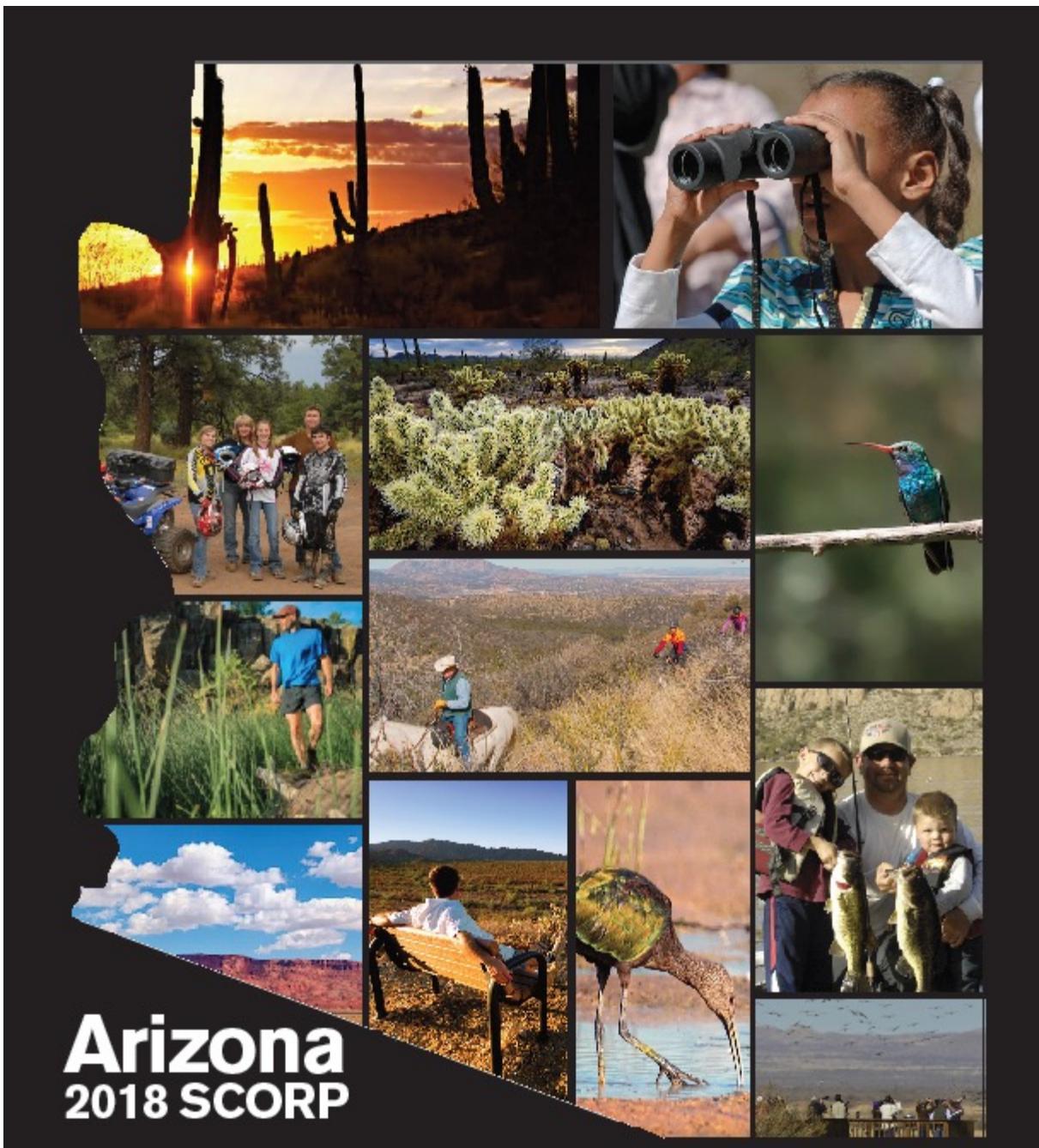


DRAFT



Arizona
2018 SCORP

Statewide Comprehensive Outdoor Recreation Plan

ARIZONA
STATE PARKS & TRAILS

Inside Cover Photo

Arizona
2018-2022
Statewide Comprehensive
Outdoor Recreation Plan



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SCORP EXECUTIVE SUMMARY

AN OVERVIEW OF ARIZONA'S 2018 STATEWIDE COMPREHENSIVE OUTDOOR RECREATION PLAN

This update of Arizona's Statewide Comprehensive Outdoor Recreation Plan (SCORP) is in accordance with the provisions of the Land and Water Conservation Fund (LWCF) Act, enacted in 1964 to encourage the provision of greater recreation opportunities for American citizens. Arizona receives annual congressional appropriations from LWCF, administered through the Arizona State Parks and Trails Board to fund state and local government sponsored outdoor recreation projects.

The 2018 SCORP is Arizona's Outdoor Recreation Policy Plan

SCORP's key objectives are:

- Establish outdoor recreation priorities for Arizona that will help outdoor recreation and natural resource managers at all levels of government, the state legislature, and the executive branch make decisions about the state's outdoor recreation sites, programs and infrastructure.
- Set evaluation criteria to allocate the federal Land and Water Conservation Fund (LWCF) grants, along with other applicable grant programs consistent with the state's outdoor recreation priorities identified in this plan.
- Protect, conserve, and manage Arizona's public lands, recreation spaces, and unique places for current and future generation to enjoy.
- Encourage a highly integrated and connected outdoor recreation system throughout Arizona that balances recreation and protection of natural and cultural resources.
- Ensure that Arizona's diverse and growing population has access to outdoor recreation spaces and opportunities to enjoy a range of recreation activities.
- Strengthen the awareness of linkages between outdoor recreation, individual wellness benefits, community health, and a thriving economy.
- Elevate public participation and engagement in outdoor recreation issues to ensure that the resources and opportunities provided to the public are sustained.

ARIZONA’S PRIORITY OUTDOOR RECREATION ISSUES

Each state’s plan must identify outdoor recreation issues of statewide importance based upon, but not limited to, input from public participation. The priority issues were identified through the SCORP planning process, online questionnaires of recreation providers, a focus group of millennial participants, and public input obtained via social media and web survey. The 2018 SCORP Working Group, State Parks staff, and Arizona State University researchers analyzed the data and information to identify the priority issues. The priority issues and example projects are described further in Chapter 5. The issues of primary importance from each method of data collection were analyzed and grouped into four pillars of recreation:

- Conservation
- Social Equity
- Individual and Community Wellness
- Optimizing System Vitality

The first three pillars are adapted from the National Recreation and Parks Association (NRPA) and the fourth pillar is added as seeking innovative means of optimizing long term sustainability and vitality to adapt to changing economic times is imperative. The four pillars are discussed in more detail within Chapters 4 and priority issues are further detailed in Chapter 5.

PRIORITY ISSUES

Engagement

Outdoor recreation providers’ survey indicated that there are limited engagement opportunities for youth beyond volunteerism and education. Organizations and agencies need to seek innovative means of engagement for members of their communities, particularly youth in planning processes, recreation development, and experiential learning opportunities to foster a sense of ownership and stewardship for the recreation resources. Projects funded under this category would seek to engage youth and underserved groups to foster a sense of ownership and community led initiatives in addition to the opportunities which they already provide.

Types of project that could be funded under this category:

- Projects that are innovative and effectively engage youth and underserved groups
- Projects that involve education/training for youth as it relates to outdoor recreation facilities
- Projects that provide recreational opportunities for youth

Preservation and Conservation

Protection, conservation, and long term stewardship of Arizona’s natural and cultural resources, public lands, recreation areas, and scenic landscapes to ensure that current and future generations of Arizonans have access to outdoor recreation areas is a top priority for the 2018 SCORP. Human activities, including population growth and urbanization increase the demand for recreation areas and place more pressure on resources. Additionally, naturally occurring events exacerbated by human activities, such as

wildfire, flooding, erosion, and the spread of invasive species, increase the need for long term stewardship of resources. Projects funded under this category would conserve Arizona’s natural and cultural resources, open space, and recreation opportunities, utilize sustainable and renewable technologies in new development and facility improvements, and foster long-term stewardship.

Types of projects that could be funded under this category may include:

- Acquiring property to preserve natural and cultural resources, open space, wetlands, and recreational opportunities in critical habitat, high growth areas and conservation priority areas
- Mitigation projects on public lands effected by natural disasters, degradation due to overuse, or vandalism
- Upgrading current recreational facilities using resource conservation technology (i.e. alternative energy, water saving techniques, recycling, etc.)
- Developing or renovating facilities and trails to make them more sustainable
- Funding studies to determine carrying capacity of current recreational facilities

Marketing, Communication and Education Opportunities

Today’s youth are spending less and less time outdoors in part due to technology and dependence on electronics. Although this lack of early exposure to nature can lead to reduced environmental ethics and outdoor recreation experience, technology is here to stay and opportunities to engage youth in outdoor activities need to integrate these two areas in order to grow the next generation of outdoor recreation enthusiasts. Outdoor recreation providers need to assess their marketing, education, and communication efforts to ensure that their messaging is reaching the intended audiences. Projects funded under this category would seek collaborations in marketing, outreach, and education opportunities for youth and underserved populations, utilize relevant technologies to engage users and promote outdoor recreation, and provide information which enhances the user experience.

Types of project that could be funded under this category:

- Shared marketing, outreach, and/or education campaigns and projects which reach out to underrepresented populations.
Developing, promoting, and consolidating mobile applications and other technologies which promote outdoor recreation and increase user accessibility.
- Projects which consolidate recreational opportunity information related to trails whether it be via social media, print or other forms of distributing this information that aim to increase the user experience.
- Funding outreach and educational projects/events that teach the importance of conservation, preservation, and sustainability such as Leave No Trace.

Accessibility and Inclusion

Arizona's growing population is changing, becoming older and ethnically and culturally diversifying. These demographic trends may require changes in how outdoor recreation opportunities are provided and what facilities are necessary to meet the needs of changing populations. Further research needs to be completed to better understand the needs, barriers, and preferences of Arizona's population as it pertains to outdoor recreation. Public input of current users as well as potential users will help identify these needs for future planning efforts, resource allocation, and project development. Projects funded under this category would seek to understand the needs and barriers of the communities which they serve as well as increase accessibility to recreation facilities for all members of the communities particular emphasis on youth and underserved groups.

Types of project that could be funded under this category:

- Projects that increase accessibility to recreational facilities in underserved communities.
- Projects that provide signage/printed material in multiple language or format related to recreational facilities
- Projects and/or studies that seek to understand the needs, barriers, and preferences of the community which they serve.
- Projects that upgrade existing recreational facilities to accessible standards

Funding

Securing sustainable funding for the long term stewardship of our state's recreation areas is an ongoing issue. In an age of user-generated funding, budget cuts and short-term grant funding cycles, organizations and agencies are routinely required to seek out creative ways to do more with less, and use existing resources efficiently. Seeking innovative collaborations, private/public partnerships, and grant opportunities is required to keep up with ongoing maintenance of facilities and existing infrastructure. In addition, the State of Arizona is focusing on enhancing agency efficiency through problem identification and data analysis, the implementation of solutions, and consistent monitoring to identify if solutions are effective. Grant applicants should provide match to their projects and demonstrate long term financial sustainability of the project through partnerships, collaborations, and stewardship plans.

Types of project that could be funded under this category:

- Projects which work in conjunction with local communities to stimulate economic benefits of outdoor recreation opportunities provided.
- Projects which are funded through multiple stakeholder contribution to match, provide overmatch, and/or in-kind match.
- Projects which demonstrate a maintenance plan and budget for the duration of the project term of use.

Collaboration and Partnerships

Arizona's recreation lands are managed by a patchwork of federal and state agencies, tribes, non-profit organizations, communities, and private land owners, which often creates confusion amongst users, missed opportunities, and inefficient use of resources. Increased collaboration and partnerships between agencies, communities, volunteers, and other collaborators for marketing, resource management, safety, and maintenance can increase efficiency, effectiveness, and provide a better service to the user. Projects seeking funding under this category should foster connectivity and demonstrate sharing of information, data, and best practices between land management agencies/ recreation agencies, universities, communities and volunteers.

Types of project that could be funded under this category:

- Projects that involve collaboration and/or sharing of information, data, best practices among 2 or more land management agencies/ recreation agencies, universities, communities and volunteers
- Projects that involve collaboration between stakeholder groups throughout the duration of the project including planning, development, and long-term operation and maintenance.
- Projects that facilitate connectivity to recreational opportunities either physically, economically, or through collaboration in research, marketing, outreach, education, and communication efforts.

PRIORITY THEMES

In addition to Arizona's four pillars of outdoor recreation, three additional important themes emerged from the data which should be considered. These included the use of technology in providing outdoor recreation, today's youth, and connectivity of the social and ecological systems embedded within all of the outdoor recreation issues identified for the 2018 SCORP. More on these themes can be found in Chapter 3.

Chapter 1 INTRODUCTION

This 2018 update of Arizona's Statewide Comprehensive Outdoor Recreation plan (SCORP) is intended to guide outdoor recreation managers and decision-makers on policy and funding issues. While local, state and federal agencies have their own detailed management plans that are used to guide the development and operation of outdoor recreation facilities and management of land and water resources, the SCORP is a mechanism by which the state's recreational resources and management issues can be viewed collectively. It provides decision-makers and outdoor recreation managers with a thoughtful analysis of the most significant outdoor recreation issues facing Arizona today and suggests strategies to address these issues during the next five years.

1.1 LAND AND WATER CONSERVATION FUND

1.1.1 Background and Legal Authority

Passed by Congress in 1964, the Land and Water Conservation Fund (LWCF) Act (P.L. 85-578) was created to provide funds for the acquisition and development of public lands to meet the needs of all Americans for outdoor recreation and open space. Since its inception, the Fund has successfully conserved nearly 3 million acres of public lands nationwide, including Grand Canyon National Park and created more than 41,000 state and local park recreation facilities. Using revenues from offshore oil and gas receipts, funds are allocated through a federal program and a stateside matching grant program.

- The federal program funds the purchase of federal agency land and water areas for conservation and recreation purposes. Congress appropriates these funds directly to federal agencies on an annual basis.
- The stateside matching grants program assists state and local governments in acquiring, renovating, developing, and expanding high quality outdoor recreation areas and facilities.

1.2 LAND AND WATER CONSERVATION FUND IN ARIZONA

From building hiking and biking trails, to improving community parks, playgrounds and ball fields, the LWCF State Side is a 50:50 matching program that is the primary federal investment tool to ensure that citizens have easy access to public, open spaces in perpetuity. From 1965- 2014, the State Side fund has made significant contributions to improving outdoor recreation nationwide.

- \$4.1 billion, matched for a total of \$8.2 billion
- Over 40,000 grants approved to state and local governments nationwide

- 10,600 grants supporting the purchase and/or protection of 3 million acres of recreation lands
- 26,420 grants for development of recreation facilities
- 2,760 grants for redevelopment of older recreation facilities including improved access for people with disabilities
- 641 state planning grants

Arizona’s stateside LWCF share is based on a formula comprised of land area and population factors. As Arizona’s population has increased over the years so has the need for outdoor recreation resources. As Figure 1 shows, LWCF apportionments have varied drastically over the years. For example, in 1979, Arizona received nearly \$5 million dollars making it the largest LWCF apportionment since the beginning of the program whereas 20 years later in 1999, Arizona received no stateside LWCF allocations.

Since the beginning of the LWCF in Arizona, more than 755 LWCF grants were awarded totaling \$63,258,937, with a leveraged amount of \$125,358,937, making a significant contribution to investments in Arizona’s outdoors.

Figure 1. LWCF Annual Apportionments to Arizona 1965-2016

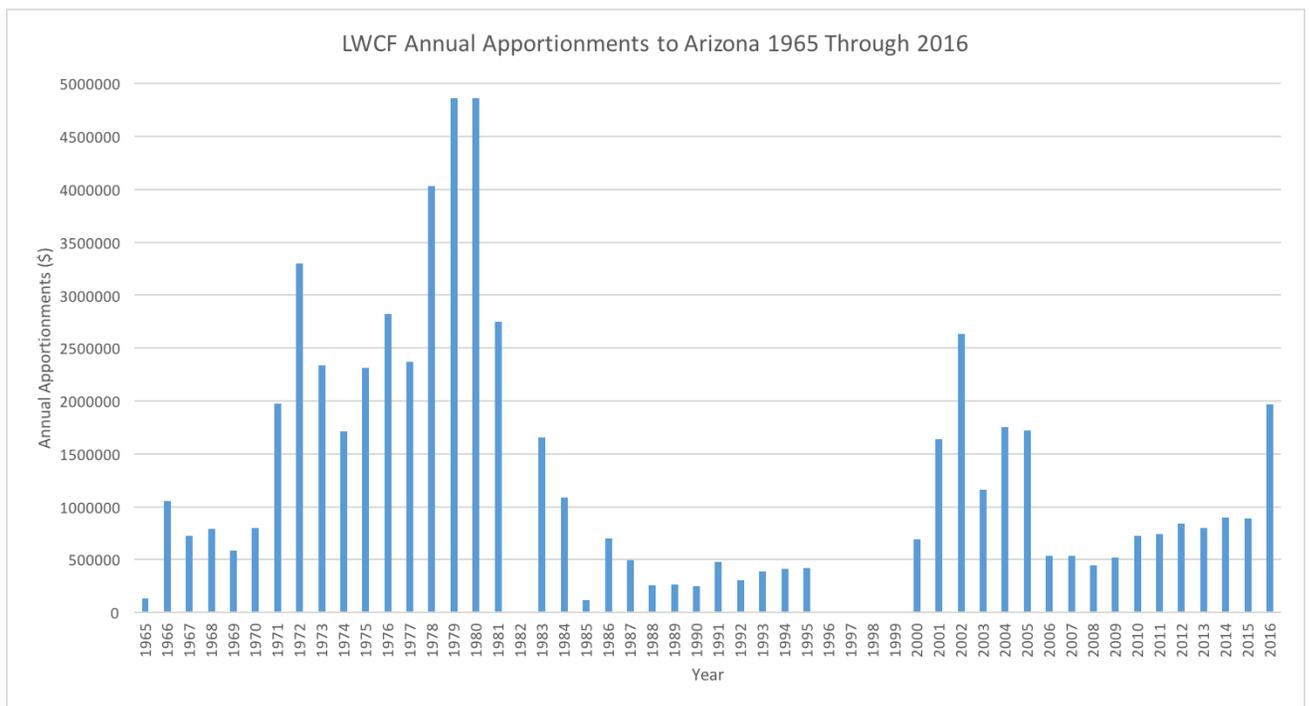
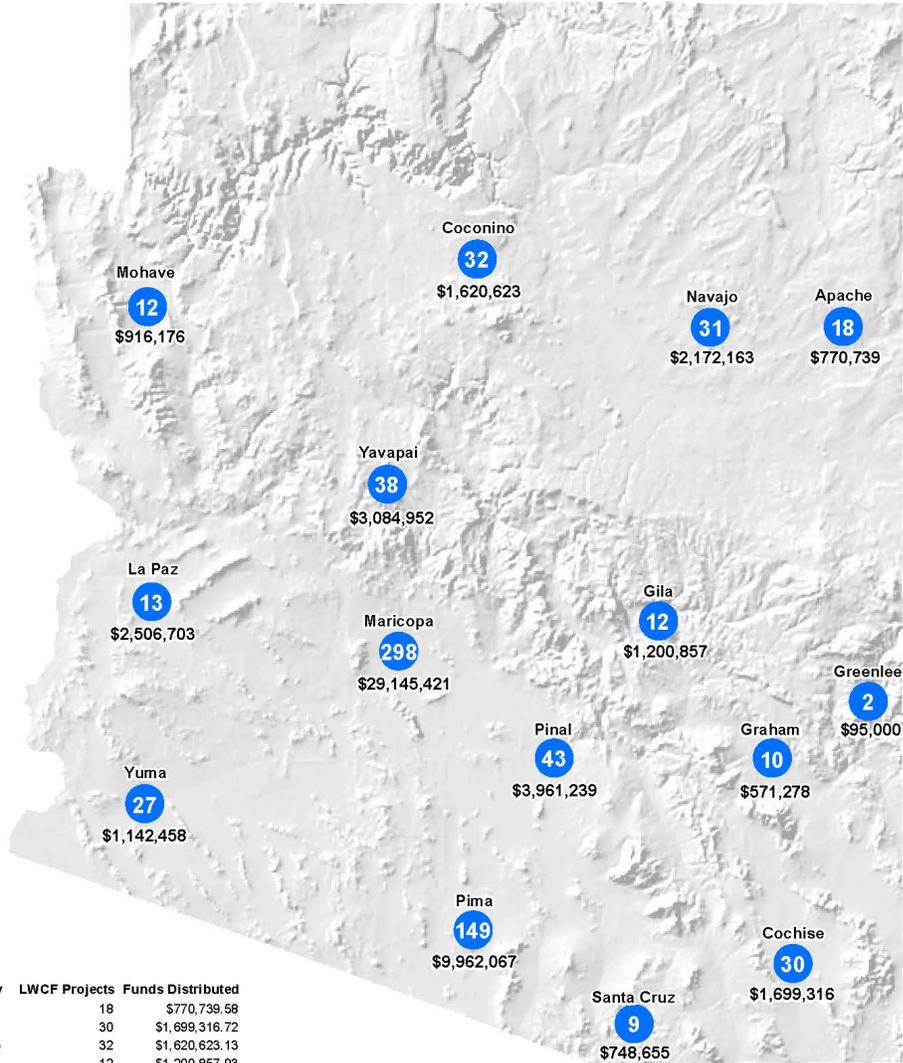


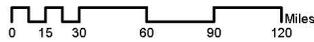
Figure 2. LWCF Project and Funding Per County



LWCF Projects and Funding Per County



County	LWCF Projects	Funds Distributed
Apache	18	\$770,739.58
Cochise	30	\$1,699,316.72
Coconino	32	\$1,620,623.13
Gila	12	\$1,200,857.93
Graham	10	\$571,278.73
Greenlee	2	\$95,000.00
La Paz	13	\$2,506,703.28
Maricopa	298	\$29,145,421.21
Mohave	12	\$916,176.38
Navajo	31	\$2,172,163.48
Pima	149	\$9,962,067.01
Pinal	43	\$3,961,239.12
Santa Cruz	9	\$748,655.70
Yavapai	38	\$3,084,952.28
Yuma	27	\$1,142,458.65



LWCF Project County Count

County Boundary



Oct 2016

Arizona State Parks GIS Team

1.3 STATEWIDE COMPREHENSIVE OUTDOOR RECREATION PLAN

The LWCF Act of 1965 stipulates that each state is required to complete an approved outdoor recreation plan or “SCORP” every five years to be eligible for LWCF stateside allocations. Each state’s SCORP guides how stateside LWCF apportionments are granted to eligible recipients for new acquisitions and development projects pertaining to outdoor recreation. The SCORP must address statewide outdoor recreation issues including recreation supply and demand, a sufficiently detailed strategy for obligation of LWCF monies (Open Project Selection Process), identify wetlands that need priority protection, and provide ample opportunity for public involvement.

