	\$9,342,963	\$10,970,109	\$2,152,031	122	\$431,194
<b><i>Bill Williams River Total</i></b>	<b><i>\$9,342,963</i></b>	<b><i>\$10,970,109</i></b>	<b><i>\$2,152,031</i></b>	<b><i>122</i></b>	<b><i>\$431,194</i></b>
<b><i>Colorado River Watershed</i></b>					
Cataract Lake	\$1,741,616	\$2,149,485	\$383,775	32	\$103,258
City Reservoir	\$83,253	\$102,750	\$18,345	2	\$4,936
Colorado River – Ehren./Blythe to Yuma (La Paz County)	\$6,057,206	\$7,112,113	\$1,395,199	79	\$279,550
Colorado River – Ehren./Blythe to Yuma (Yuma County)	\$4,709,974	\$5,784,178	\$1,074,205	95	\$247,893
Colorado River - Lees Ferry	\$13,663,100	\$16,862,857	\$3,010,742	251	\$810,065
Colorado River - Parker Strip Area	\$7,401,662	\$8,690,716	\$1,704,877	96	\$341,599
Colorado River - Topock Area	\$24,616,380	\$30,500,896	\$5,453,190	518	\$1,201,550
Council Park Pond (Somerton)	\$71,043	\$87,246	\$16,203	1	\$3,739
Dogtown Reservoir	\$1,889,986	\$2,332,601	\$416,469	35	\$112,055
Kaibab Lake	\$4,644,596	\$5,732,313	\$1,023,463	85	\$275,371
Lake Havasu	\$43,581,558	\$53,999,678	\$9,654,488	917	\$2,127,260
Lake Mead	\$8,217,772	\$10,182,220	\$1,820,458	173	\$401,118
Lake Mohave	\$19,502,876	\$24,165,016	\$4,320,412	411	\$951,955
Lake Powell	\$16,821,742	\$20,761,222	\$3,706,767	309	\$997,337
Martinez Lake	\$1,078,669	\$1,324,681	\$246,012	22	\$56,772
Mittry Lake	\$6,544,419	\$8,037,006	\$1,492,587	132	\$344,443
Santa Fe Lake	\$298,751	\$368,716	\$65,832	5	\$17,713
Yuma Area Canals	\$3,927,159	\$4,822,827	\$895,668	79	\$206,693
Yuma West Wetlands Pond	\$1,820,102	\$2,235,213	\$415,111	37	\$95,795
<b><i>Colorado River Total</i></b>	<b><i>\$166,671,866</i></b>	<b><i>\$205,251,734</i></b>	<b><i>\$37,113,804</i></b>	<b><i>3,280</i></b>	<b><i>\$8,579,102</i></b>

**Table 11b: Economic Impacts of Fishing by Watershed and Waterbody, continued**

	<b>Direct Expenditures</b>	<b>Multiplier Effect</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax</b>
<b><i>Gila River Watershed</i></b>					
ASU Research Park	\$387,496	\$487,923	\$97,561	5	\$19,986
Cluff Ranch Ponds	\$4,470,985	\$5,351,100	\$844,911	68	\$234,357
Desert Breeze Lake	\$391,540	\$493,015	\$98,579	5	\$20,194
Eagle Creek	\$155,363	\$185,946	\$29,360	2	\$8,144
Fortuna Pond (Moser Pond)	\$2,692,549	\$3,306,639	\$614,090	54	\$141,713
Frye Mesa Reservoir	\$722,538	\$864,770	\$136,543	11	\$37,874
Gila River - Phoenix Area	\$6,831,282	\$8,601,736	\$1,719,927	90	\$352,335
Gila River - Safford Area	\$4,419,285	\$5,289,223	\$835,141	68	\$231,647
Growler Pond	\$108,192	\$132,867	\$24,675	2	\$5,694
Luna Lake	\$1,169,834	\$1,341,211	\$165,789	19	\$63,335
Red Mountain Lake	\$31,176,097	\$39,255,966	\$7,849,274	410	\$1,607,958
Redondo Lake	\$541,202	\$664,634	\$123,432	11	\$28,484
Riggs Flat Lake	\$1,549,850	\$1,854,939	\$292,885	24	\$81,239
Rio Vista Pond	\$1,535,906	\$1,933,965	\$386,698	20	\$79,217
Roper Lake	\$2,401,003	\$2,873,641	\$453,733	37	\$125,854
San Francisco River	\$1,537,206	\$1,660,183	\$172,167	22	\$26,747
San Pedro River	\$292,594	\$350,191	\$55,293	4	\$15,337
Veterans Oasis Lake	\$30,245,607	\$38,084,321	\$7,615,002	398	\$1,559,967
Water Ranch Lake	\$12,282,238	\$15,465,409	\$3,092,326	162	\$633,476
<b><i>Gila River Total</i></b>	<b><i>\$102,910,768</i></b>	<b><i>\$128,197,682</i></b>	<b><i>\$24,607,385</i></b>	<b><i>1,412</i></b>	<b><i>\$5,273,558</i></b>

**Table 11c: Economic Impacts of Fishing by Watershed and Waterbody, continued**

	<b>Direct Expenditures</b>	<b>Multiplier Effect</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax</b>
<b><i>Little Colorado River Watershed</i></b>					
Ashurst Lake	\$198,116	\$244,512	\$43,656	4	\$11,746
Bear Canyon Lake	\$11,873,012	\$14,653,549	\$2,616,286	218	\$703,934
Becker Lake	\$6,878,148	\$7,885,775	\$974,769	111	\$372,384
Black Canyon Lake	\$3,162,809	\$3,637,706	\$474,896	52	\$123,473
C.C. Cragin (Blue Ridge) Reservoir	\$2,908,732	\$3,589,927	\$640,956	53	\$172,454
Carnero Lake	\$4,465,131	\$5,119,259	\$632,797	72	\$241,743
Chevelon Lake	\$1,493,618	\$1,843,408	\$329,127	27	\$88,554
Clear Creek Reservoir	\$6,098,688	\$7,014,406	\$915,719	99	\$238,087
East Clear Creek	\$1,162,359	\$1,434,572	\$256,133	21	\$68,915
Fool Hollow Lake	\$814,141	\$936,384	\$122,243	13	\$31,783
Francis Short Pond	\$1,730,871	\$2,136,223	\$381,407	32	\$102,621
Greer Area Lakes - Bunch, River, Tunnel	\$2,083,942	\$2,389,233	\$295,336	34	\$112,825
Kinnikinick Lake	\$2,407,311	\$2,971,079	\$530,465	44	\$142,726
Knoll Lake	\$8,353,610	\$10,309,939	\$1,840,766	154	\$495,273
Lake Mary (Lower)	\$315,503	\$389,390	\$69,523	6	\$18,706
Lake Mary (Upper)	\$842,315	\$1,039,577	\$185,609	15	\$49,940
Lee Valley Lake	\$3,936,738	\$4,513,458	\$557,914	63	\$213,136
Little Colorado River (Greer)	\$537,593	\$616,349	\$76,188	9	\$29,105
Little Colorado River (Sheep's Crossing)	\$199,242	\$228,430	\$28,237	3	\$10,787
Long Lake	\$792,565	\$978,175	\$174,646	15	\$46,990
Lyman Lake	\$867,713	\$994,830	\$122,972	14	\$46,978
Nelson Reservoir	\$1,596,434	\$1,830,306	\$226,246	26	\$86,431
Rainbow Lake	\$9,777,595	\$11,245,703	\$1,468,107	159	\$381,708
Scotts Reservoir	\$2,780,688	\$3,198,209	\$417,521	45	\$108,555
Show Low Lake	\$11,183,404	\$12,862,593	\$1,679,190	182	\$436,589
Silver Creek	\$657,337	\$756,036	\$98,699	11	\$25,662
Willow Springs Lake	\$172,403	\$212,779	\$37,990	3	\$10,222
Woodland Reservoir	\$13,953,315	\$16,048,407	\$2,095,092	228	\$544,724
Woods Canyon Lake	\$763,383	\$942,160	\$168,216	14	\$45,260
<b><i>Little Colorado River Total</i></b>	<b><i>\$102,006,716</i></b>	<b><i>\$120,022,374</i></b>	<b><i>\$17,460,706</i></b>	<b><i>1,727</i></b>	<b><i>\$4,961,310</i></b>

**Table 11d: Economic Impacts of Fishing by Watershed and Waterbody, continued**

	<b>Direct Expenditures</b>	<b>Multiplier Effect</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax</b>
<i><b>Salt River Watershed</b></i>					
Alvord Lake	\$17,458,864	\$21,983,655	\$4,395,656	230	\$900,469
Apache Lake	\$1,918,266	\$2,415,421	\$482,966	25	\$98,938
Big Lake	\$12,936,537	\$14,831,699	\$1,833,363	208	\$700,386
Black River, East Fork	\$2,429,273	\$2,785,154	\$344,276	39	\$131,521
Black River, West Fork	\$884,725	\$1,014,334	\$125,383	14	\$47,899
Canyon Creek	\$1,426,628	\$1,694,574	\$271,566	28	\$65,176
Canyon Lake	\$27,518,382	\$34,650,286	\$6,928,363	362	\$1,419,305
Chaparral Lake	\$6,204,247	\$7,812,193	\$1,562,057	82	\$319,994
Christopher Creek	\$1,167,011	\$1,386,196	\$222,147	23	\$53,315
Cortez Lake	\$1,660,856	\$2,091,297	\$418,157	22	\$85,661
Crescent Lake	\$2,199,149	\$2,521,317	\$311,663	35	\$119,062
Encanto Lake	\$813,742	\$1,024,639	\$204,878	11	\$41,970
Evelyn Hallman Pond	\$1,162,489	\$1,463,770	\$292,682	15	\$59,957
Haigler Creek	\$1,380,144	\$1,639,358	\$262,718	27	\$63,052
Kiwanis Lake	\$843,267	\$1,061,816	\$212,311	11	\$43,493
Phoenix Area Canals	\$1,556,761	\$1,960,225	\$391,949	20	\$80,293
Roosevelt Lake	\$40,822,795	\$48,490,021	\$7,770,837	797	\$1,865,001
Saguaro Lake	\$59,565,091	\$75,002,499	\$14,996,833	784	\$3,072,167
Salt River (Above Roosevelt)	\$5,140,220	\$6,105,642	\$978,468	100	\$234,832
Salt River (Below Saguaro)	\$20,742,812	\$26,118,699	\$5,222,463	273	\$1,069,844
Steele Indian School Pond	\$409,196	\$515,247	\$103,024	5	\$21,105
Surprise Lake	\$6,219,67	\$7,831,547	\$1,565,927	82	\$320,787
Tempe Town Lake	\$7,892,53	\$9,937,930	\$1,987,100	104	\$407,066
Tonto Creek (Salt River Drainage)	\$4,698,083	\$5,580,464	\$894,305	92	\$214,633
<i><b>Salt River Total</b></i>	<i><b>\$227,050,610</b></i>	<i><b>\$279,917,984</b></i>	<i><b>\$51,779,093</b></i>	<i><b>3,389</b></i>	<i><b>\$11,435,928</b></i>