The SCORP is not a site-specific plan nor is it intended to address every outdoor recreation issue in Arizona. Rather it is meant as an information resource to assist in decision-making for recreation providers across the state. The SCORP identifies existing resources and systems, general outdoor recreation and related tourism participation trends, issues and problems, and provides recommendations for strategic solutions to those problems. Local and regional planning, research and cooperation are strongly encouraged to complement the information contained in the SCORP in order to satisfy the outdoor recreation needs in Arizona.

Purpose of SCORP

Federal Guidelines outline two general purposes of the SCORP:

- Guide the use of LWCF funds for local government and state recreation agencies by identifying public and agency preferences and priorities for outdoor recreation activities and facilities.
- Identify outdoor recreation issues of statewide importance and those issues that will be addressed through LWCF funding.

Using the SCORP to tie outdoor recreation projects to state outdoor recreation priorities may aid an organization in applying for and receiving alternative funding from outside sources. Projects that directly address the SCORP’s Open Project Selection Process priorities are more likely to receive LWCF funding in the State of Arizona.

Chapter 2 ARIZONA AT A GLANCE

2.1 CHANGING DEMOGRAPHICS

By 2030, Arizona is projected to be the Nation’s tenth largest state in population with 10.7 million residents. With this growth, the makeup of Arizona’s population is also predicted to change substantially over the next few decades, becoming older, younger, and more diverse which may influence the demand for different types of outdoor recreation (Center for the Future of Arizona, 2015). Demographic trends can be drivers of recreation choices where one’s race, ethnicity, gender, income, and education level as well as proximity to the outdoors is highly indicative of recreation choices, participation level, and consumption (Cordell, 2012). Providers were asked if the demographics of their users had changed within the last five years with 41% responding “Yes” (Figure 3).

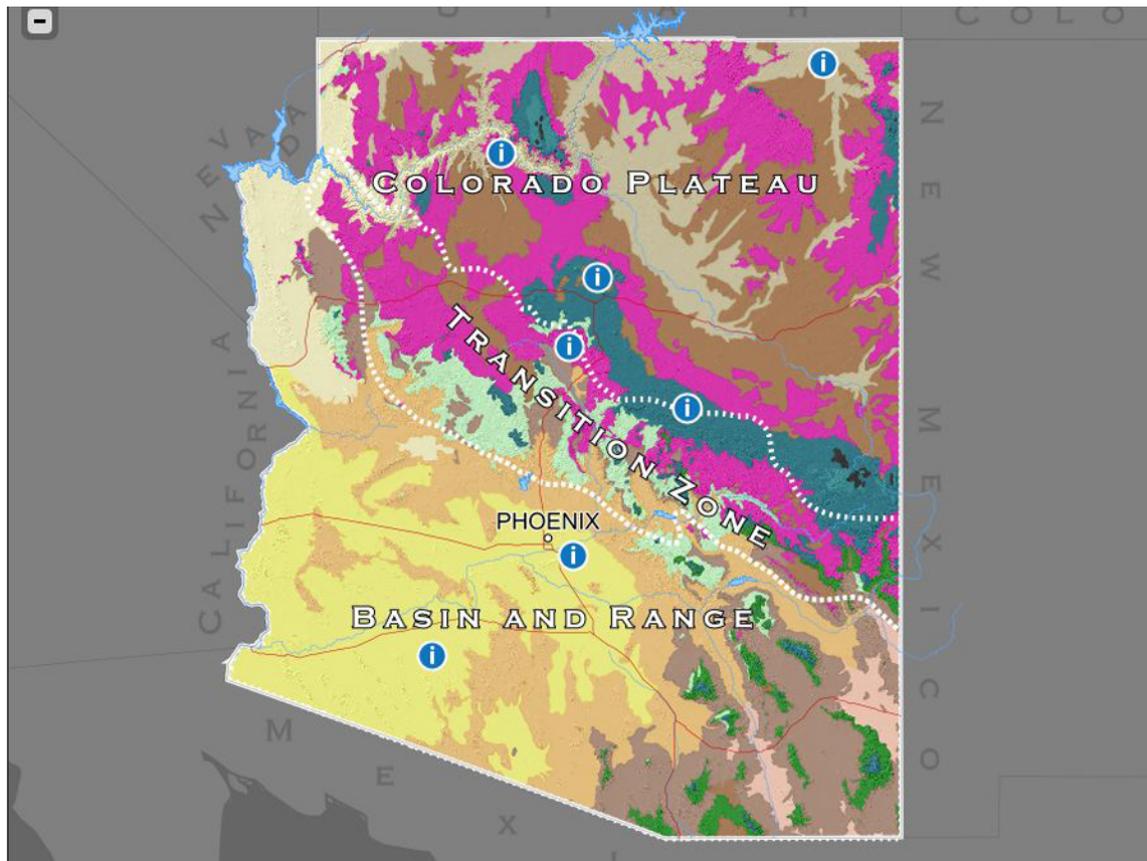
Figure 3. Demographic Changes



2.2 PHYSICAL SETTING

Located in the American Southwest, Arizona is a land of extremes. Temperatures fluctuate wildly from night to day as well as seasonally. Monsoon clouds unleash furious torrents of precipitation and the ground can go from cracked and parched to flooded in a matter of minutes. There is incredible diversity to be discovered from the state’s high plateaus, rugged mountains, vast grasslands, and lush riparian valleys. In fact, nearly all the world’s biomes from tundra on the San Francisco Peaks to deciduous temperate forests can be found within the Grand Canyon State, with the sole exception of tropical rainforests. Overall, Arizona is one of the driest and sunniest states in the country and is the only state where all four North American deserts types are found (The Arizona Experience, 2016).

Figure 4. Map of Arizona's Biomes



Source: <http://arizonaexperience.org/land/az-habitats>

Like many other western states, a significant portion of the landscape is public land. These public lands include national, state, and regional parks, forests, wildlife refuges, monuments, wilderness areas, cultural and historic sites in both urban and rural settings. Arizona's public lands support an array of activities including tourism and outdoor recreation while also providing ecosystem services such as clean air and water. The unique patchwork of diverse landscapes, parks and protected areas, and public lands not only provide picturesque scenery but also directly contribute to Arizona's economy.

Studies consistently demonstrate the important role parks and protected areas play in improving community and individual health and well-being through access to the outdoors and recreation opportunities. Many factors influence the outdoor recreation opportunities in a particular area including climate, landscape, accessibility, and population demographics.

Outdoor recreation areas are a key component of healthy communities and have profound economic, environmental, and individual health benefits. Arizonans recognize the uniqueness of public spaces and the incredible value of outdoor recreation opportunities which are found throughout the Grand Canyon State. With over two thirds of the

population originating from elsewhere, the motto of the state could be “I chose to live here” (Center for the Future of Arizona, 2015). Protection of the unique natural features of the state are a priority for residents, who identified the protection of the state’s natural environment, water supplies, and open spaces as top priorities in the 2009 Gallop Arizona Poll (Center for the Future of Arizona, 2015).

However, it is not only residents that directly benefit from Arizona’s public spaces but visitors from all over the world come to the state for its unique landscapes and outdoor experiences. Arizona is a major destination site for over 42 million domestic and international visitors each year (AOT, 2016). According to the Arizona Office of Tourism (AOT), one in five visitors to Arizona make a point of visiting a state or national park, and 17% go hiking or backpacking while they are here. After shopping and fine dining, outdoor recreation activities are the top experiences desired by Arizona visitors.

2.3 TOURISM AND OUTDOOR RECREATION

Economic Impact of Arizona’s Tourism Industry, 2015

- 42.1 Million Overnight Visitors
- \$21 Billion in Direct Spending
- 179,600 Industry Jobs
- \$6.2 Billion in Employment Earnings
- \$2.9 Billion in Federal, State, and Local Tax Revenue

As one of Arizona's strongest economic drivers, the travel and tourism industry is integral to the state's vitality. No other Arizona industry produces the same type of economic benefits that positively impacts all 15 counties. Ranked the #1 export-oriented industry in Arizona in 2015, travel and tourism activity creates an economic cycle of increased visitation, greater travel spending, faster job creation, potential commerce opportunities and higher tax revenues, all of which contribute to the growth and development of the state.

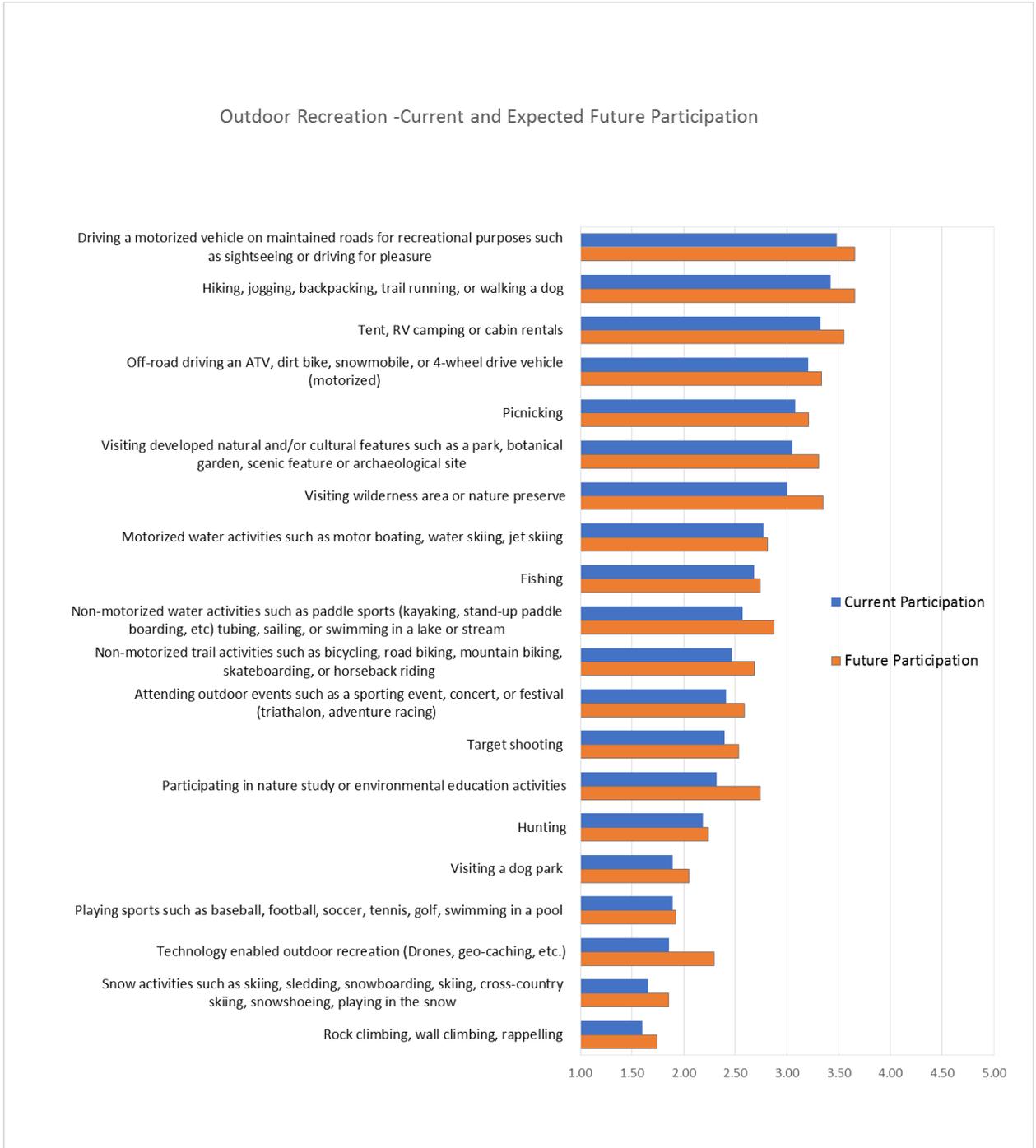
2.3.1 Outdoor Recreation: A Cornerstone of the Tourism Industry in Arizona

This love for the Arizona outdoors and its tourism offerings translates into vital economic benefit for the state and its residents. Visitors inject \$57.5 million *per day* into the state’s economy. This impact is felt more acutely in rural areas where tourism makes up a larger share of economic activity, and outdoor recreation is a key draw for these rural areas. Direct travel spending makes up more than 15% of state transaction privilege taxes in rural areas compared to about 8% in urban cores.

In order to better understand what residents and visitors do when they recreate outdoors, outdoor recreation providers were asked to complete a survey. Providers were asked to

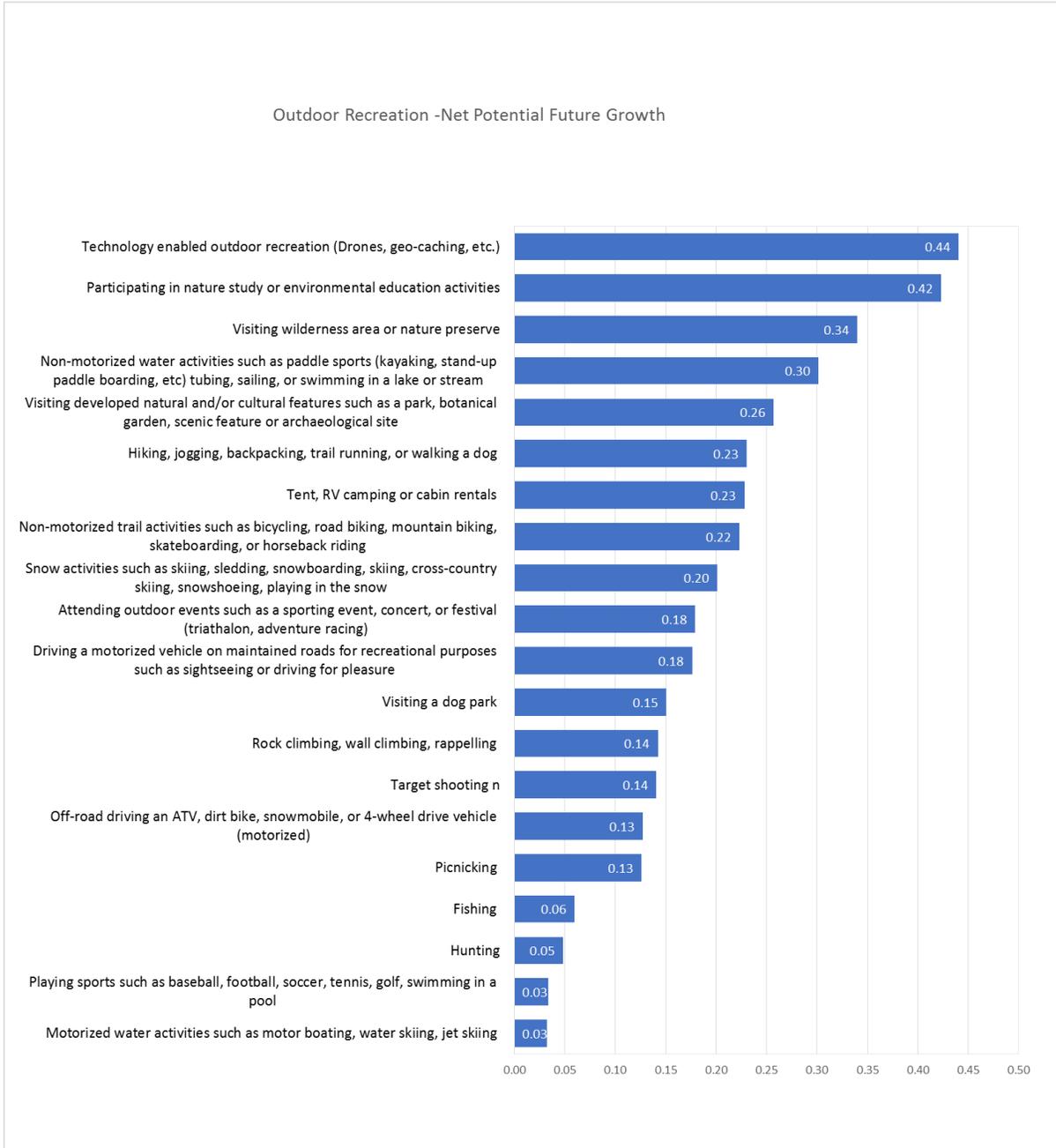
indicate the outdoor recreation activities that users currently participated in at the sites which they managed and were then asked to indicate the expected future participation.

Figure 5. Current and Expected Future Participation in Outdoor Recreation



1=No current use to 5=High use & for expected future participation, 1=No participation to 5=High participation.

Figure 6. Net Potential Future Growth



The top 5 outdoor recreation activities with the most net potential future growth for the state of Arizona as indicated by the providers surveyed were participation in 1) technology enabled outdoor recreation, 2) nature study or environmental education activities, 3) visiting wilderness areas or nature preserves, 4) non-motorized activities such as paddle sports (kayaking, stand-up paddleboarding (SUP), etc.), tubing, sailing, or swimming in a lake or stream, and 5) visiting developed natural and/or cultural features such as a park, botanical garden, scenic feature or archaeological site. The net potential growth was calculated by subtracting the current participation from the expected future

participation (Figure 6), which were measured on a 5 pt scale (1=no participation to 5=high participation). These findings were somewhat consistent with the Outdoor Foundation’s 2015 top growing trends which included paddle sports, kayaking activities (including river, sea, and fishing), traditional and non-traditional triathlon, adventure racing, and trail-running (Outdoor Foundation, 2016). Nationwide, SUP was the most rapidly growing activity in the outdoor industry with participation increasing 26% between 2012 and 2015 (Outdoor Foundation, 2016).

2.3.2 Promoting Outdoor Recreation in Arizona

The Arizona Office of Tourism (AOT) markets Arizona as a world-class leisure travel destination to domestic and international visitors. Outdoor recreation has always held a primary role in AOT’s campaign imagery and messaging.

AOT’s campaigns target specific audiences including international visitors and out-of-state domestic visitors. The Summer Campaign encourages Arizona residents and those in nearby drive markets, particularly in urban areas, to explore the rest of the state. In FY17, AOT partnered directly with Arizona State Parks and Trails to produce a summer campaign highlighting the parks to Arizona residents.

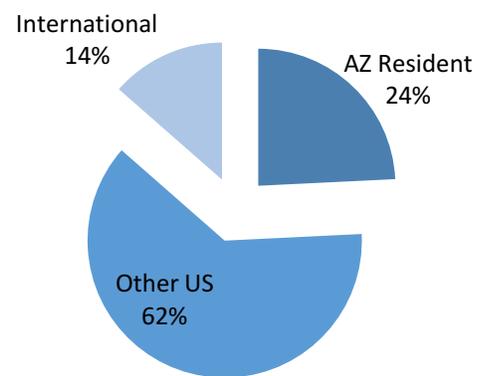


Table 1. AOT Visitor Profiles

Resident	
Nights Stayed in Arizona	2.4
Party Size	2.9
Per Party Expenditures	\$360
Average Household Income	\$57,780
Average Age	45 years

Non-Resident US	
Nights Stayed in Arizona	4.7
Party Size	2.8
Per Party Expenditures	\$817
Average Household Income	\$73,300
Average Age	45 years

Overseas (Not including Mexican and Canadian Visitors)	
Nights Stayed in Arizona	7.9
Party Size	1.9
Per Party Expenditures in US	\$4,262
Average Household Income	\$85,578
Average Age	42 years

2.3.3 Programs Promoting Outdoor Recreation

The following is a list of programs which heavily draw upon and promote Arizona’s natural wonders and outdoor recreation opportunities:

- Official State Visitor Guide – published annually, this magazine features detailed travel information and high-quality photography.
- Official State Visitor Map
- VisitArizona.com – AOT’s official consumer travel website. The site includes content and articles specifically designated as “Outdoor Adventure.” Additionally, more than 250 businesses listed on the site are directly related to outdoor recreation.
- Arizona’s Recreation and Cultural Sites Map – Information found on the map details where travelers can boat, fish, raft, canoe, swim, camp, hike, or view wildlife.
- Co-Op Marketing Program – open to rural destination marketing organizations as well as Arizona State Parks and Trails, this funds-matching program assists destinations in promoting their travel offerings.
- IMAX/Expedia Campaign promoting the National Parks Centennial (2016)



2.4 WILDLIFE-RELATED RECREATION IN ARIZONA

Updated by Joe Yarchin, Watchable Wildlife Project Coordinator, Arizona Game and Fish Department

Key sources of information for this section include: *The 2011 U.S. Fish and Wildlife Service National Survey of Fishing, Hunting, and Wildlife-Associated – Arizona (National Survey)* and *2016 Trends in Outdoor Recreation, Arizona Game and Fish Department*. The purpose of this study is to see general patterns of wildlife-related recreation and attitudes toward wildlife-related issues within the Arizona constituency. The core group of questions pertains to participation in wildlife-related recreation, and frequency of participation.

Introduction

Arizona has varied habitats that support over 800 native species as well as a significant amount of state and federal lands. As a result of this abundant and diverse wildlife and the large amount of public lands, hunting, fishing, and wildlife viewing are important outdoor recreation activities for many resident and non-resident outdoor enthusiasts.

Arizona has a long tradition of providing recreational opportunities for all types of wildlife recreation. The priority of the Arizona Game and Fish Department (Department) is to maintain and enhance programs for conservation of wildlife resources. The funding for this management is acquired through fees charged to hunters, anglers and trappers and a federal excise tax on hunting and fishing equipment. Other funding sources include Arizona Lottery (Heritage Fund) and tribal gaming revenues (Wildlife Conservation Fund).

Issues Wildlife Related Recreation

Similar to prior studies, 2014 Trends Survey data indicates the wildlife of Arizona contributes to the quality of life of its residents. In 2014 nearly two-thirds (64%) of Arizonans strongly agree that wildlife directly contributes to their quality of life, and 8 out of 9 residents (88%) agree that wildlife directly contributes to their quality of life to some degree. These estimates are consistently high across studies.

A growing human population places increasing demands on wildlife populations, in part because of shrinking wildlife habitat due to human development. Increasing human population and decreasing wildlife habitat also results in loss of areas for recreation, concentrates human activity in existing recreation areas, increases human-wildlife conflicts, and may reduce the quality of habitat available for wildlife due to these competing uses.

Arizona's increasing human population is more urban and less rural. Perceptions among residents regarding uses of wildlife differ. Compliance with regulations becomes a greater challenge as numbers of recreational participants increase and often compete for limited space and resources. Educational efforts must address all Arizonans and target diverse user groups to provide the necessary information to ensure compliance, reduce

conflicts among users and with wildlife, and encourage sustainable enjoyment of Arizona’s diverse wildlife resources.

The demand for access to public and State Trust lands for recreation has increased. Privately owned lands can provide recreational opportunities and access into public and State Trust lands. Collaboration with private landowners results in improved wildlife habitat in exchange for short-term or perpetual access agreements.

Economic Importance of Hunting and Fishing in Arizona

Fishing and hunting recreation generates spending that has a powerful effect on Arizona’s economy. The 2011 National Survey found state residents and nonresidents had a total economic impact of \$2.4 billion from wildlife recreation in Arizona.

In 2011, each angler spent an average of \$561 on trip-related expenses. The average trip-related expenditure per hunter was \$554. The combined spending from hunting and fishing created a total economic impact of over \$1.1 billion to the state of Arizona.

The National Survey recorded 2011 expenditures made by wildlife viewing recreationists. The average of the trip-related expenditures for away from home participants was \$516 per person. The sum of the expenditures plus numerous direct, indirect, and induced impacts equaled \$1.3 billion in Arizona.

Table 2. Fishing, Hunting and Wildlife Watching Summary Information\

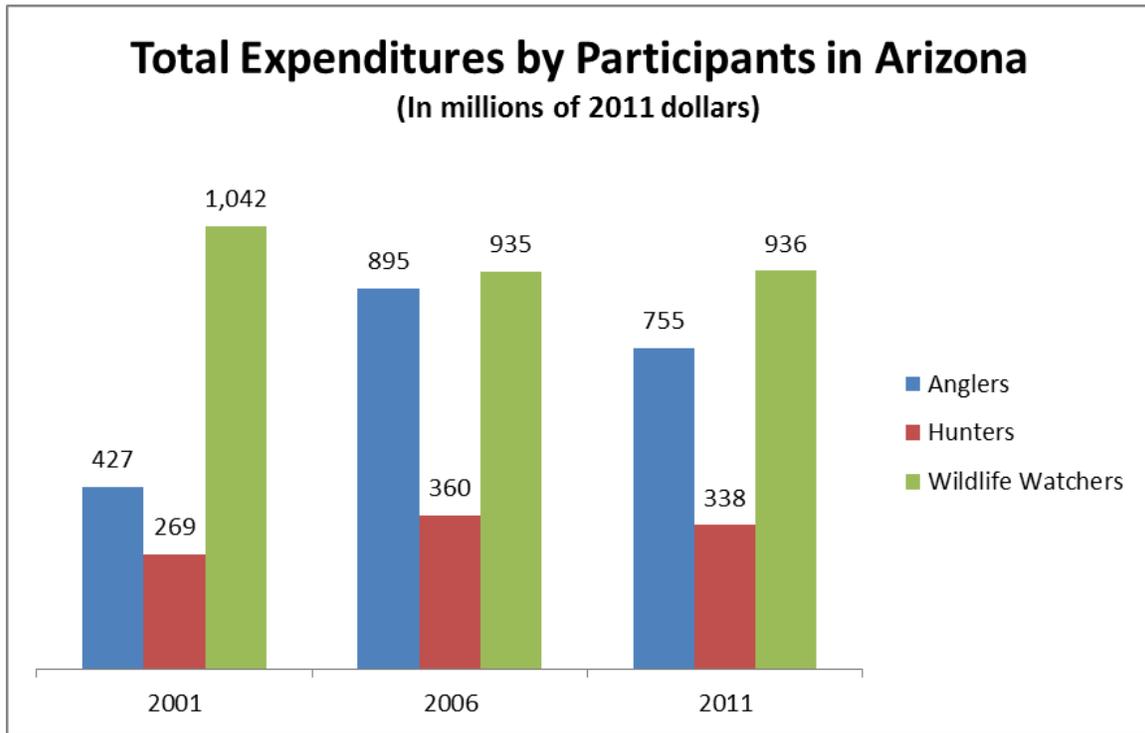
2011 Wildlife-Related Recreation Summary			
Activity	FISHING	HUNTING	WILDLIFE WATCHING
Total Number of Participants**	637,000	269,000	1.6 million
AZ Residents**	533,000	225,000	1.2 million
Number of days Participating	4.8 million	2.6 million	12 million
Total Expenditures	\$755 million	\$338 million	\$936 million
Expenditure per Participant	\$1,190	\$1,120	\$583

Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014.

**Over 16 years old

Total expenditures by participants in the three wildlife-related activities were relatively stable for hunting and wildlife watching between 2001 and 2011. Angler spending jumped between 2001 and 2006 and remained high through 2011(Figure 7).

Figure 7. Total Expenditure by Participants in AZ 2001-2011

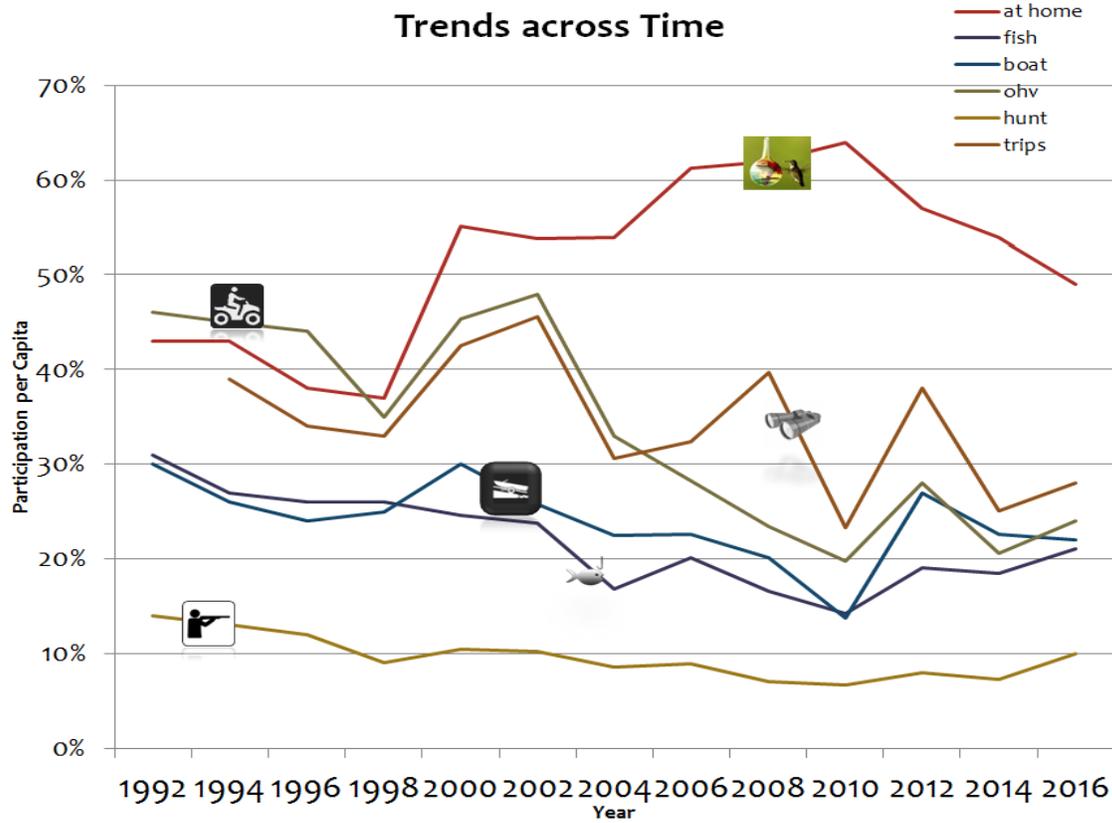


Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014.

Arizona Trends

The Arizona Game & Fish Department surveys Arizona residents biennially to measure trends in wildlife-related recreation (Figure 8.). Activities included wildlife viewing (at home and trips more than one mile to watch wildlife), off highway vehicle (OHV) use, fishing, hunting, and boating.

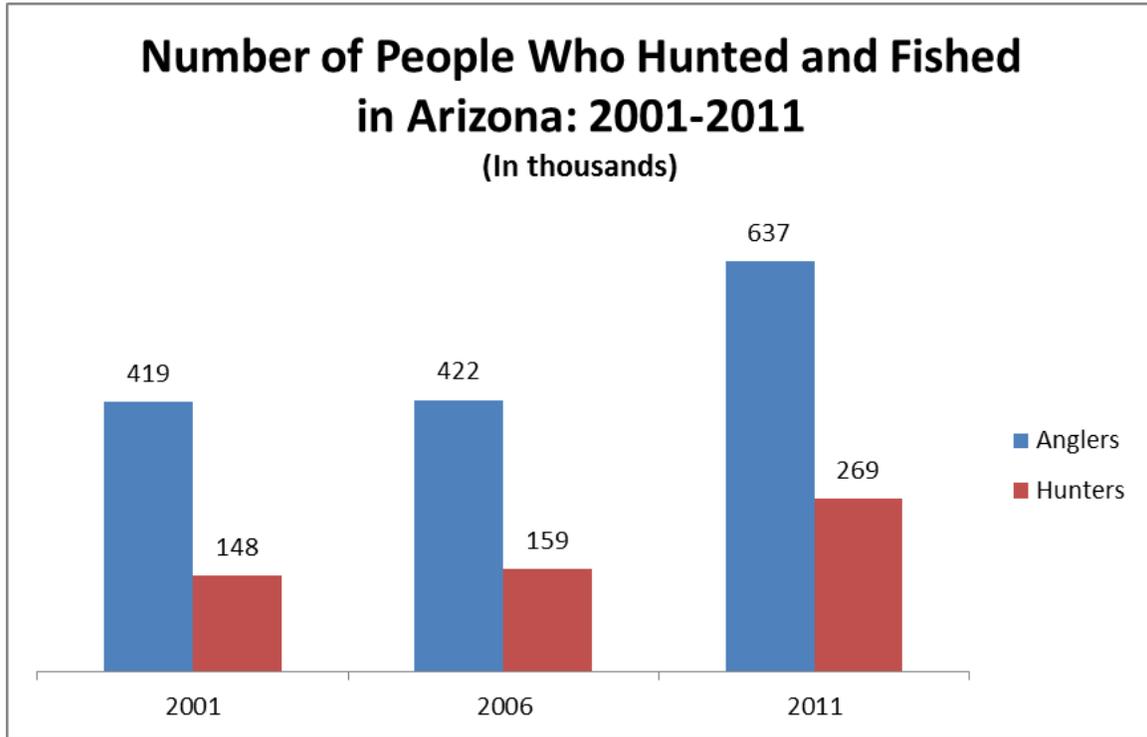
Figure 8. Participation in Wildlife-related Recreation as a Percentage of the Arizona Population



Source: 2016 Trends in Outdoor Recreation, Arizona Game and Fish Department.

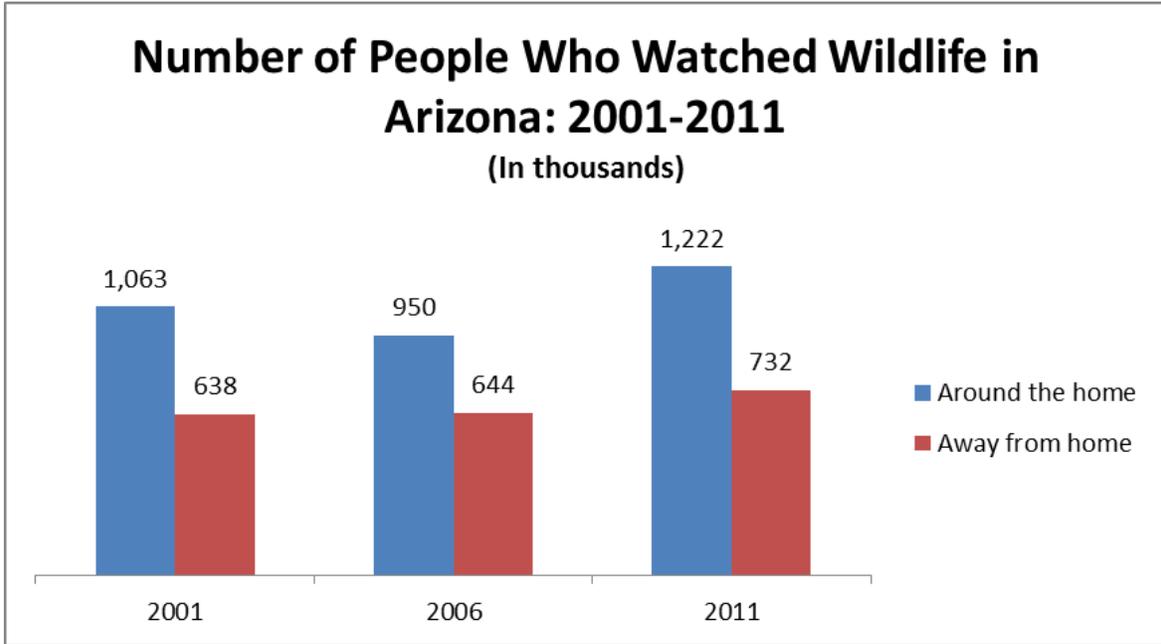
Figures 9 and 10 show trends in numbers of wildlife-related recreation participants in 2001, 2006 and 2011. Numbers of participants increased between 2001 and 2011 for all three groups of outdoor enthusiasts, but were most consistent for wildlife watchers.

Figure 9. Number of People Who Hunted and Fished in AZ 2001-2011



(2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014)

Figure 10. Number of People Who Watched Wildlife in AZ 2001-2011



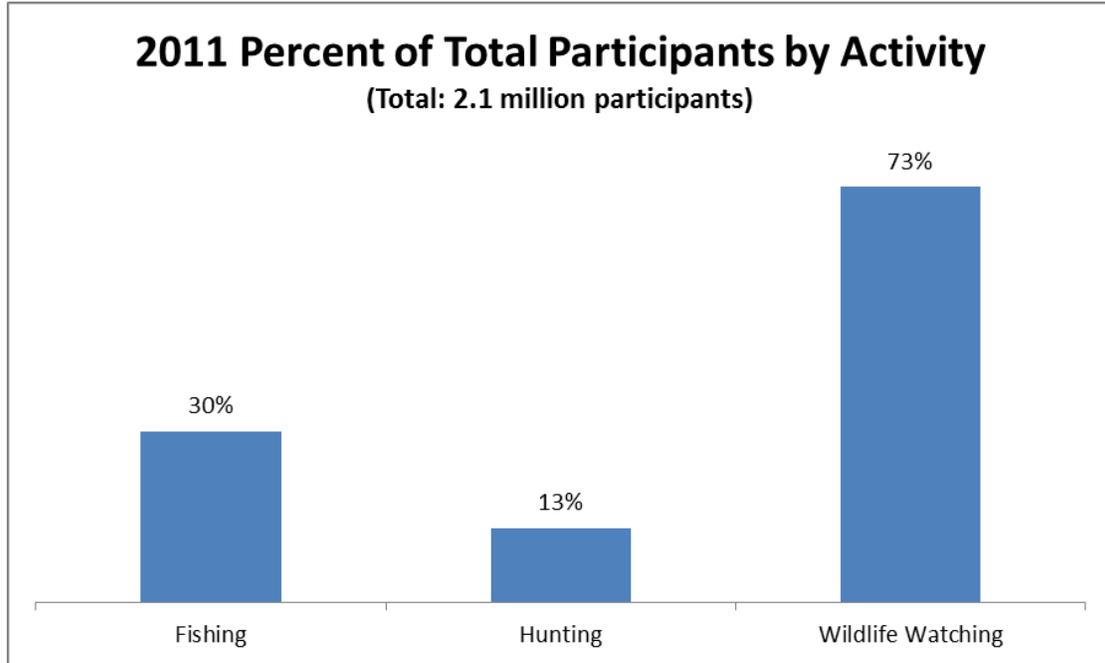
Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014.

Participation in Wildlife-Related Recreation

In the past, per capita participation in outdoor wildlife-related recreation has generally declined as a result of the growth of the general population outpacing the growth of recreationists (Figure 11). This phenomenon is illustrated by both hunting and fishing. In some activities, such as OHV recreation, there is also a decline in actual numbers of recreationists. In 2016, in all activities except watching wildlife at home and boating recreation there was a slight increase in participation.

In 2011, 2.1 million Arizona residents and non-residents 16 years old and older fished, hunted or watched wildlife in Arizona. The sum of anglers, hunters and wildlife watchers exceeds the total number in wildlife-related recreation because many of the individuals engaged in more than one wildlife-related activity.

Figure 11. 2011 Percent of Total Participants by Activity



Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014)

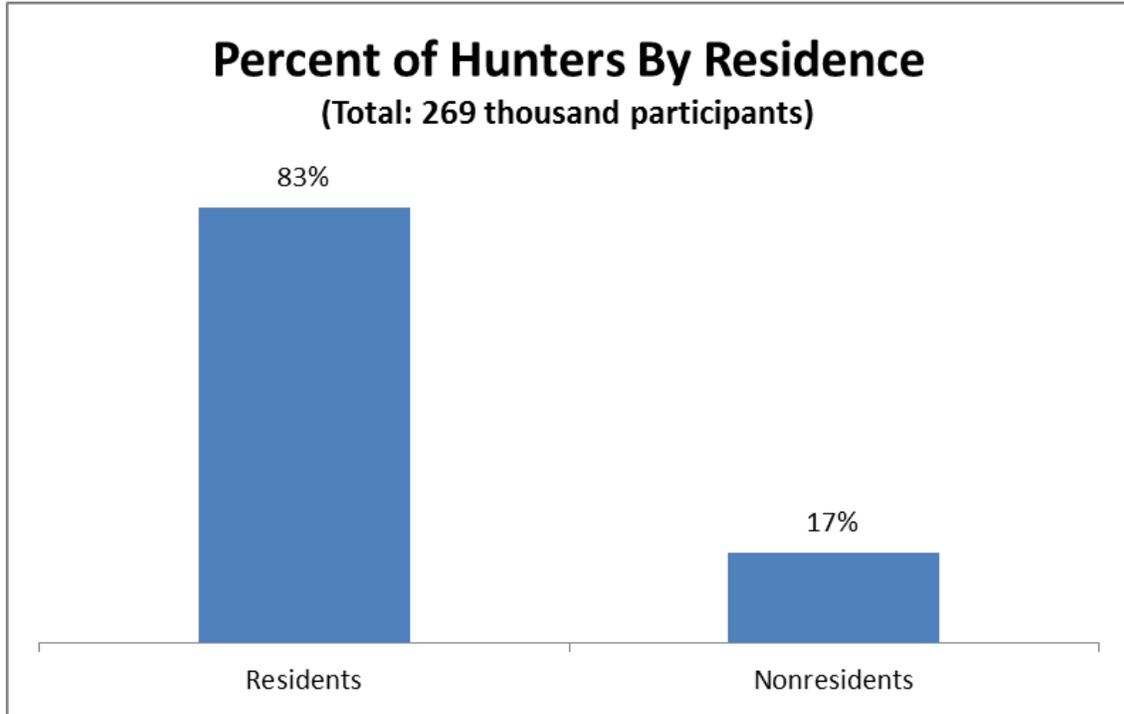
Participation - Hunting

The Trends Survey reported a large majority of Arizonans strongly support wildlife-related recreation; 82% support legal, regulated hunting, and 92% support legal, regulated fishing. However, the motivations of the recreationist strongly affect the acceptability rating of the respondent.

Since the initiation of trend data collection, Arizona has experienced an average reduction of hunters of 0.6% annually. The National Survey and the 2012-16 Trend Surveys suggest hunting may have experienced a recovery or halt to the declining trend.

In 2011, resident hunters accounted for 83% of the hunters in Arizona. Seventeen percent of hunters were non-residents (Figure 12.). Residents and non-residents hunted an average of 10 days in 2011.

Figure 12. Percent of Hunters by Arizona Residents and Nonresidents



(2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014)

Purchases of hunting licenses had a spike in 2014 (Table 3). The Game and Fish Department introduced an adjusted fee schedule beginning that year. Most license sales, except those for resident hunting and fishing licenses, have increased each year since 2012.

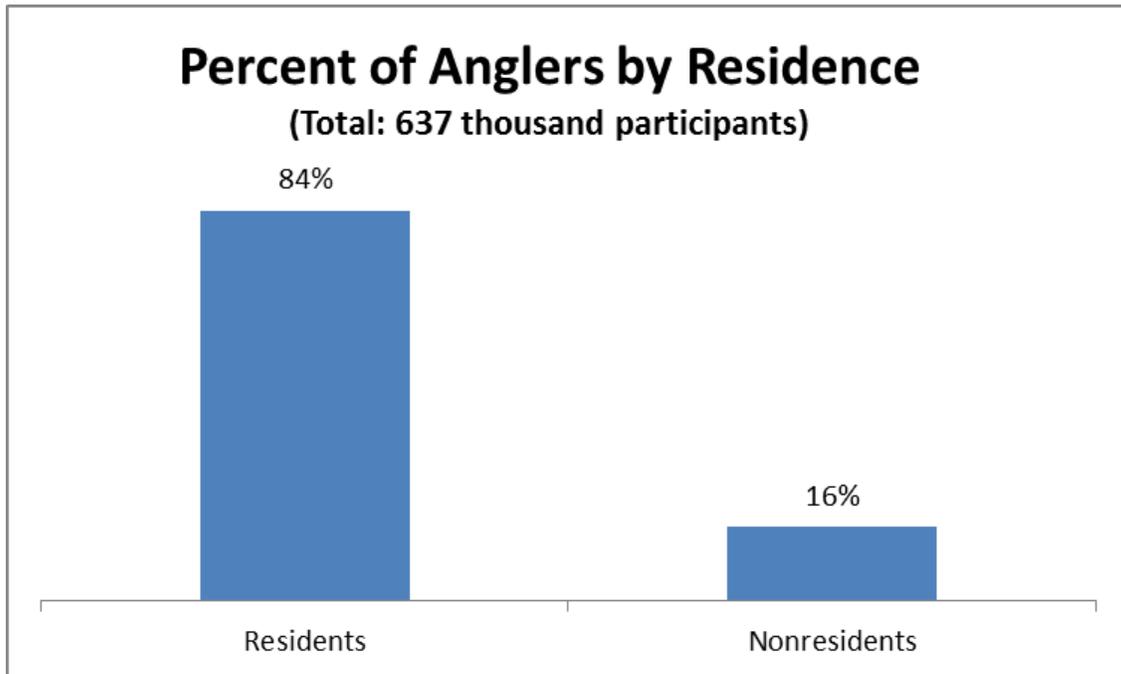
Table 3. Number of Hunting and Fishing Licenses Sold in AZ 2012-2015

Number of Hunting and Fishing Licenses Sold in AZ 2012-2015 (Over 16 years old)				
YEAR	2012	2013	2014	2015
Resident Hunt*	109,030	129,118	242,311	149,669
Non-Resident Hunt*	19,864	21,719	23,483	24,571
Resident Fish**	179,161	177,051	168,156	152,291
Non-Resident Fish**	11,371	10,970	17,744	18,220
*Including Combo				
**Including Urban/Community				

Participation - Angler

Although the actual numbers of anglers has declined in the past, there has been an increase since 2010. In 2011 84 % of the participants were residents and 16% were non-residents. Non-residents fished 14% of all fishing days in the state that year. On average Arizona anglers in 2013 spent 21 days fishing.