**Table 11d: Economic Impacts of Fishing by Watershed and Waterbody, continued**

	<b>Direct Expenditures</b>	<b>Multiplier Effect</b>	<b>Salaries &amp; Wages</b>	<b>Jobs</b>	<b>State Tax</b>
<b><i>Santa Cruz River Watershed</i></b>					
Arivaca Lake	\$4,213,850	\$5,236,145	\$912,585	59	\$269,287
Kennedy Lake	\$3,081,365	\$3,828,915	\$667,325	43	\$196,916
Lakeside Lake	\$12,818,67	\$15,928,533	\$2,776,116	180	\$819,182
Parker Canyon Lake	\$1,660,593	\$1,987,482	\$313,813	25	\$87,044
Patagonia Lake	\$3,461,238	\$4,158,465	\$672,327	54	\$229,064
Pena Blanca Lake	\$22,833,946	\$27,433,590	\$4,435,371	356	\$1,511,147
Rose Canyon Lake	\$33,902,457	\$42,127,313	\$7,342,189	476	\$2,166,548
Sahuarita Lake	\$5,338,949	\$6,634,197	\$1,156,246	75	\$341,187
Silverbell Lake	\$6,302,216	\$7,831,156	\$1,364,859	89	\$402,745
<b><i>Santa Cruz River Total</i></b>	<b><i>\$93,613,290</i></b>	<b><i>\$115,165,796</i></b>	<b><i>\$19,640,830</i></b>	<b><i>1,358</i></b>	<b><i>\$6,023,120</i></b>
<b><i>Verde River Watershed</i></b>					
Bartlett Lake	\$57,606,044	\$72,535,728	\$14,503,600	758	\$2,971,126
Dead Horse Lake	\$9,846,032	\$12,282,924	\$2,412,278	200	\$566,147
East Verde River	\$2,783,332	\$3,306,090	\$529,822	54	\$127,157
Goldwater Lake	\$5,049,547	\$6,299,310	\$1,237,139	102	\$290,349
Granite Basin Lake	\$1,304,063	\$1,626,819	\$319,495	26	\$74,984
Green Valley Lake	\$3,033,533	\$3,603,283	\$577,449	59	\$138,588
JD Dam	\$101,814	\$125,658	\$22,435	2	\$6,036
Mingus Lake	\$612,865	\$764,549	\$150,152	12	\$35,240
Oak Creek (Coconino)	\$2,435,291	\$3,005,611	\$536,630	45	\$144,385
Oak Creek (Yavapai)	\$2,672,589	\$3,334,055	\$654,784	54	\$153,674
Perkins Tank	\$137,247	\$169,389	\$30,243	3	\$8,137
Verde River (Bartlett Dam to Fort McDowell Indian Reservation)	\$1,179,158	\$1,484,759	\$296,879	16	\$60,817
Verde River (Sullivan Lk to Perkinsville)	\$2,322,621	\$2,897,470	\$569,042	47	\$133,551
Verde River (Sycamore Ck to Childs)	\$6,658,204	\$8,306,110	\$1,631,260	135	\$382,847
Watson Lake	\$3,082,937	\$3,845,964	\$755,320	63	\$177,269
Wet Beaver Creek	\$228,583	\$285,157	\$56,003	5	\$13,144
Whitehorse Lake	\$1,288,109	\$1,589,771	\$283,842	24	\$76,370
<b><i>Verde River Total</i></b>	<b><i>\$100,341,971</i></b>	<b><i>\$125,462,648</i></b>	<b><i>\$24,566,374</i></b>	<b><i>1,604</i></b>	<b><i>\$5,359,819</i></b>
<b>Total All Watersheds</b>	<b>\$887,389,011</b>	<b>\$1,091,636,063</b>	<b>\$198,283,434</b>	<b>14,595</b>	<b>\$46,953,174</b>