Figure 13 Percent of Anglers by Arizona Residents and Nonresidents



Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014

Participation - Off-Highway Vehicle

Although OHV participation was not as high as the 28% use by Arizonans in 2012, there was an apparent increase in use in 2016 from 2014. As with boating, OHV recreation seems to be tied to the economic conditions contemporary to the study timeframe.

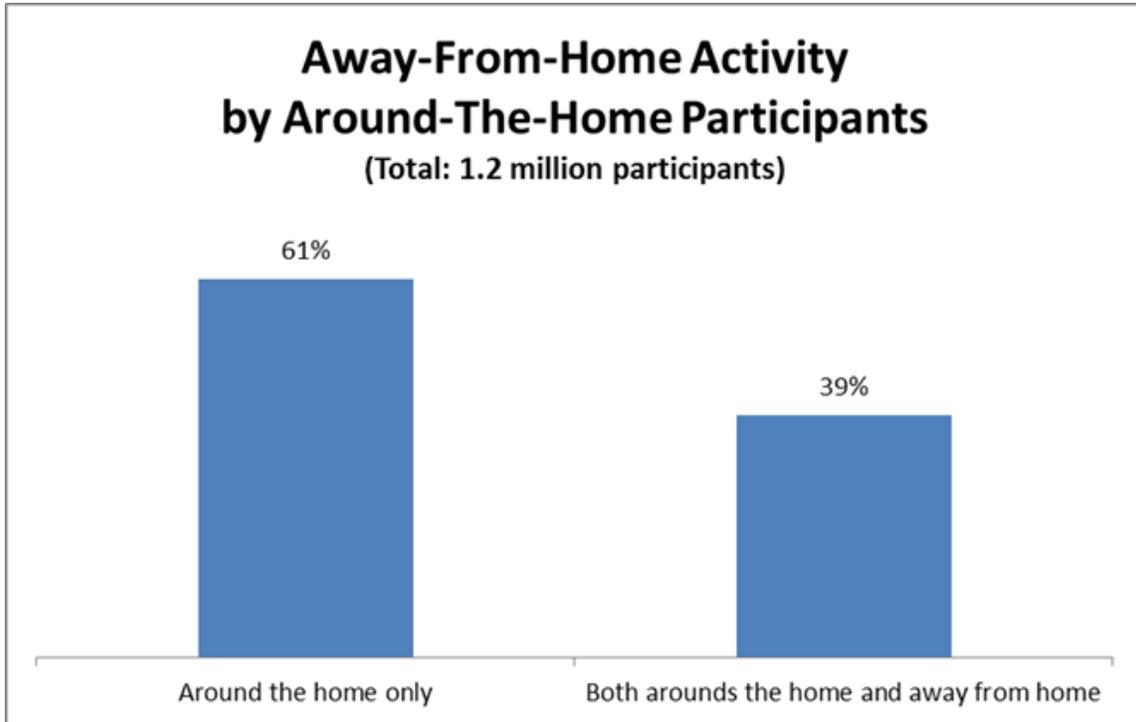
Participation - Wildlife Viewing

Since 1991, the National Surveys have collected data only for those activities where the *primary* purpose was wildlife watching. Two types of wildlife watching activity are reported: (1) more than one mile away from home and (2) one mile or less from home.

The 2011 National Survey found 78% of wildlife watchers in Arizona enjoyed their activities close to home. The 732,000 people participating in away from home activities made up 47% of all wildlife watchers in Arizona. Arizonans spent nearly 7.7 million days engaged in away from home wildlife watching activities in the state. In addition, 39% of

Arizonans around the home wildlife watchers also enjoyed watching wildlife away from home (Figure 14.).

Figure 14. 2011 Away From Home activity by Around the Home Participants



Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014)

The Trends Surveys show since 2006, Arizonans have participated in wildlife viewing more than any other wildlife-related activity, particularly when viewing from home or in neighborhoods is included (Figure 8.). In 2016, a little less than 50% watched wildlife within 1 mile of their residence and over 25% of Arizonans made a trip with the primary purpose of viewing or photographing wildlife. The variability of this activity is higher than other recreational pursuits. This variation suggests wildlife viewing is not as central to the lifestyle of its participants because participation appears to be contingent upon external factors such as disposable income, consumer confidence, etc.

Table 4. 2011 Selected Characteristics of Arizona Resident Anglers, Hunters, and Wildlife Watchers

Selected Characteristics of Arizona Resident Anglers, Hunters, and Wildlife Watchers 2011 (in thousands)											
Characteristic	Population 16 Years and Older		Anglers			Hunters			Wildlife (WL) Watchers		
	Number	%	Number	% who Participated	% of Anglers	Number	% Who Participated	% of Hunters	Number	% Who Participated	% of WL Watchers
Total Persons	5,084	100	586	12	100	259	5	100	1,281	25	100
Population Density of Residence											
Urban	4,006	79	402	10	69	128 ¹	3 ¹	49 ¹	908	23	71
Rural	1,078	21	184	17	31	131 ¹	12 ¹	51 ¹	373	35	29
Sex											
Male	2,443	48	403	16	69	217	9	84	593	24	56
Female	2,641	52	183	7	31	*	*	16	688	26	54
Ethnicity											
Hispanic	1,193	23	146 ¹	12 ¹	25 ¹	*	*	9 ¹	1,233	20 ¹	18 ¹
Non-Hispanic	3,890	77	440	11	75	235	6	91	1,048	27	82
Race											
White	3,997	79	462	12	79	223	6	86	1,151	29	90
African American	166	3	*	*	*	*	*	*	*	*	*
All Others	921	18	120 ¹	13 ¹	20 ¹	*	*	*	112 ¹	12 ¹	9 ¹
¹ Estimate based on small sample size. * Sample size too small to report data reliably.											

Source: 2011 U.S. Fish and Wildlife Service National Survey of Fishing Hunting and Wildlife-Associated Recreation. Revised 2014.

2.5 HISTORIC PRESERVATION AND OUTDOOR RECREATION IN ARIZONA

By Eric Vondy, Preservation Incentive Program Coordinator, State Historic Preservation Office

While outdoor recreation is normally associated with activities such as hiking, fishing, and camping, historic preservation also plays an important role. From walking tours of historic neighborhoods to visits to archaeological parks, historic preservation acts as an economic driver to spur cultural heritage tourism. This is particularly effective for driving tourism to rural Arizona. For example, a 2012-2013 Survey of Tourism in Cochise County by Northern Arizona University found that over 70% of visitors were very interested in visiting heritage sites associated with Old West History ([Northern Arizona University's Cochise County Visitor Survey, 2012-2013](#)).

Historic communities like Bisbee, Tombstone, and Seligman continue to thrive because of cultural heritage tourism. Bisbee is one of several Arizona communities that has become an arts center by utilizing the unique character of the town's historic buildings to attract artists. Tombstone, on the other hand, survives and thrives due to its connection to Arizona's Wild West past. Seligman capitalizes on its location on Historic Route 66. Other communities such as Cottonwood, Clifton, and Nogales are working to capture the cultural heritage traveler by using preservation to revitalize their

downtowns.

All of these communities aid outdoor recreation by providing accommodations in their communities, providing sites to visit and learn about the area's past, and giving visitors reasons to stay longer in their respective regions. Bisbee and Tombstone, for example, are located near an array of public lands that allow activities such as hiking in the Huachuca Mountains, birding at the San Pedro Riparian Preserve, fishing at Parker Canyon Lake or riding ATVs along the Ghost Town Trail.

National Parks

An examination of the parks and properties managed by the National Park Service in Arizona shows the importance of preservation. Twelve of the twenty-two national parks, monuments and historic sites in Arizona celebrate the State's history and protect priceless cultural resources. These sites garner nearly 2 million visitors a year.

Figure 15. Grand Canyon Historic Village

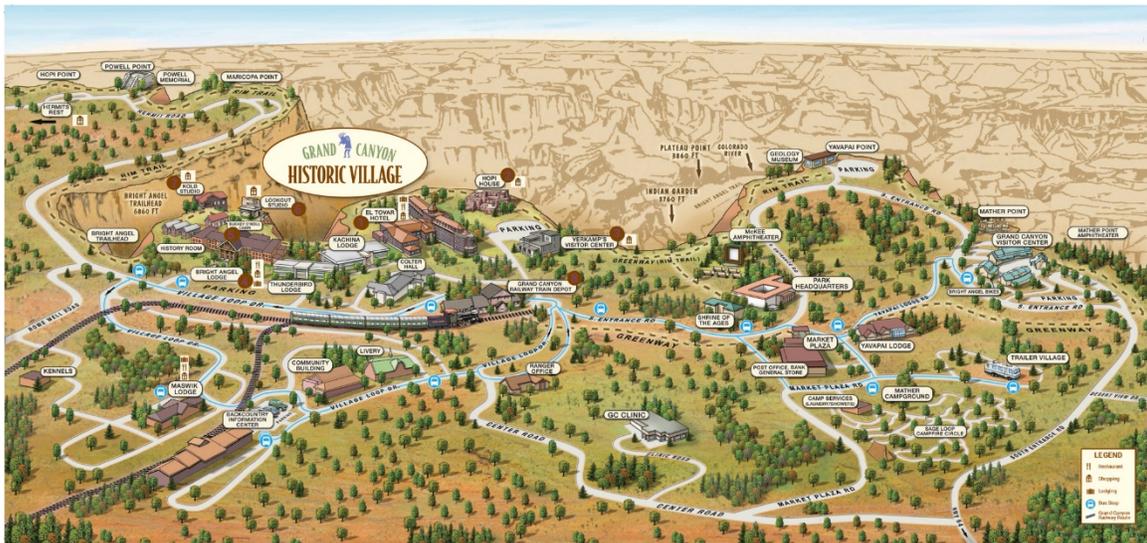
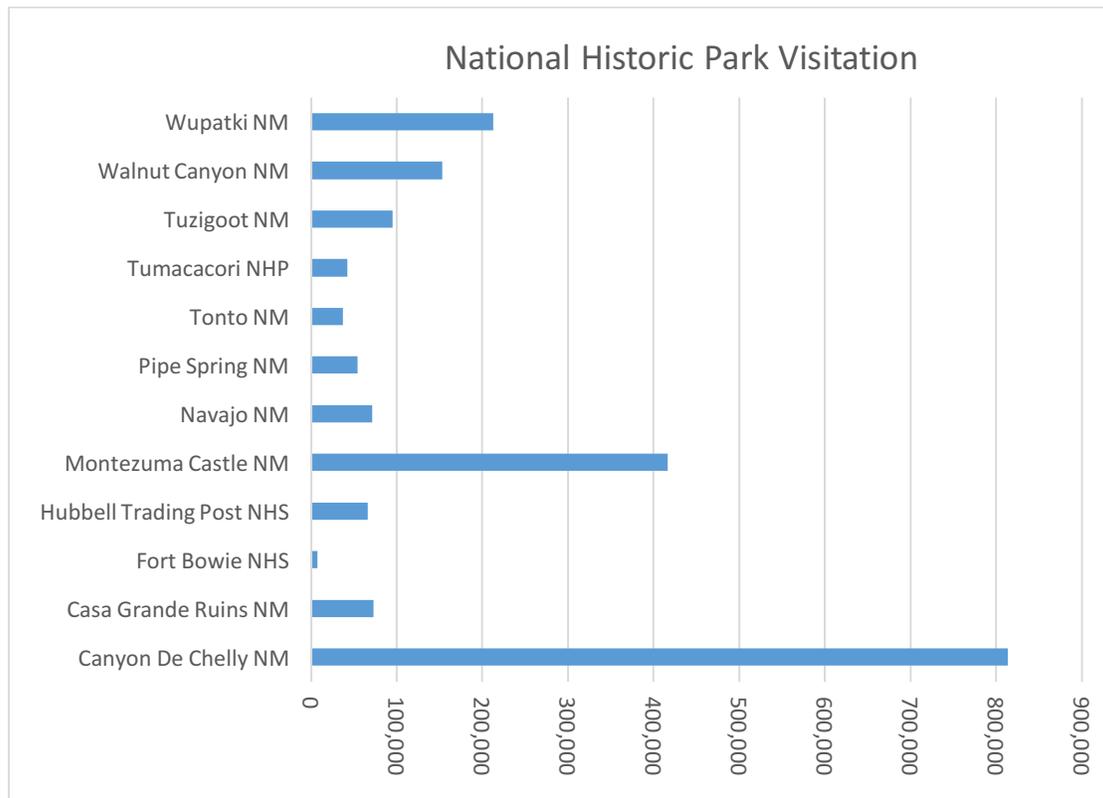


Figure 16. National Historic Park Visitation



Grand Canyon National Park is by far the most visited National Park in Arizona – receiving over 5 and a half million visitors in 2015. While the Grand Canyon, a geologic wonder, is the primary draw for tourists, there are also seven National Historic Landmarks on the park, as shown in the illustration below. Historic sites include: El Tovar Hotel, Grand Canyon Railroad Depot, Grand Canyon Lodge, Grand Canyon Park Operations Building, the Grand Canyon Power House, and Grand Canyon Village with 257 contributing properties, as well as the buildings designed by famed architect Mary Colter.

Local Identity and Economic Impact

Many communities that utilize historic preservation to attract visitors are also focusing on the development of outdoor recreation to enhance the visitor experience and prolong visits. For decades, Tombstone has focused the story of its community around the OK Corral gunfight to encourage economic growth. In order to expand its visitor base and appeal to a broader range of tourists, the town is identifying alternative stories and means of expanding its economic base. In recent years, Tombstone has cleared and opened an old mine for tourism. Outdoor activities have started to develop such as birding, hiking, horseback riding, and jeep tours.

Communities like Bisbee, Jerome, and Tubac use their historic structures to attract artists who in turn have converted these old towns into artist communities and popular

weekend getaway destinations. USA Today voted Bisbee the Best Historic Small Town in 2016 while in Sunset Magazine picked it as the Best Small Town of 2016.

Niche Markets

In recent years tourism has become more focused on niche markets, which includes tourist destinations like ghost towns, historic cemeteries, historic trails, historic vehicle routes, and dark tourism. Below are some examples in Arizona of niche markets.

Table 5. Arizona’s Niche Tourism Markets

Ghost Towns	<ul style="list-style-type: none"> • Fairbank • Pearce • Contention City • Chloride • Ruby
Historic Cemeteries	<ul style="list-style-type: none"> • Pioneer and Military Memorial Park • Pinal City Cemetery • Adamsville Cemetery • Harshaw Mexican Cemetery • Hi Jolly Cemetery Historic Monument & Park
Historic Trails	<ul style="list-style-type: none"> • Juan Baptiste de Anza Historic Trail • Old Spanish National Historic Trail • El Camino del Diablo • Beale Wagon Road • Butterfield Mail Route
Historic Vehicle Routes	<ul style="list-style-type: none"> • Route 66 • US 80 • Apache Trail • State Route 83 • State Route 82
Dark Tourism	<ul style="list-style-type: none"> • Yuma Territorial Prison • Titan Missile Museum • Skeleton Canyon • OK Corral Gunfight Site • Battle of Picacho Pass

Archaeological Sites

Arizona is gifted with a long and diverse history, beginning about 12,000 years ago. Remnants of the cultures that occupied Arizona can be found throughout the state. These archaeological sites tell the story of Arizona’s past.

Examples of our prehistoric and historic past range from ancient petroglyphs and melted adobe or stone house mounds, to historic period cement building foundations and roads, bridges, and dams. These sites may be features along, or destinations of trails; they may exist in a park or recreation area that provides other outdoor recreation opportunities, or may be protected and managed as a specific site. It is important that members of the recreating public are taught to respect and protect sites and artifacts that they may experience during their recreation experience, as they are non-renewable cultural resources and once they are gone, they are gone forever. To help preserve important pieces of Arizona's history in the outdoors, please visit <http://azstateparks.com/SHPO/etiquette.html>.

2.6 WATER BASED RECREATION IN ARIZONA

Arizona has a variety of rivers, natural lakes and reservoirs that provide opportunities for boating, swimming, water skiing, and fishing. The state can be divided up into four water-based recreation regions; Colorado River, Northern, Southern, and Central.

- The Colorado River is the largest and most popular waterway, running along the north Utah boarder down the west side of Arizona from Nevada to California and exiting the state at the Mexico border. This river is used by many Arizonans and Californians.
- The Northern Region includes many lakes in the Coconino National Forest such as Upper Lake Mary, Apache-Sitgreaves National Forest with Luna Lake and Willow Springs, White Mountain Apache Indian Reservation with Big Lake and Reservation Lake, Arizona State Parks and Trails with Lyman Lake and Fool Hollow Lake, and Clear Creek Reservoir in Navajo County.
- The Central Region includes waterways run by the Tonto National Forest such as Roosevelt Lake, Apache Lake, Canyon Lake and Saguaro Lake on the Salt River, and Horseshoe Lake and Bartlett Lake on the Verde River. Arizona State Parks and Trails manages Alamo Lake, and Lake Pleasant is run by Maricopa County Parks and Recreation.
- The Southern Region includes San Carlos Lake, run by the San Carlos Apache Tribe, Patagonia Lake and Roper Lake are Arizona State Parks and Trails, and the Coronado National Forest has the popular Parker Canyon Lake and Peña Blanca Lake.

Arizona's Northern, Central, and Southern Region lakes and reservoirs are much more remote than the Colorado River. Because they are inland these lakes and reservoirs are very popular for fishing, camping, boating, picnicking, and enjoying the great outdoors primarily for Arizonans.

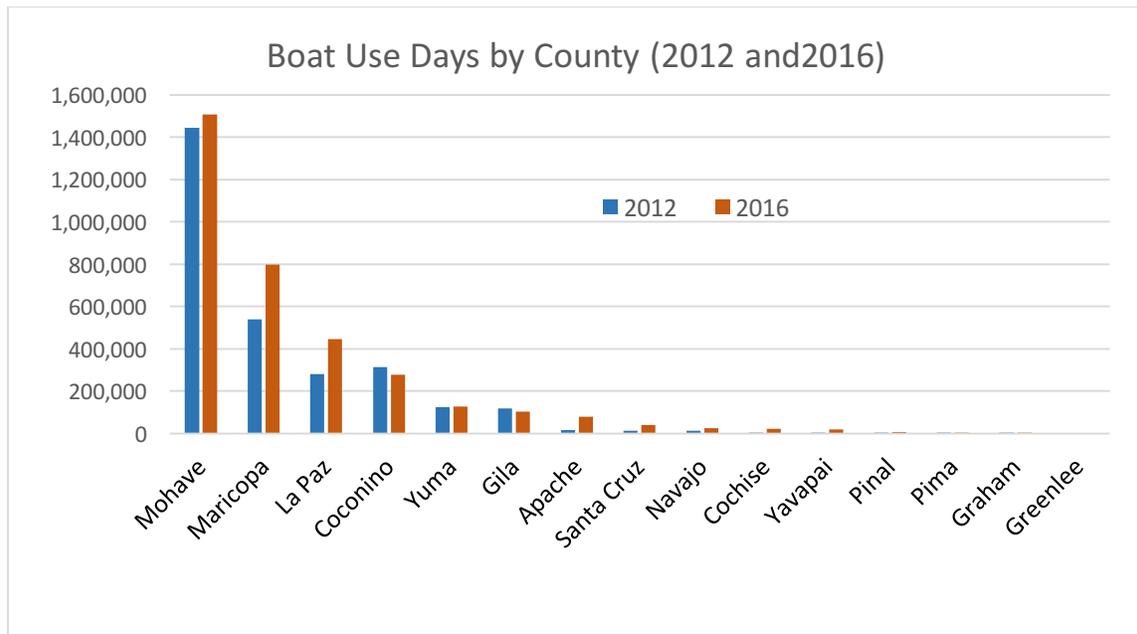
2.6.1 Arizona Watercraft Survey

The Arizona Game & Fish Department (AGFD), and the Arizona State Parks and Trails Board (ASPTB) conduct a study with boaters from Arizona, California, Nevada & Utah every three years that provides information about recreational watercraft usage patterns on Arizona's lakes and rivers. This information provides essential safety, development, recreation and tourism related information and also helps to direct the spending of State Lake Improvement Fund (SLIF) monies. SLIF monies are generated through motor vehicle fuel tax attributed to watercraft usage in the state.

- 17% of registered watercraft owners in Arizona, California, Nevada and Utah used their boats in Arizona during a given 30 day period between April 2015 and April 2016. This percentage has increased since 2012, when 13% of users reported boating on Arizona waterways in the last 30 days.
- 46.5% used their boat on an Arizona waterway during the last year, an increase when compared to 42.5% in 2012.

Total boat use days in 2016 were 3,455,589, a 20% increase over boat use days recorded in 2012. Similar to the prior five studies, Figure 17 shows Mohave County is the dominant boating location in Arizona with 43.6% of total boat use days – down from 50.3% in 2012. The study also reveals increased boat use in Maricopa County (+48%), and La Paz County (+60%) in 2016. Approximately seven-tenths (71%) of boat use days on Arizona lakes and waterways are accounted for by Arizona boaters, while 23% are accounted for by California boaters.

Figure 17. Boat Use Days by County (Comparison between 2012 and 2016)



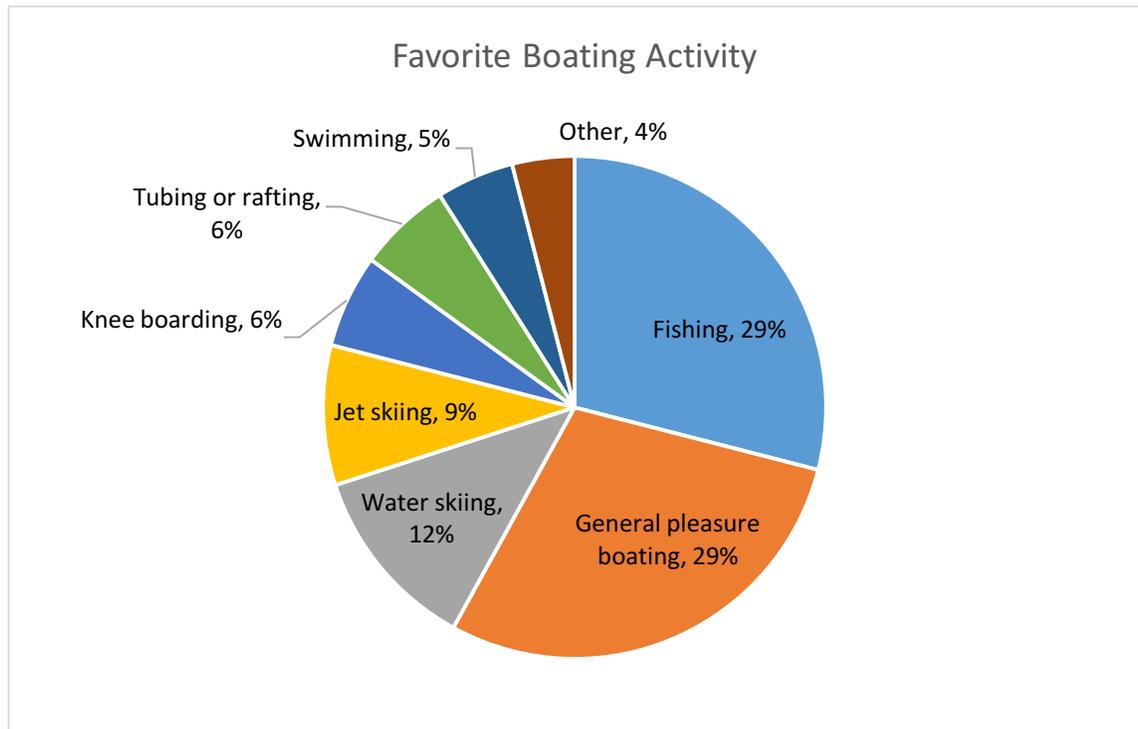
Person use days also increased from 13,406,815 in 2012 to 15,201,231 in 2016– a 13%

increase. Arizonans account for the largest share of person use days – 67.6% (up from 52.8% in 2012), followed by California boaters (26.1% down from 36.1% in 2012).

Survey Questions

- Boater spending was up (\$415 in 2016 compared to \$316 in 2012). The typical Arizona boater spends \$329 per day compared to \$694 for California boaters, \$213 for Nevada boaters and \$600 for Utah boaters.
- Boaters were asked how important they feel each of six SLIF funding functions are. The four highest rated functions (rated very or somewhat important by roughly eight out of ten boaters or more) were: 1) the construction of recreation support facilities such as restrooms, campgrounds and picnic tables; 2) the construction of water-based boating facilities such as marinas, launch ramps and piers ; 3) the construction of first-aid stations and other safety facilities ; and 4) the purchasing of law enforcement and safety equipment such as patrol boats, radios and lights. These four functions have remained at the top of the importance list over the past six studies. Public restrooms and launch ramps were the two facilities that boaters reported were most needed at their favorite lake.

Figure 18. What is Your Single Favorite Boating Activity on a Typical Boating Trip?



- A question was asked to determine boaters’ single favorite boating activities. Eleven different boating activities were evaluated, the top three activities were: 1) fishing ; 2) general pleasure boating ; and 3) water skiing (Figure 18). Providing first aid stations (42%) and marking submerged rocks and other hazards (39%) are two law

enforcement activities which boaters would most like to see increased at their favorite lake or river.

2.7 OFF-HIGHWAY VEHICLE RECREATION IN ARIZONA

Arizona State Parks and Trails is currently conducting an inventory of OHV trails in the state. In this process, it has become clear that Off-highway Vehicle (OHV) recreation opportunities in Arizona are abundant. Having one of the most diversified geographies of all states presents OHV enthusiasts almost endless opportunities to explore the backroads, old mining trails, sand dunes and other historical locations.

As OHV recreation has grown in popularity, manufacturers of OHV vehicles have engineered vehicles to seat more people. This has caused a shift in what used to be primarily an individual, male dominated sport into an activity enjoyed by the entire family. In past years a family would have to buy 4 individual machines now and can now buy just one.

The shift in OHV recreation from an individual sport to a family activity has also had a tremendous impact on the Arizona economy. Now that families are buying off-highway vehicles there is more need to purchase the supporting supplies that accompany the activity. OHV recreation encourages purchasing everything from specialized apparel such as helmets, gloves, and eye protection, to utility trailers for towing vehicles to recreational vehicles used for camping.

Arizona has also begun to see OHV related business, conventions, and rallies come to various areas of the state. Within the past two years, one of the largest OHV trade shows took place in Scottsdale, Arizona. OHV rallies also draw riders to rural areas of the state as well. Rallies are common in Lake Havasu in the winter months and Springerville/Eager in the summer months. Mormon Lake area, near Flagstaff, hosts the Overland Off-Road Expo and a UTV rally every year. It is not unusual for OHV rallies bring in upwards of 200 families to small communities throughout the state.

To support the growth of OHV recreation opportunities Arizona State Parks and Trails and other recreation providers could attract OHV campers to recreation areas in popular riding locations. For example, State Parks such as Buckskin Mountain, River Island, and Cattail Cove are well positioned to host OHV campers wishing to explore the numerous OHV trails in the Parker Strip and Lake Havasu area.

Often OHV recreation can be combined with other forms of recreation. On a typical fall or spring day at River Island State Park outside Parker, AZ it is not usual to see a group of RVs camping together take off in their UTVs for a trip to the Desert Bar only to return several hours later and put kayaks into the Colorado River for an evening trip down river or they can often be seen on the hiking trails that are part of the River Island and Buckskin Mountain State Park.

Other opportunities to support OHV recreation activities, such as the OHV Show Me Rides currently offered by the Arizona OHV Ambassadors through the AZ State Parks

OHV Program, offer riders a chance to get to know popular OHV riding areas around Arizona. The impact of these type of events can be seen from a recent Show Me Ride event conducted at the Boulders OHV area outside of Phoenix which attracted 11 families. Nearly every family left the event with a check list of safety/maintenance items to be purchased and a list of locations all around the state for OHV recreation. Afterwards, attendees of the Show Me Ride reportedly showed up in destination as far as 300 miles away to explore the State’s OHV recreation opportunities.

2.7.1 NON-MOTORIZED TRAIL RECREATION IN ARIZONA

Many Arizonans and visitors experience the natural beauty of Arizona by hiking, backpacking, running, mountain biking, or riding a horse on trails. These trails are developed, maintained and managed by many federal, state, county, city/town and non-profit entities and serve to not only provide recreation opportunities, but also connect communities and generate economic opportunities at the local level. The Arizona Trails Plan, an information filled report, conducted every five years, includes recommendations and action strategies to protect and enhance trails throughout the state from both trail users and providers. Below are the priorities that emerged from the most recent 2015 Trails Plan.

Table 6. Arizona Trail Plan Recommendations

2015 AZ Trail Plan Recommendations	
First Level Priorities	
Motorized	Non-motorized
<ul style="list-style-type: none"> • Protect access to trails/acquire land for public access • Maintain and renovate existing trails and routes • Provide and install trail/route signs • Establish and designate motorized trails, routes and areas 	<ul style="list-style-type: none"> • Routine maintenance of trails • Renovation of existing trails and support facilities • Acquire property or easements for trail access • Mitigate and restore damage to areas surrounding trails
Second Level Priorities	
<ul style="list-style-type: none"> • Develop support facilities • Provide maps and trails/route information • Mitigate and restore damage to areas surrounding trails, routes and areas 	<ul style="list-style-type: none"> • Construct new trails • Develop support facilities • Provide and install trail signs • Provide educational programs
Third Level Priorities	
<ul style="list-style-type: none"> • Provide educational programs • Completion of environmental/cultural clearance and compliance activities 	<ul style="list-style-type: none"> • Enforce existing rules and regulations • Provide maps and trail information

<ul style="list-style-type: none"> • Increase on-the-ground management presence and law enforcement 	
--------------------------------------------------------------------------------------------------------------------	--

In addition to the priorities of the Arizona Trail Plan, Arizona State Parks and Trails is committed to connecting communities through trails. The Flagstaff Urban Trail System (FUTS), is a prime example of a city-wide non-motorized, shared-use trail network managed for use by bicyclists, walkers, hikers, runners, cross-country skiers and other users. FUTS trails offer an incredibly diverse range of experiences; some trails are located along busy streets, while others traverse beautiful natural places. This connectivity increases residents and non-residents opportunities for healthy outdoor recreation within the city while linking communities and businesses along the path.

The system currently includes 55 trails, which connect to an additional 300 trails, (including the Arizona Trail – an 800 mile trail that stretches from Utah to Mexico - as well as to 17 other trails on federal and county lands). The trails in the FUTS are used for both recreation and transportation, and enhance communities by providing safe alternatives to auto use, provide health benefits to residents, and increase property values of surrounding sites. The system connects neighborhoods, shopping, places of employment, schools, parks, open space and surrounding national forest. This system also offers opportunities for transportation between outlying communities and the city center. The overall master plan, which includes continual public input, proposes 77 miles of future trails, to complete a planned system of 132 miles.

2.8 PUBLIC LAND IN ARIZONA

2.8.1 Outdoor Receration Providers

In total approximately 82% of lands in Arizona are managed by various tribes, federal and state agencies, many of whom are responsible for providing for both the outdoor recreation needs of the state’s residents as well as for the protection and preservation of land for future generations.

While many Arizonans travel away from home to enjoy the vast opportunities provided by Arizona’s public lands, local governments provide most residents with daily accessible outdoor recreation opportunities and programs. Many of the 15 counties in Arizona operate their own parks as well. These regional parks may contain lakes, recreation and aquatic centers, environmental education opportunities, miles of trails, camping, and event venues.

Nonprofit organizations and private businesses deliver recreational activities not provided by government agencies. Local nonprofit organizations such as Riordan Action Network or Friends of Tubac Presidio State Historic Park, partner with government organization to manage museums and restore historic sites. The Nature Conservancy and other national organizations aid in acquiring and managing more remote natural and cultural areas.

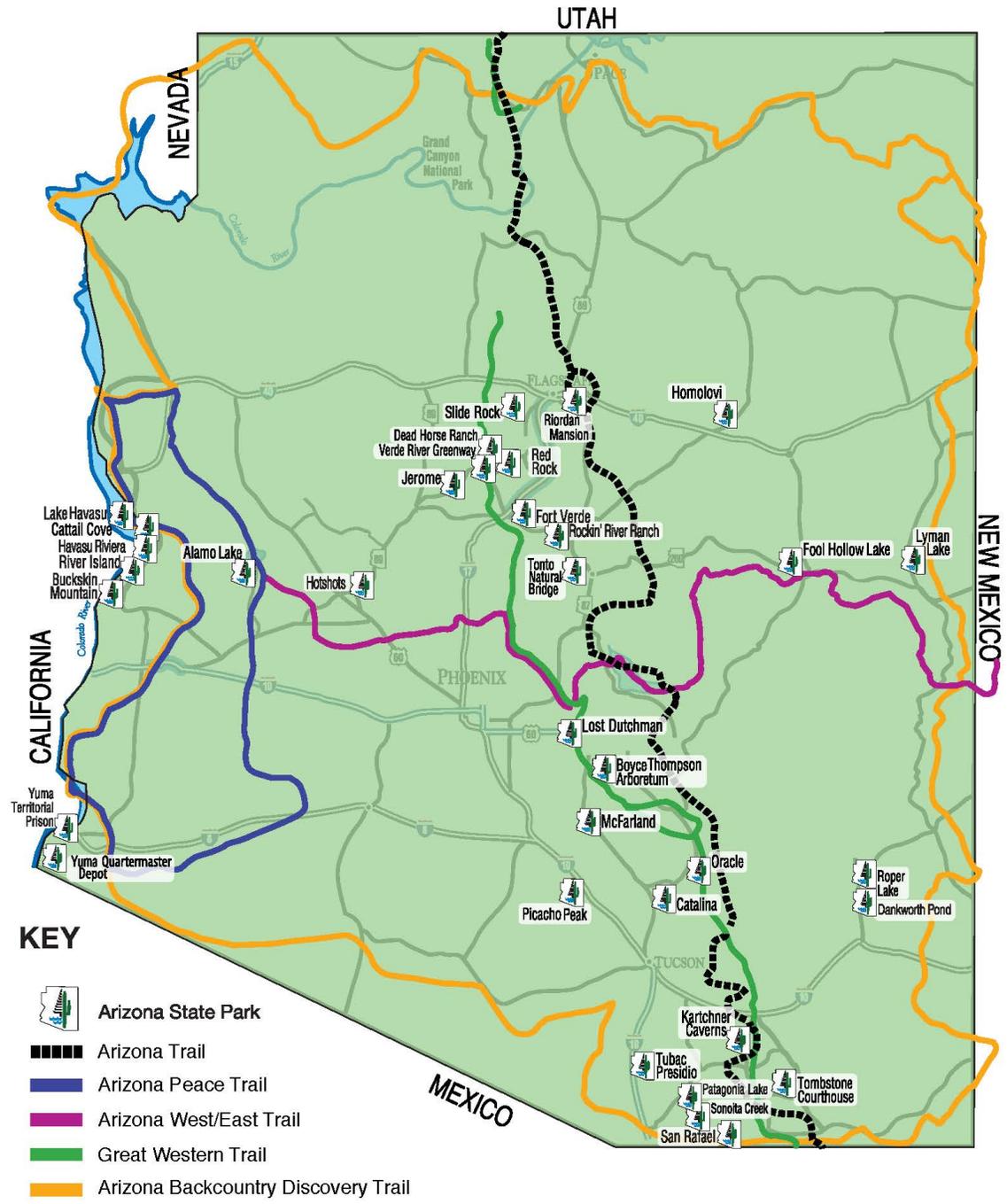
Private businesses such as tour guides, outfitters, and rental companies offer a wide range of services to the recreating public.

As discussed earlier, Gallup Poll data, collected regularly since 2009 for the Center for the Future of Arizona, indicates that the a balance between population growth and preservation of open spaces is important to residents of the state. There are many organizations, public and private, that serve to provide opportunities to recreate outdoors while protecting Arizona’s scenic, special places. Some of the public land management organizations which provide recreation opportunities in the state are noted below.

Figure 19. Arizona’s Outdoor Recreation Providers



Figure 20. Arizona State Parks and Trails Map



2.8.2 Arizona State Parks and Trails

MISSION - Managing and conserving Arizona's natural, cultural, and recreational resources for the benefit of the people, both in our parks and through our partners.

VISION - Arizona State Parks and Trails is indispensable to the economies, communities, and environments of Arizona.

WHAT WE DO - For over half a century, more than thirty exceptional parks have been preserved, enhanced and protected for the enjoyment of locals and visitors across the state of Arizona. These lands, lakes, rivers, historic buildings and rich natural areas offer recreational and educational opportunities to individuals, families, businesses, and communities.

Arizona State Parks and Trails not only promote physical, spiritual, and mental health and wellness within communities and the state, but are strong economic drivers as well. Arizona State Parks and Trails secures funding for recreational and educational programs, drives increased local visitation and provides financial resources to recreational programs and partners throughout the state. Helping to drive the economy, enhance and protect local communities and cultures, Arizona State Parks and Trails are representations of pride throughout our state.

60TH Anniversary

Arizona became the 48th State of the United States on February 14, 1912, making it one of the youngest states. This is also true for the Arizona State Parks and Trails system, established in 1957. Following numerous unsuccessful attempts to create a state parks system in Arizona, a 1956 article written for the Arizona Republic, intensified support by interested citizens who joined together for the creation of Arizona State Parks and Trails. Through these efforts the department was created to acquire and manage park and cultural areas.

Today Arizona State Parks and Trails is nearing a milestone and is proud to celebrate its 60th "Diamond" Anniversary in 2017! During the last 60 years the agency has grown to include management of Arizona's 32 parks and statewide recreation programs. Arizona State Parks and Trails is hosting events throughout the year to celebrate Arizona and its parks. We will continue to offer events and initiatives that will strengthen communities through economic growth, improved public health, social equity and natural resource conservation. Join one of our signature events including the opening of our new Outdoor Recreation Information Center in Phoenix, Arizona State Parks Day, Mariachi Festival at Patagonia Lake, First Day Hikes at every state park on January 1, 2017, Cave Fest at Kartchner Caverns, and many more throughout the year.

Come out to one of our events and explore the beauty of Arizona's State Parks and Trails. Reserve a campsite amidst mountain backdrops and lakeside views or spend the day at the beach, right here in Arizona. Dogs love Arizona's state parks too! Pack their leash and water bowl for a hike, nature walk or even a full camping adventure. Your campsite

is waiting, the trail is beckoning and an epic Arizona sunset waits to be photographed and shared. Visit AZStateParks.com or call 1-877-MY-PARKS to plan your next adventure!

2.8.3 National Park Service

MISSION - The National Park Service (NPS) preserves unimpaired the natural and cultural resources and values of the National Park System for the enjoyment, education, and inspiration of this and future generations. The Park Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.



WHAT WE DO - Since 1916, NPS has been entrusted to oversee the Nation’s 417 National Park System units which include national parks, historical battlefields, preserves, monuments, and other designations spanning more than 84 million acres in every state and extend into territories including Puerto Rico, Virgin Islands, American Samoa, and Guam. Within Arizona, the National Park Service has responsibility for 25 National Park System units located throughout the state:

- Canyon de Chelly National Monument (managed in cooperation with the Navajo Nation)
- Casa Grande Ruins National Monument (Coolidge, AZ)
- Chiricahua National Monument (Willcox, AZ)
- Coronado National Memorial (Hereford, AZ)
- Fort Bowie National Historic Site (Willcox, AZ)
- Glen Canyon National Recreation Area (Page, AZ)
- Grand Canyon National Park (Grand Canyon, AZ)
- Grand Canyon-Parashant National Monument (Northern AZ)
- Hohokam Pima National Monument (under Tribal ownership on the Gila River Indian Reservation)
- Hubbell Trading Post National Historic Site (Ganado, AZ)
- Juan Bautista de Anza National Historic Trail (AZ, CA)
- Lake Mead National Recreation Area (AZ, NV)
- Montezuma Castle National Monument (Camp Verde, AZ)
- Navajo National Monument (Black Mesa, AZ)
- Old Spanish National Historic Trail (AZ, CA, CO, NV, NM, UT)
- Organ Pipe Cactus National Monument (Ajo, AZ)
- Petrified Forest National Park (Holbrook AZ)
- Pipe Spring National Monument (Fredonia, AZ)
- Saguaro National Park (Tucson, AZ)

- Sunset Crater Volcano National Monument (Flagstaff, AZ)
- Tonto National Monument (Roosevelt, AZ)
- Tumacacori National Historic Park (Tumacacori, AZ)
- Tuzigoot National Monument (Clarkdale, AZ)
- Walnut Canyon National Monument (Flagstaff, AZ)
- Wupatki National Monument (Flagstaff, AZ)

Arizona also boasts one National Heritage area, 45 National Historic Landmarks and 10 National Natural Landmarks.

Through programs like the Federal Historic Preservation Tax Incentives Program and Rivers, Trails and Conservation Assistance program, the National Park Service works with local communities to build trails and playgrounds, return historic buildings to productive use, protect watersheds, recognize and promote local history, and introduce the next generation to stewardship opportunities. To see more of the National Park Service’s impact in Arizona, go to www.nps.gov/arizona

"National parks are the best idea we ever had. Absolutely American, absolutely democratic, they reflect us at our best rather than our worst." – Wallace Stegner

2.8.4 Bureau of Land Management

MISSION - The BLM is responsible for managing the nation's public lands and resources in a combination of ways which best serve the needs of the American people. The BLM balances recreational, commercial, scientific and cultural interests and strives for long-term protection of renewable and nonrenewable resources, including range, timber, minerals, recreation, watershed, fish and wildlife, wilderness and natural, scenic, scientific and cultural values. It is the mission of the BLM to sustain the health, diversity and productivity of the public lands for the use and enjoyment of present and future generations.



WHAT WE DO - BLM Arizona is responsible for administering 12.2 million acres of public lands and another 17.5 million subsurface acres of locatable, leasable, and salable minerals. BLM offices across the state manage many land-use activities to enable important economic benefits, while also sustaining natural and cultural resource values for future generations of Americans. Through meaningful engagement with our diverse partners and stakeholders, BLM Arizona conducts responsible public land stewardship with creativity and innovation.

2.8.5 U.S. Forest Service

MISSION - The mission of the U.S. Forest Service is to sustain the health, diversity, and productivity of the Nation’s forests and grasslands to meet the needs of present and future generations.

WHAT WE DO – The U.S. Forest Service is a multi-faceted agency that manages and protects 154 national forests and 20 grasslands in 43 states and Puerto Rico. Boasting an elite wildland firefighting team and the world’s largest forestry research organization, Forest Service experts provide technical and financial help to state and local government agencies, businesses, private landowners and work government-to-government with tribes to help protect and manage non-federal forest and associated range and watershed lands.



The Forest Service augments their work through partnerships with public and private agencies that help plant trees, improve trails, educate the public, and improve conditions in wildland/urban interfaces and rural areas, and also promotes sustainable forest management and biodiversity conservation internationally.

Arizona lies within U.S. Forest Service Southwestern Region which totals 20.6 million acres. There are six national forests in Arizona totaling 11.25 million acres. The Southwestern Region has a [Sustainable Recreation Strategy](#), which focuses on building strong public engagement and support, community by community.

Table 7. National Forests in Arizona

Apache-Sitgreaves National Forest	2 million acres
Coconino National Forest	1.8 million acres
Coronado National Forest	1.7 million acres
Kaibab National Forest	1.6 million acres
Prescott National Forest	1.25 million acres
Tonto National Forest	2.9 million acres

2.8.6 Arizona State Land Department

MISSION

To manage State Trust lands and resources to enhance value and optimize economic return for the Trust beneficiaries, consistent with sound business management principles, prudent stewardship, and conservation needs supporting socio-economic goals for citizens here today and future generations. To act in the best interest of Trust for the enrichment of the beneficiaries and preserve the long term value of the State’s Trust lands.



WHAT DO WE DO

Arizona has approximately 9.28 million surface acres and 9 million subsurface acres of Trust lands.

Scattered throughout the State, the Trust lands are extremely diverse in character, ranging from Sonoran desert lands, desert grasslands, and riparian areas in the southern half of the state, to the mountains, forests and Colorado Plateau regions of northern Arizona.

State Trust Lands are not public lands, but are instead the subject of a public Trust created to support the education of our children. The Trust accomplishes this mission in a number of ways, including, through its sale and lease of Trust lands for grazing, agriculture, municipal, school site, residential, commercial and open space purposes. Notable open spaces that were once State Trust land include the areas of the Phoenix Mountain Preserves, Squaw Peak, the White Tanks, South Mountain, Papago Park, Buenos Aries National Wildlife Refuge, Catalina State Park and Picacho Peak State Park.

2.8.7 Arizona Game and Fish Department

MISSION

To conserve Arizona’s diverse wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.

WHAT WE DO -

The Arizona Game and Fish Department (AZGFD) is entrusted with managing and conserving more than 800 wildlife species. The Arizona Game and Fish Commission is responsible for establishing policies and rules for the management, preservation, and harvest of Arizona's wildlife.

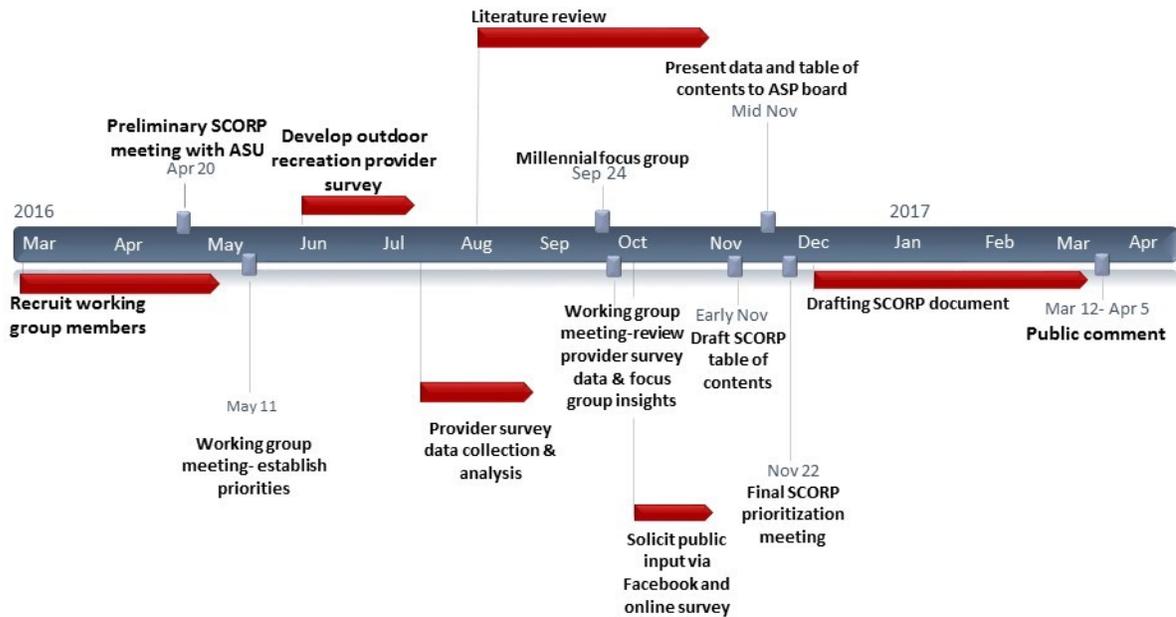


Chapter 3 THEMES AND EMERGING ISSUES

3.1 PLANNING PROCESS

The process used to develop Arizona’s 2018 SCORP included a guidance of the process and generation of statewide issues by a working group, a web-based provider survey, a millennial focus group, trend research, and public input and review.

Figure 21. Timeline of SCORP Development and Planning Process



3.2 METHODOLOGY

3.2.1 Working Group

The Arizona 2018 SCORP was developed under the guidance of an 16-member working group of outdoor recreation, natural resource, and conservation leaders from local, state, and federal governmental agencies, non-profit friend’s groups, and private organizations from around the state. Participants were selected to represent geographical diversity and a

Outdoor Recreation Related Issues and Themes

broad spectrum of perspectives pertaining to outdoor recreation and natural resource management.

The Working Group convened twice between May 2016 and November 2016 and communicated via email to identify, discuss, and prioritize statewide outdoor recreation issues. A subgroup meeting was convened in late November 2016 to set the priority issue for the 2018 SCORP. Working Group members also reviewed the Provider Survey and provided feedback on analysis of the data collected from the Provider Survey and the Focus Group.

3.2.2 Provider Survey and Public Input

A comprehensive questionnaire was developed which included issues highlighted by the Working Group. The questionnaire also included some questions from the 2008 and 2013 SCORP Provider Surveys, in an effort to analyze longitudinal data trends amongst recreation providers in Arizona. Modeled after the 2008 and 2013 methodologies, the questionnaire was administered online, made available to 322 participants, and open for a total of three weeks. With a 54% response rate, recreation providers from around the state weighed in on current outdoor recreation opportunities, issues, concerns and priorities.

Public input was sought utilizing social media and a short survey administered on the Arizona State Parks and Trails website. A series of questions regarding important outdoor recreation issues in Arizona were posted on Arizona State Park's Facebook page and website throughout October, 2016. Responses were gathered, grouped into themes, and analyzed by Arizona State University researchers.

3.3.3 Focus Group

Declining youth engagement in outdoor recreation activities has been a focus of many outdoor recreation organizations, public land management agencies, and health professionals nationwide. Today's youth are spending less time in nature than generations past resulting in negative mental and physical health outcomes and a decreased connection with the natural world (Louv, 2016; Outdoor Recreation Foundation, 2016; Pergams & Zaraci, 2006). In an effort to better understand outdoor recreation barriers, motivations, and preferences of youth, a focus group of millennials was held in September, 2016

Working Group Priority Issues

- Political Engagement
- Preservation
- Engagement
- Education
- Funding
- Access/Diversity
- Science
- Stewardship

Focus Group Themes

- Technologically enabled recreationist
- Information gap between providers and millennials
- Wellbeing benefits – social, physical, mental
- Social media is an important tool

Online Public Input

- Preservation & conservation of resources
- Safety
- Urban green spaces
- Fiscal responsibility
- Access
- Maintenance of facilities & infrastructure
- Stewardship & long term sustainability
- Environmental ethics, education, and early exposure
- Communication & Marketing

composed of 13 individuals between 18-25 years of age. Data was collected and analyzed by ASU researchers.

3.3.4 Public Comment

The draft SCORP was available for public comment from March 12, 2017 to April 5, 2017. The document was downloadable from ASPT website and hardcopies were made available upon request.

The final 2018 SCORP will be presented to the Arizona Outdoor Recreation Coordinating Commission in 2017 for its adoption and recommendation to the Arizona State Parks and Trails Board.

3.3 EMERGENT THEMES

Each state's plan must identify outdoor recreation issues of statewide importance based upon, but not limited to, input from the public participation program. ASPT and ASU worked to collect data utilizing varying methods as described above in order to determine the primary issues of outdoor recreation in Arizona. The issues of primary importance from each method of data collection were analyzed and grouped into four pillars of recreation based on the National Recreation and Parks Association's proposed organizational schema; conservation, social equity, individual and community wellness, and optimizing system vitality. The four pillars are discussed in more detail within Chapters 4 and 5.

In addition to Arizona's four pillars of outdoor recreation, three additional important themes emerged from the data which should be considered. These included the use of technology and outdoor recreation, youth participation in outdoor recreation, and connectivity of the social and ecological systems which are embedded within all of the outdoor recreation issues identified for the 2018 SCORP.

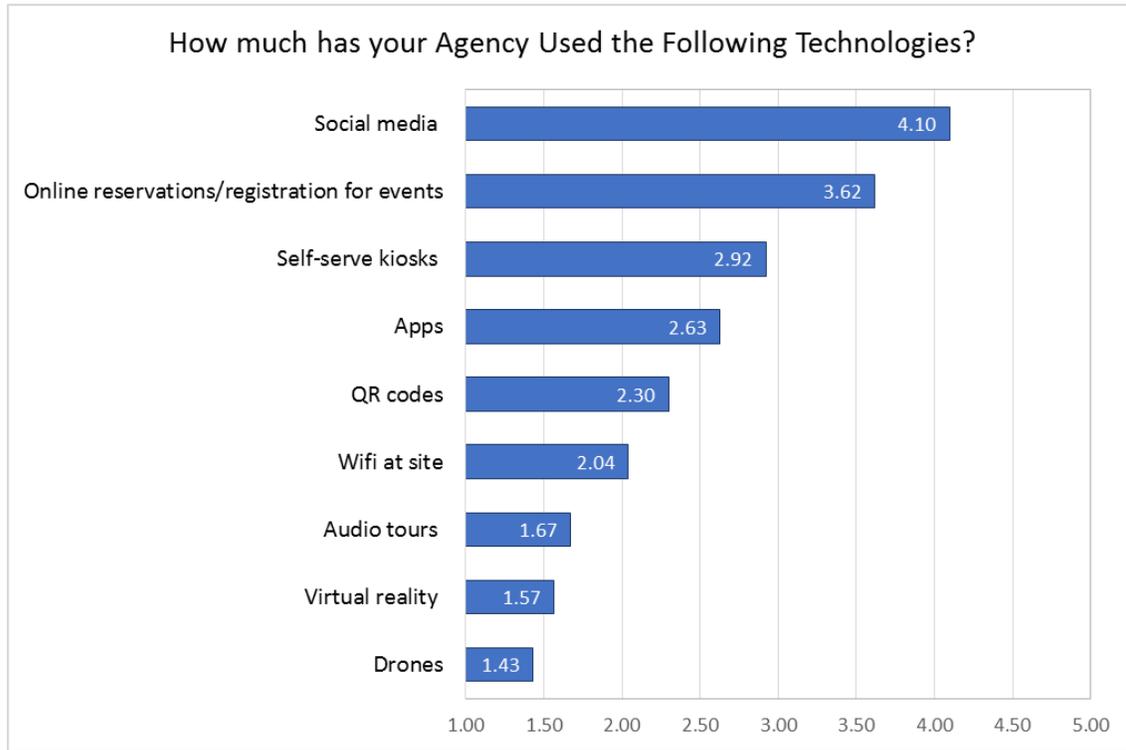


3.3.1 Technology

The use and integration of technology within the outdoor recreation industry is not a new topic. To better understand what types of technology providers often used, we asked outdoor recreation providers how much their agency or organization had utilized certain technologies. Most respondents reporting having used social media and an online reservation system and very few providers utilized audio tours, virtual reality, or drones (Figure 22).

Survey Question: How much has your agency used the following technologies in the last 5 years to engage constituents, market your services and provide outdoor recreation opportunities from (1) Never to (5) Always?

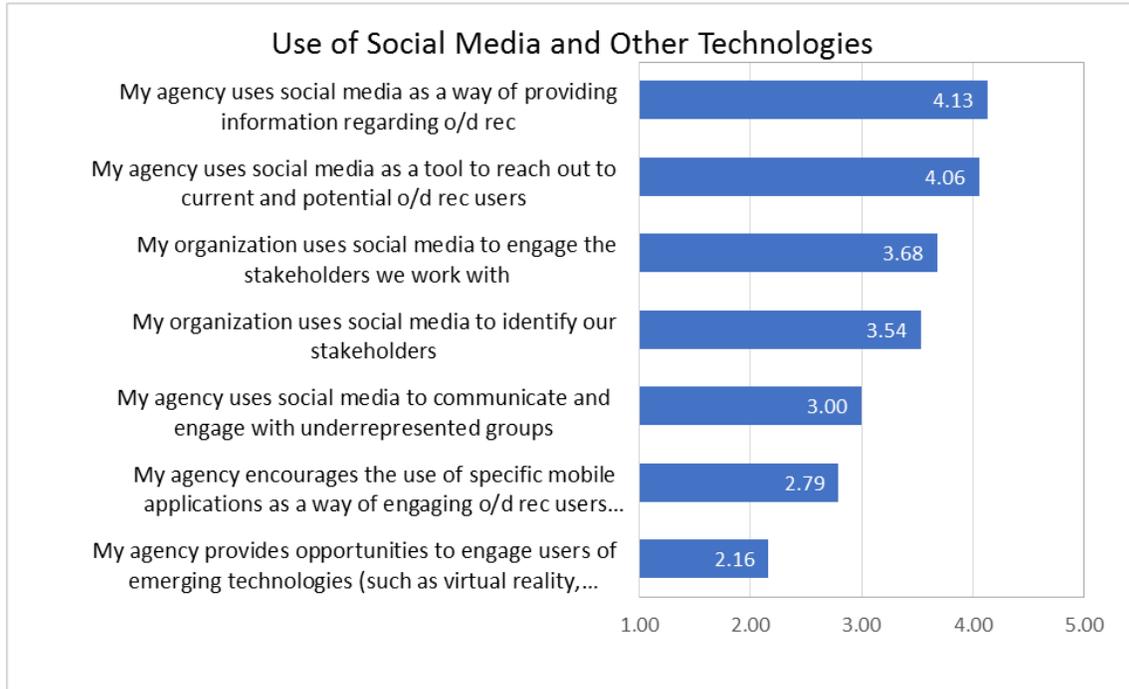
Figure 22. Agency Use of Technologies



Providers were also asked to specify what they used social media and other technologies for. Most reported utilizing social media to provide information to, identify, and engage stakeholders and constituents while fewer agencies and organizations reported using mobile applications and emerging technologies as means of engagement (Figure 23).

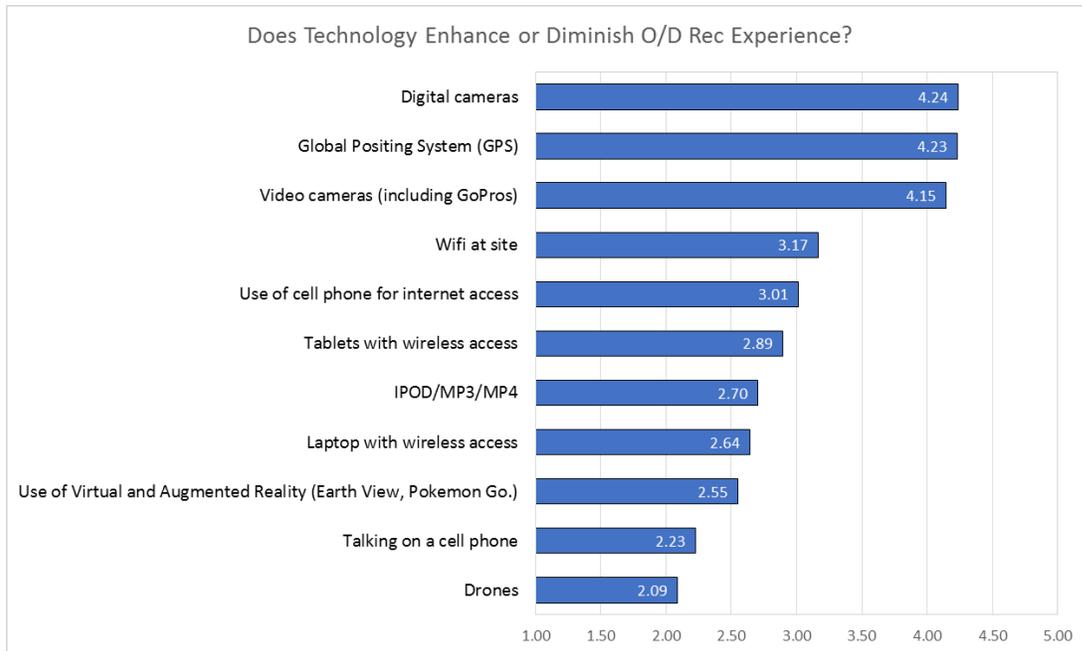
Survey Question: Social media (Facebook, Twitter, and Instagram) and other technologies have influenced every aspect of our personal and professional lives, including our jobs of managing parks and open space. The following question is designed to identify how each of the technologies below are used by your agency to provide outdoor recreation opportunities. How would you rate your agreement with the following statements on a scale from (1) Never to (5) Always?

Figure 23. Agency Use of Social Media and other Technologies



Survey Question: Technology is an important part of outdoor recreation. Some technologies may enhance outdoor experiences, while others may diminish them. Please indicate which technologies enhance and which diminish the outdoor experiences your agency provides from (1) Diminish to (3) Neutral to (5) Enhance.

Figure 24. Does Technology Enhance or Diminish the Outdoor Experience?



Providers and users alike often contemplate whether the use of technology hinders or improves the outdoor recreation experience. Outdoor recreation survey respondents reported that digital cameras, Global Positioning Systems (GPS), video cameras including GoPro’s, availability of wifi at the site, and utilizing a cell phone for Internet access enhanced the outdoor recreation experience for users (Figure 24). This was also consistent with responses within the focus group, where participants reported utilizing their phones for taking pictures, listening to music, and using online maps to enhance their experiences. Alternatively, providers reported that the use of drones, talking on a cell phone, use of virtual reality and tablets to access wifi, and listening to music actually diminished the outdoor experience to some degree. Although we did not ask this same question directly during the public online input period, several comments submitted referenced the need for increased and improved digitized trail maps, recreation specific mobile applications, and electronic fee-stations.

3.3.2 Today’s Youth

Another overarching theme which plays a role in all of the priority issues centered on today’s younger generations. Questions ranged from how best to engage youth in outdoor recreation, what their recreation preferences were, and how to market to the younger demographic. Nationwide, youth participation in outdoor recreation is declining overall with “just hanging out or playing outside” and engaging in physical activities including biking, walking, jogging, skateboarding having the highest participation rate (Cordell, 2012).

This should be particularly worrisome considering the 2014 United States Report Card on Physical Activity for Children and Youth reports that children and youth (6-15) in the U.S. do not meet the minimum standards of 60 minutes a day of moderate-to-vigorous physical activity. The report also found that sedentary behavior amongst American children and youth is very high and physical activity levels are low (Dentro et al, 2014).

The underserving of youth, particularly with physical and health related opportunities amongst our state’s recreation providers is an issue that needs to be addressed within Arizona. As informed from our research and the literature, early exposure to nature can have a lasting impact on one’s lifelong propensity to recreate outdoors.

We asked the providers, the public, and group of individuals ranging in age from 18-25 specific questions related to today’s youth.

“What do you think about the future of recreation for today's youth?”

“If we don't show them how to get out and enjoy it now, they'll see no reason to protect it in the future.”

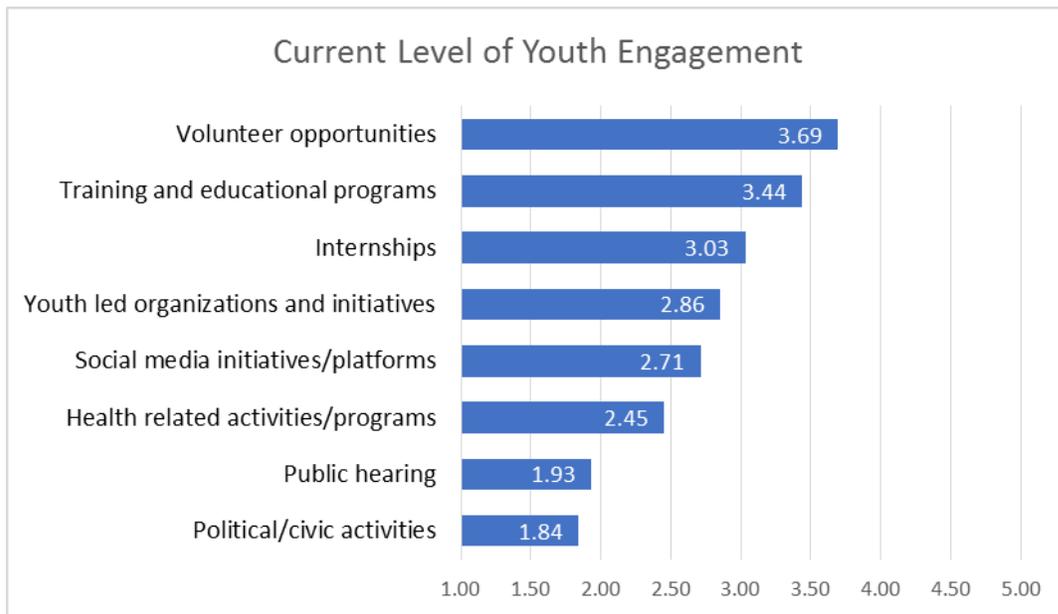
“Outdoor recreation is essential for today's kids to de-stress and have them connect with the real world, away from their electronics. Also getting them out walking and hiking will give them exercise since there is less physical education and recess in schools now.”

“I hope that the next generation will keep watch over these special places and protect them. From the beautiful mountains to the Grand Canyon to the mighty lakes and wondrous forests.”

Providers were asked to rate the current level of youth engagement in each of the activities within their respective agencies or organizations, from not at all (1) to always (5). Figure 25 shows that many agencies had volunteer, training, and educational opportunities for youth; however, few organizations engaged youth in civic activities, public hearings, or even health related programs and activities.

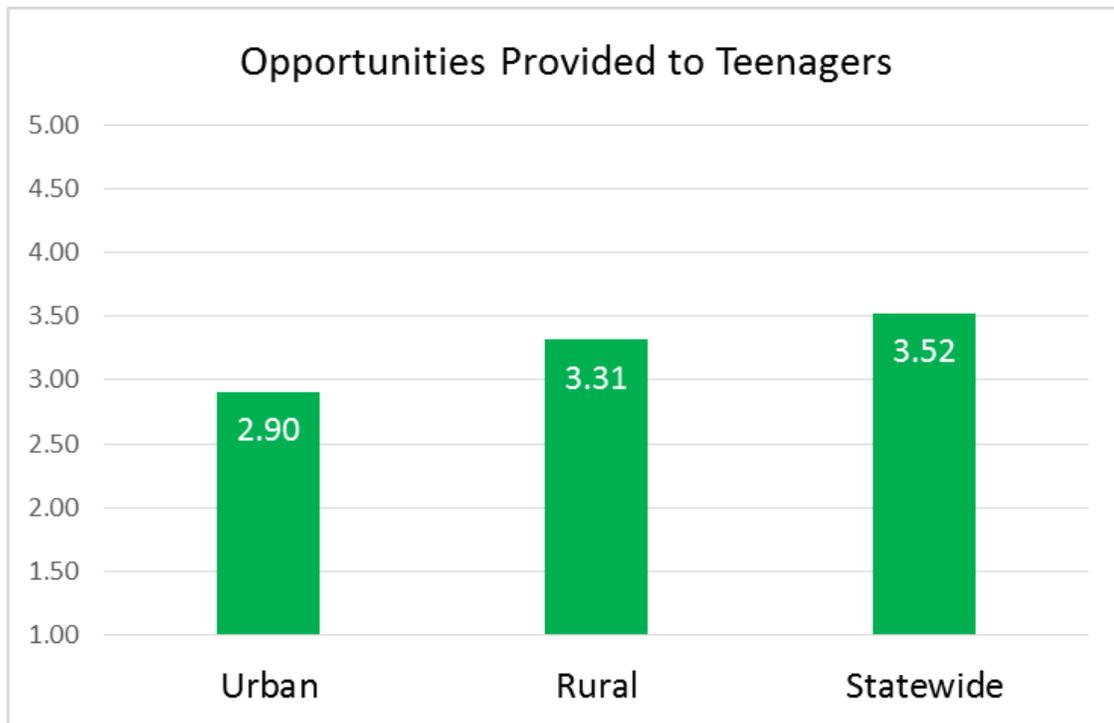
Survey Question: Youth participation is vital for effective programs and young people are important stakeholders in decisions regarding future use of natural resources. Below is a list of activities that youth can participate in, on behalf of agencies. Please rate the current level of youth engagement in each of these activities in your agency from (1) Not at all to (5) Always.

Figure 25. Current Level of Youth Engagement



Providers were also asked to rate the extent to which their agency currently provides opportunities for teenagers from (1) Not at all to (5) Very much. Although the responses show room for improvement by providing more opportunities for teenagers across the state, opportunities provided by urban providers are significantly lower ($p < .05$ level) than rural and statewide providers (Figure 26).

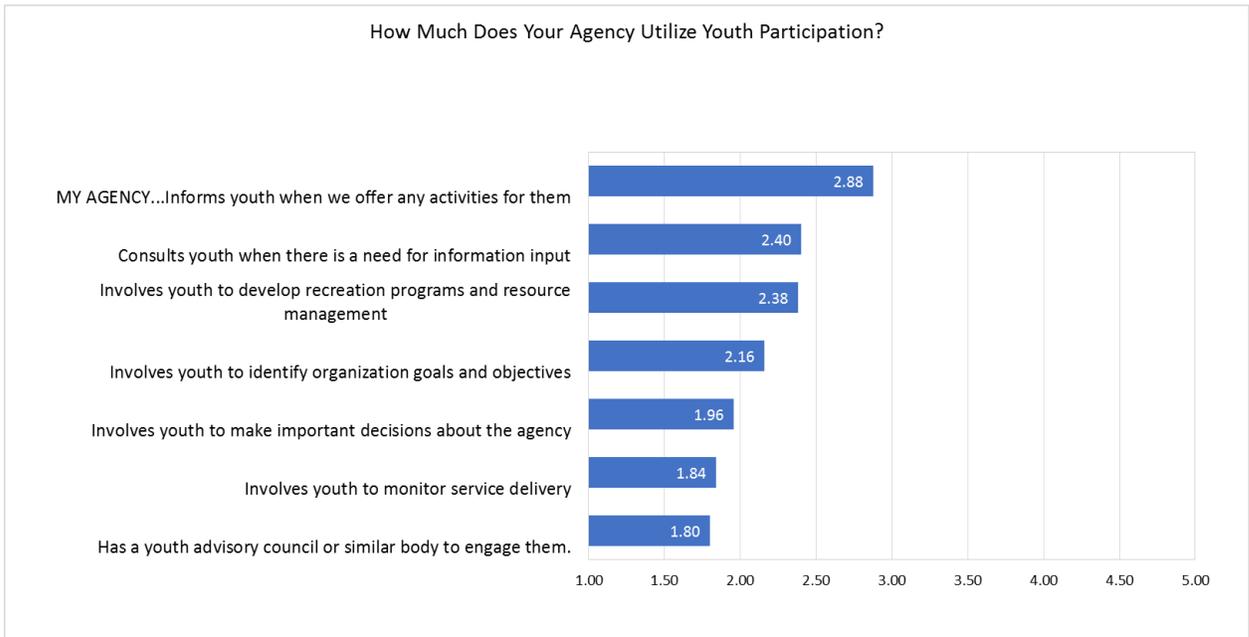
Figure 26. Opportunities Provided to Teenagers



Recreation providers were then asked how much their agency utilized youth participation and feedback in each of the following areas from (1) Not at all to (5) Always. As Figure 27 shows, all responses were below 3 indicating that youth participation and disengagement is a real issue in Arizona’s outdoor recreation future which needs to be addressed to successfully cultivate the next generation of outdoor recreation enthusiasts.

Survey Question: How much does your agency utilize youth participation and feedback in each of the following areas from (1) Not at all to (5) Always?

Figure 27. How Much Does Your Agency Utilize Youth Participation?



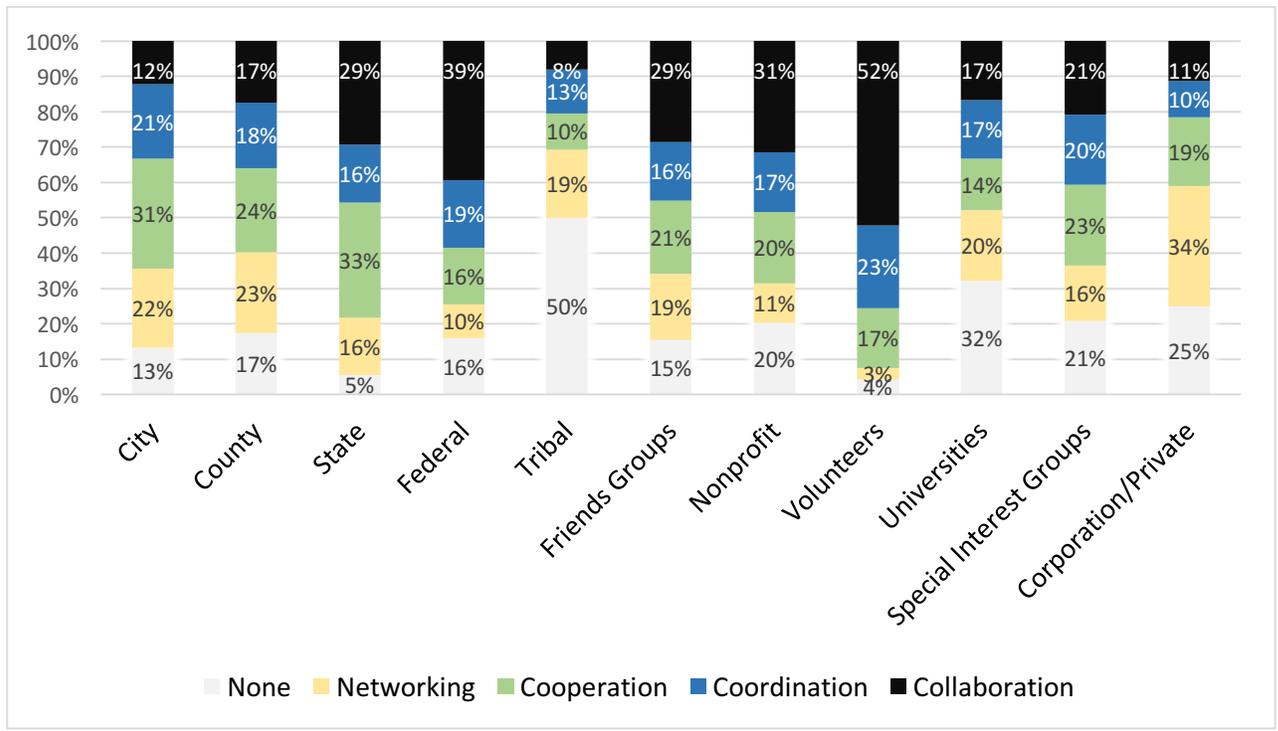
3.3.3 Connectivity

From creating physical connections between the state’s vast network of water trails, hiking, and horseback riding trails to encouraging neighboring communities to connect through shared economic, educational, and marketing opportunities, the concept of connectivity was prevalent throughout Arizona’s 2018 SCORP planning process. Arizona’s outdoor recreation provider agencies and organizations rely heavily on partnerships, collaboration, and networking to provide world class opportunities to the state’s residents and visitors year around. These linkages should be enhanced to create greater efficiencies, focused messaging, and alignment of strategies as they pertain to maintaining and improving recreation activities and opportunities across the state.

Recreation providers were asked to provide information on the current extent of their collaboration with various types of organizations, and what types of collaboration they most frequently engaged with each type of organization. More specifically, Figure 28 shows five different levels of collaboration indicating the level of interdependence from none, networking, cooperation, coordination, and collaboration among 11 types of organizations. For example, 52% of outdoor recreation provider reported collaboration with volunteers, while 23% coordinate with volunteers, 17% cooperate with volunteers, 3% network, and 4% had no working relationship. The next highest reported collaboration was with federal agencies (39%), followed by non-profit groups (31%), state agencies (29%) and friends groups (29%). The figure shows that the respondents had the lowest level of collaboration with tribal agencies, as 50% respondents did not have any working relationship with tribal agencies.

Five Different Levels of Collaboration
None – no working relationship
Networking – establish dialogue and common understanding
Cooperation – match needs and coordinate efforts to avoid duplicating services
Coordination – share or merge resources to address common issues or to create something new
Collaboration – build an interdependent system to accomplish shared

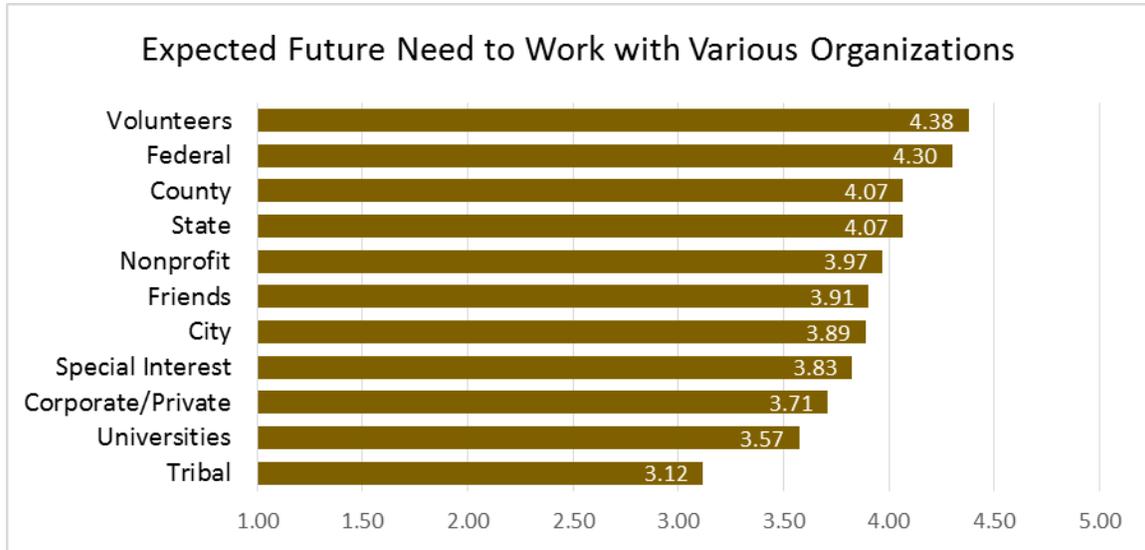
Figure 28. Collaboration Level with Various Agencies



Recreation providers were then asked to rate their expected future need to work with various organizations from (1) low need to (5) high need. Volunteers, Federal, County,

State, and Nonprofit organizations are the most anticipated future partner entities as seen in Figure 29.

Figure 29. Expected Future Need to Work with Various Organizations



Chapter 4 THE FOUR PILLARS OF RECREATION



4.1 CONSERVATION

Our research shows that conserving the state’s public lands, conservation areas, and parks for current and future generations is of the utmost importance. Working group members, recreation providers, and focus group participants identified several issues of statewide importance which have been grouped under the conservation pillar of recreation in Arizona. Furthermore, Arizona residents identified protecting Arizona’s natural environment, water supplies, and open spaces as top priorities in the Gallop Arizona Poll beginning in 2009 (Center for the Future of Arizona, 2015). Population growth, the expanding urban/rural interface, and a diversifying population are increasing the need for outdoor recreation spaces and natural and cultural resources to be protected, maintained, and accessible. These areas include open space, forests, deserts, wetlands, unique ecosystems, and endemic species of our state.

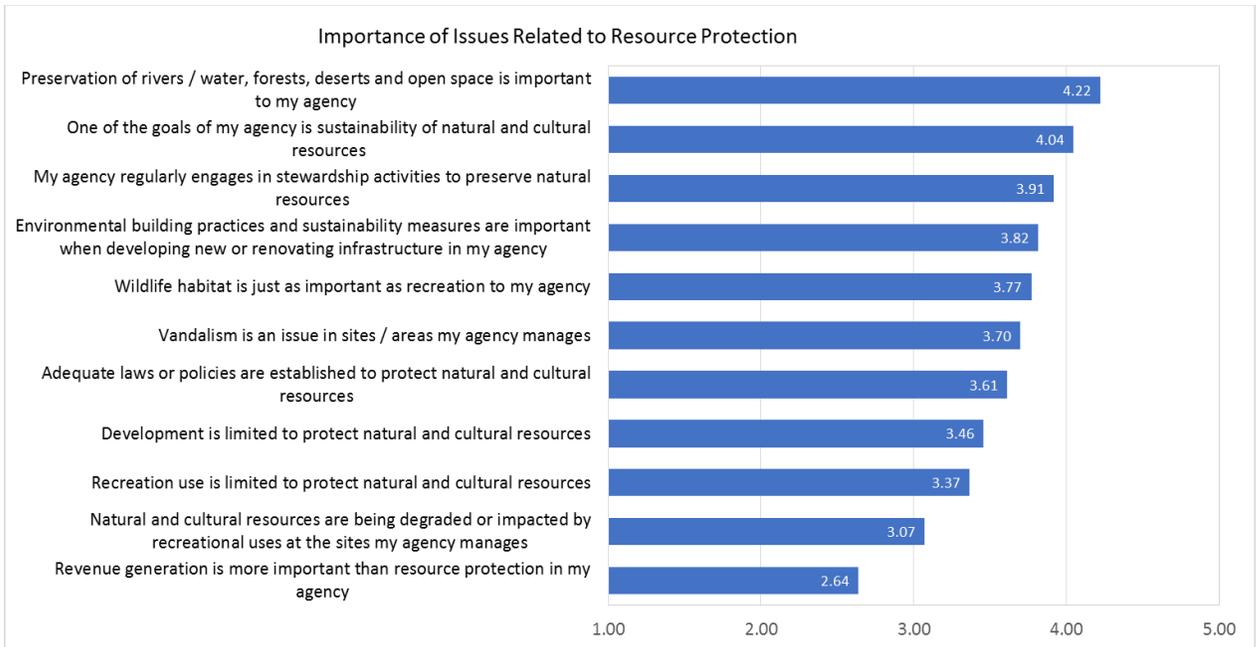
4.1.1 Benefits of Parks and Protected Areas

Taking a broad view of the benefits of open space, research shows various types of benefits, including personal, social, environmental, and economic, of parks and protected areas. Individual, social and economic benefits are discussed in more depth under the next three pillars. Parks and open space provide many environmental benefits and ecosystem services such as filtration of pollutants from soil and water, buffering of air pollutants, moderation of climatic changes, conservation of soil and water, pollination of food crops and other plants, and preservation of genetic diversity (Nyaupane, 2011). Parks and protected areas also provide habitat for hundreds of wildlife species in Arizona including rare and endangered species such as the Mexican wolf and jaguar as well as popular game species important for hunting and recreational wildlife viewing. Arizona's iconic landscapes also support a large tourism and outdoor recreation industry benefiting local communities economically. Furthermore, open space contributes to a broader environmental protection effort by educating people about the environment and creating awareness.

4.1.2 Data

Recreation providers were asked a series of questions related to natural resource management to understand how agencies and organizations prioritized issues of preservation, conservation, stewardship, accessibility, and sustainability in Arizona. Providers were asked to rate the importance of several natural resource related issues and priorities from their agency's perspective, from (1) Strongly disagree to (5) Strongly agree. The statements with the highest rankings demonstrate the importance of preserving the state's rivers/water, forests, deserts, and open space, long term stewardship and sustainability of resources, as well as utilizing sustainability measures and environmentally friendly building practices for new development and renovations (Figure 30).

Figure 30. Importance of Issues Related to Resource Protection



“What do you think are the most important issues in outdoor recreation in Arizona?”

“I love Arizona and having a safe, clean area to hike and explore is important. Arizona is truly beautiful and offers many different types of geography to experience. Each of us need to respect this and protect it as we enjoy it!”

“I think one very important area of concern is awareness of what amazing resources are available through our parks services and keeping them available for future generations!”

“Stewardship of our parks, natural and cultural resources. Maintenance. Stop the deferred maintenance to balance budgets.”

Arizona State Parks and Trails asked online participants on Facebook as well as the ASPT website to weigh in on what they considered to be the most important issues in outdoor recreation in Arizona receiving 658 “likes”, 89 “shares” and 100 comments on Facebook with an additional 51 responses on the ASPT website. Preservation, conservation, stewardship, sustainability, green spaces, environmental ethics, and access were prominent themes heard from the public related to conservation.



4.1.3 National Wetlands Priority Conservation Plan

Arizona’s Wetland Priorities

Wetlands are transitional lands between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands must meet at least one of the following:

- At least periodically the land supports predominately hydrophytes
- The substrates are predominately undrained hydric soil
- The substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year.

All wetland types found in Arizona are scarce because the state’s wetlands have been naturally decreasing in area and abundance in the last 140 years. Therefore, all wetland types are considered eligible for acquisition or other protection under the LWCF program. The 1986 Emergency Wetlands Resources Act (Public Law 99-645, S. 303) requires states to address wetlands protection in their five-year SCORP documents. The SCORP wetlands component must

- Be consistent with the National Wetlands Priority Conservation Plan developed by the U.S. Fish & Wildlife Service
- Be based on consultation with the state’s fish and game management and wetlands protection agency(ies)

- Include a description of priority wetlands planning and funding under the Land and Water Conservation program

Wetlands acquisition priorities listed in this plan represent no change from those appearing in the 1988, 1994, 2003, 2008 and 2013 SCORP Wetland Addendums. These priorities are based on NPS and [the National Wetlands Priority Conservation Plan \(NWPCP\) guidelines](#). Acquisition priorities for general wetland types in Arizona were also determined by consultation with the U.S. Fish and Wildlife Services and the Arizona Game and Fish Department in relation to the nation’s priority listings in the NWPCP (Table 8).

Priority consideration will be given to the following (all weighted equally):

1. Wetland types least protected by regulation or preservation (public or private).
2. Wetland types that have been destroyed, altered or degraded within the state.
3. Regions within the state with the least number of wetlands protected by regulation or preservation (public or private).
4. Wetland sites subject to identifiable threat of loss or degradation.
5. Wetland sites with diverse functions and values and/or high or special values for specific wetlands.
6. Wetland sites that are contiguous to protected areas of public land, provide corridors, or enhance the functions and values of adjacent wetlands.

Table 8. Priority Wetland Types

	NWPCP	Arizona
Decreasing	Palustrine emergent	Palustrine emergent
	Palustrine forested	Palustrine forested
		Upper Riparian
		Lower Riparian
	Palustrine scrub/shrub	Palustrine scrub/shrub
		Upper Riparian
		Lower Riparian
	Estuarine intertidal emergent	*Palustrine open water
	Estuarine intertidal forested	*Lacustrine
	Estuarine intertidal scrub/shrub	Riverine
	Marine intertidal	
Stable	Estuarine intertidal non-vegetated	
	Estuarine subtidal	
	Lacustrine	
Increasing	Palustrine open water	
	Palustrine unconsolidated shore	
	Palustrine non-vegetated	
*Naturally occurring wetland types		

Types of Wetlands in Arizona

According to a 2012 Arizona Department of Environmental Quality (ADEQ) report, the lacustrine, palustrine, and riverine systems were evenly distributed throughout the state (<https://www.fws.gov/wetlands/Data/SupMapInf/R02Y12P04.pdf>). Each type represents roughly a third of the total wetlands acreage of the state. Riverine wetlands were slightly more prominent representing 36% of wetlands statewide (Table 9).

Table 9. Arizona Prominent Wetland Systems

Type of Wetlands	Total (Square Miles)
Lacustrine	272.79
Palustrine	289.05
Riverine	315.72
Grand Total	877.57

Benefits of Wetlands

Wetlands have long been recognized as critical to a clean, properly functioning environment and to ecosystem health. They provide a protective buffer for our towns and cities against floods and storm surges. Ecological benefits include contributions to water quality, life-sustaining habitat to hundreds of species, and aquatic and terrestrial ecosystem connections. In addition, the nation’s wetlands provide economic, ecological and cultural benefits and enable societies to continue to function and thrive.

Beyond protection of existing wetlands, wetland acreage can be increased by creating new wetlands or by restoring former wetlands lost to drainage. In many cases, the necessary soils and seed stock still exist, and wetlands flourish once more as soon as the hydrology is restored. Agencies can restore wetlands by modifying the physical, chemical, or biological characteristics of a wetland site.

Benefits of Partnerships for Wetland Protection

More than 85% of wetlands are located on privately-held land. Therefore, the effectiveness of federal efforts to improve the health, quality and use of the nation’s wetlands will be greatly enhanced by expanding public-private partnerships. The array of public-private partnerships that have developed over recent years has strengthened the stewardship efforts at the federal level.

Federal wetland projects often involve partnerships of state and local governments and nongovernmental and private organizations seeking to acquire wetland habitat. These acquisitions may be incorporated into the FWS National Wildlife Refuge System or into a state’s protected area system, or they may be included in holdings protected by a nonprofit conservation organization (e.g., The Nature Conservancy).

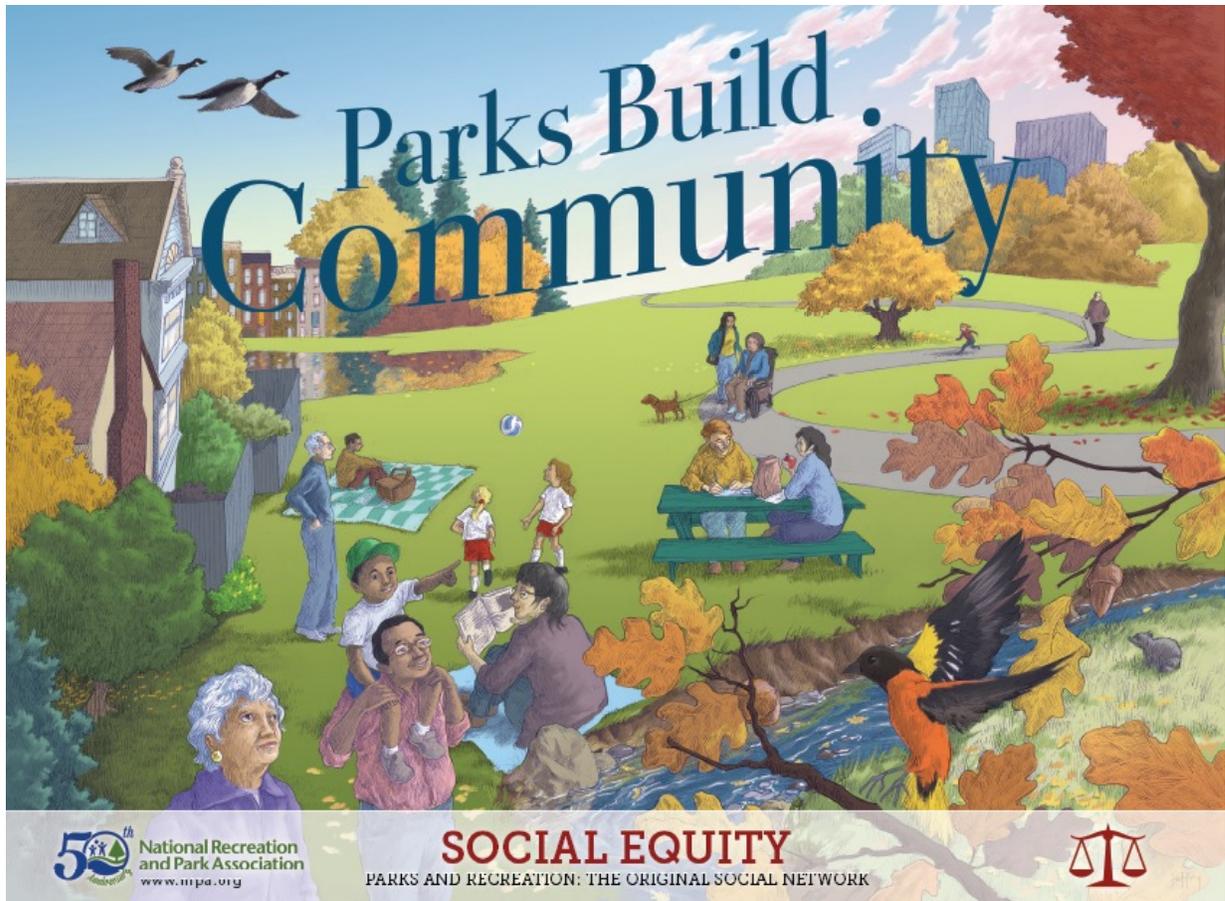
For instance, the Wetlands Reserve Easement Program, a voluntary, federal program through the Natural Resource Conservation Service, voluntarily protect, restore and enhance critical wetlands on private and tribal agricultural land nationwide. Another example of a wetland conservation partnership is the Environmental Protection Agency’s (EPA’s) Wetland Program Development grant program. In 2014, the San Carlos Apache

tribe were awarded nearly \$89,000 to continue development of a Wetland Program Plan, do baseline monitoring of wetlands, and develop compensatory mitigation tools. In 2012, Prescott College was awarded nearly \$150,000 to provide sub-grants for education programs for secondary schools, non-profits, etc to teach about protecting Arizona's waters, including wetlands and riparian habitats.

Wetland Protection Activities and Next Steps

In 2012 the ADEQ reported that Arizona had inventoried less than half of the state's wetlands. Today, all Arizona's wetlands have been fully inventoried on a database found on the [USFWS website](#). The ADEQ continues to map Arizona wetlands as a resource for protecting them. ADEQ's future work includes:

1. Digital mapping of tribal areas
2. Ground truth during growing season
3. Further develop wetland program with goals of restoration, education, and protection of critical wetland resources.



4.2 SOCIAL EQUITY

Social equity and ensuring equal access to parks and public spaces for everyone in the community is foundational to building and fostering healthy communities (NRPA, 2016). Several priority issues identified by the 2018 SCORP Working Group fell underneath the umbrella of social equity, including accessibility and inclusion and engagement while other priority issues can be effectively addressed through the lens of social equity, including education opportunities, and partnerships and collaborations. Arizona's population is growing and diversifying culturally, ethnically, economically, and demographically. Providing outdoor recreation opportunities to all people regardless their race, ethnicity, age, income level, or ability has been a core principle of Arizona State Parks and Trails and should be a critical responsibility of all outdoor recreation providers.

4.2.1 Benefits

The social benefits of providing outdoor recreation opportunities and access to open space, parks and protected areas are numerous. Arizona's state parks have been shown to enhance community health and economic viability, individual health and wellness including overall quality of life, and promote community connections (ASPT, 2015). Furthermore, research has shown that close access to parks and open space can lead to increased physical activity in children and adults, reducing the likelihood of obesity and other health related illnesses, saving significant associated healthcare costs (Trust for Public Land, 2009). In several U.S. cities, the benefits of improving access to parks

The benefits of social equity and universal access to public parks and recreation are many, including:

- Public enjoyment and engagement. Where parks and open space are plentiful and recreation services strong, residents enjoy the closest attachment and engagement within their communities; and studies indicate higher levels of local gross domestic product and economic well-being;
- Quality recreation time with family and friends. Parks and recreation services provide a space and a reason to enjoy quality time, relaxation, and fun among family members and friends, thus strengthening the social and familial bonds that provide balance and satisfaction in life;
- Improvement of mental and physical health. Parks and recreation can reduce the impacts of chronic diseases, especially in such vulnerable populations as children, seniors, and the underserved; and
- Measurable decreases in rates of crime and other detrimental activities. Communities are safer as a result of a wholesome atmosphere created by well-managed parks and recreation services in communities through healthy activities and programming for all people.

(Source: National Recreation and Park Association NRPA.org)

included reduced crime rates (City of Los Angeles, 2011; Kansas City Parks and Recreation Department, 2009), increased sense of community attachment, and increased economic benefits (Trust for Public Land, 2009).

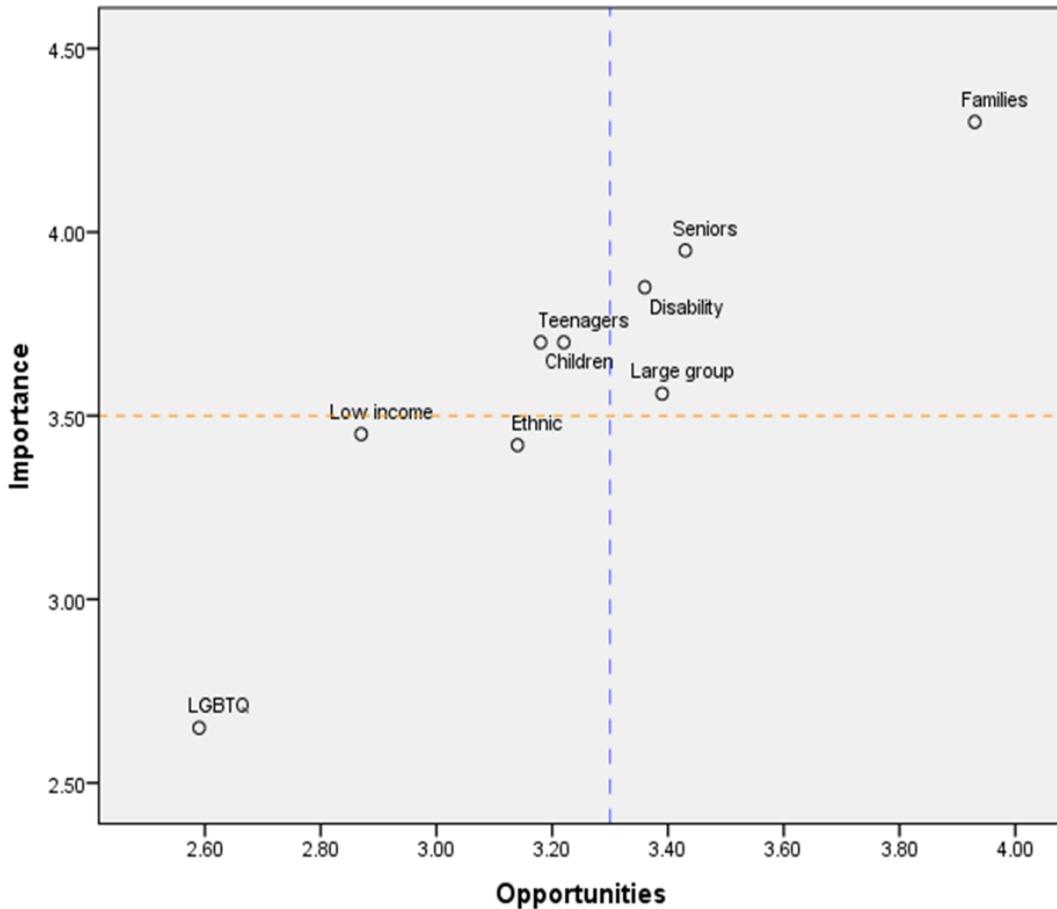
4.2.2 Data

Social equity was a primary issue as identified by the SCORP Working Group citing the need for equal access and inclusivity to outdoor recreation opportunities for all community members. This does not necessarily mean that all providers can be all things to all community members; however, it does mean that recreation providers collectively need to assess how well served the entire community is. Working Group members acknowledged that a better understanding of the recreation needs, barriers, and preferences of all community members was needed before specific social equity issues could be identified and addressed. Therefore, it is our recommendation that new projects should assess and address the needs of the communities which they intend to serve.

Arizona's outdoor recreation providers were asked to rate the extent to which their agency provides opportunities for or met the needs of ethnically diverse groups, Lesbian, Gay, Bisexual, Transgendered and Queer (LGBTQ) individuals and communities, low income users, visitors with disabilities, children and youth, teenagers, large groups, families, and seniors from (1) Not at all to (5) Very much. They were then asked to rate how important provision of these opportunities or meeting the needs of these groups was to their agency from (1) Not at all to (5) Very much (Figure 32). Results (Figure 31) show that families, seniors, those with disabilities, and large groups (top right quadrant) were determined to be important to serve as well as where providers reported the most

opportunities (above mid-range on the scale for both variables). The top left quadrant represents groups of high importance to serve; however, there were less opportunities available for these groups consisting of children and teenagers specifically. The bottom left quadrant shows the groups that are considered to be underserved by providers due to the low amount of opportunities serving low income, ethnic and the LGBTQ communities. Although most of these groups were deemed important (score at or just below 3.5 on a scale of 5 on importance) there were less opportunities available by Arizona providers. Based on the providers survey, although the LGBTQ communities were placed at low importance (just over 2.5), they were the most underserved groups. The lack of opportunities directly provided to low income, ethnically diverse, and LGBTQ communities by outdoor recreation providers presents an opportunity for future collaboration with partners, friend’s groups, and other agencies to fill this gap. Please note that the scale on the graph is truncated in order to show relatively small differences in detail.

Figure 31. Importance vs. Opportunities Provided to Diverse Groups



Finally rural providers report providing relatively more opportunities for most groups, except seniors. For large groups, the mean response is the same between rural and urban providers (Figure 33).

Figure 32. Importance Vs. Opportunities Provided to Diverse Groups

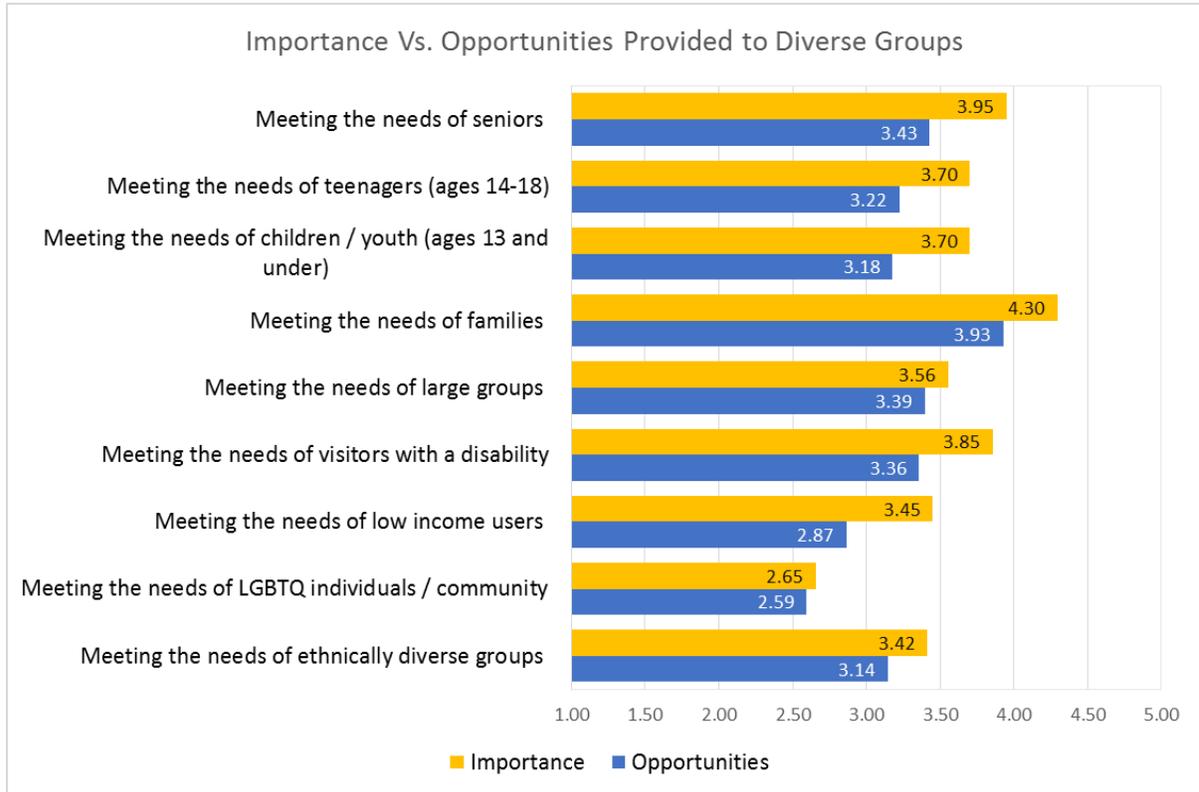
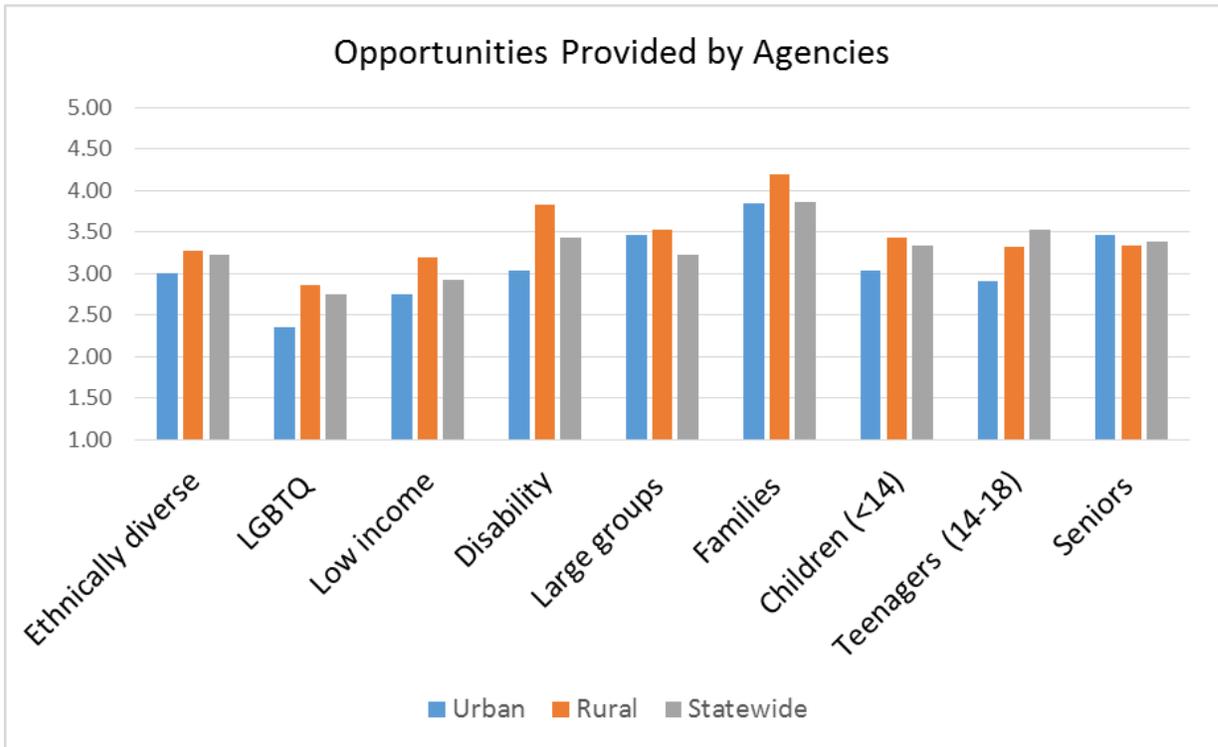


Figure 33. Opportunities Provided by Agencies



4.3 INDIVIDUAL AND COMMUNITY WELLNESS

Research continually points to the benefits of outdoor recreation on human health and well-being. Due in part to the increased rise in adult and childhood obesity rates due to inactivity, empirical studies conducted over the past 10 years have assessed the health benefits of outdoor recreation with evidence strongly demonstrating positive mental and physical benefits of outdoor recreation. Public parks and outdoor recreation activities also positively benefit local communities whose wellness can be assessed in economic terms.

4.3.1 Benefits

Centers for Disease Control and Prevention (CDC) report, backed by many empirical research, shows that residents who have access to parks and open space (e.g., biking and walking trails) consequently enjoy better mental and physical health. Parks and open space also enhance the quality of life of residents and visitors. Parks and open space make neighborhoods more livable; offer recreation opportunities for at-risk youth, low-income children, and families; and create a sense of community (Sherer, 2003). Research also demonstrates that access to parks and open space has been linked to reductions in crime, including juvenile delinquency (Sherer, 2003). Parks and open space, which also function as soundscapes in urban areas, play a vital role in noise absorption resulting in better acoustic comfort.

Parks and open space plays a vital role in economic vitality of communities. Nature-based recreation and tourism activities, which take place in national parks, protected rivers, scenic lands, wildlife habitats, and recreational open space, account for between 10-20% of the \$5.8 trillion U.S. tourism industry (World Travel and Tourism Council [WTTC], 2010). Parks and open space support a \$1.25 trillion tourism industry in the United States (Office of Travel and Tourism Industries [OTTI], 2010). The presence of open space also affects the value of adjacent lands, termed “enhancement value.” Developers also realize that providing open space within residential developments is increasingly important. Cities have also used their urban open space to revitalize inner cities by organizing public events such as concerts and public fairs that help bring people to the cities and increase retail sales, which also have “benefit chain of casualty” as one type of benefit can lead to other subsequent benefits (see Nyaupane, 2011).

4.3.2 Data

Recreation providers were asked to rate their agreement with the statement “My agency provides economic opportunities in the surrounding areas” on a scale of (1) Strongly disagree to (5) Strongly agree. Interestingly, approximately one-third of providers neither agreed nor disagree with the statement, while more than one-half of providers agreed (Figure 34). Providers of statewide recreation and non-profits had lower mean scores on this question when compared to federal, and local providers (Figure 35).

In contrast, 74% of visitors to Arizona State Parks in FY14 agreed that local economies depend upon State Parks and only 22% neither agreed nor disagreed. It is interesting that a greater percentage of visitors to statewide recreation facilities recognized the economic benefits of recreation areas, whereas providers themselves may not be as aware of these benefits.

Figure 34. Perception of Economic Opportunities Provided in Surrounding Areas

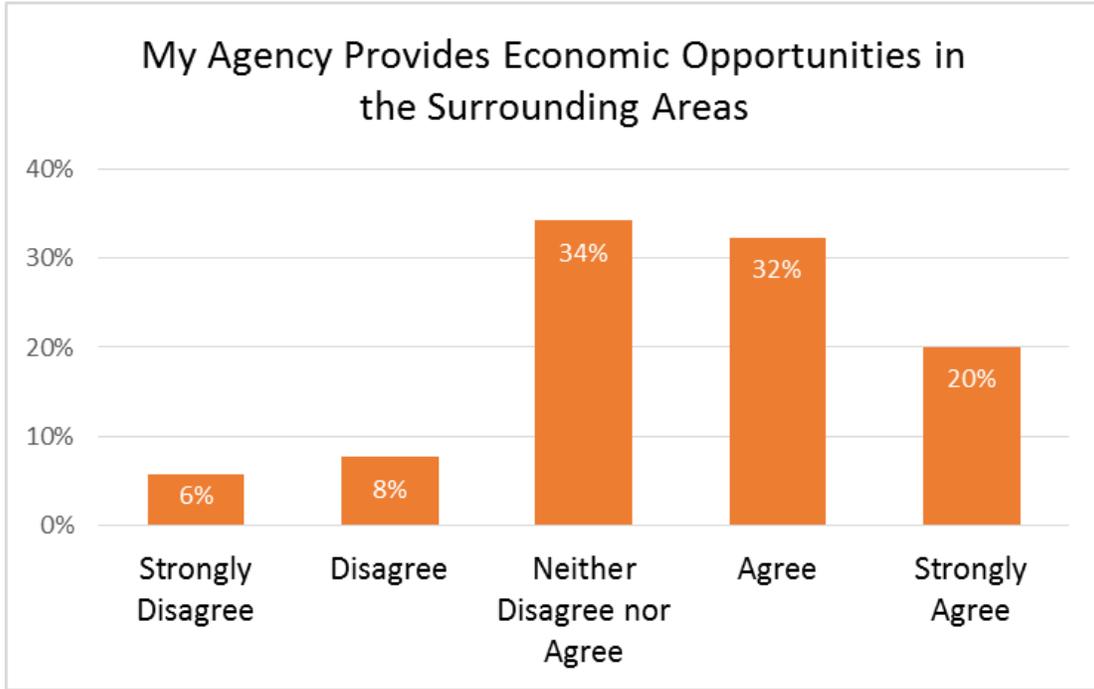
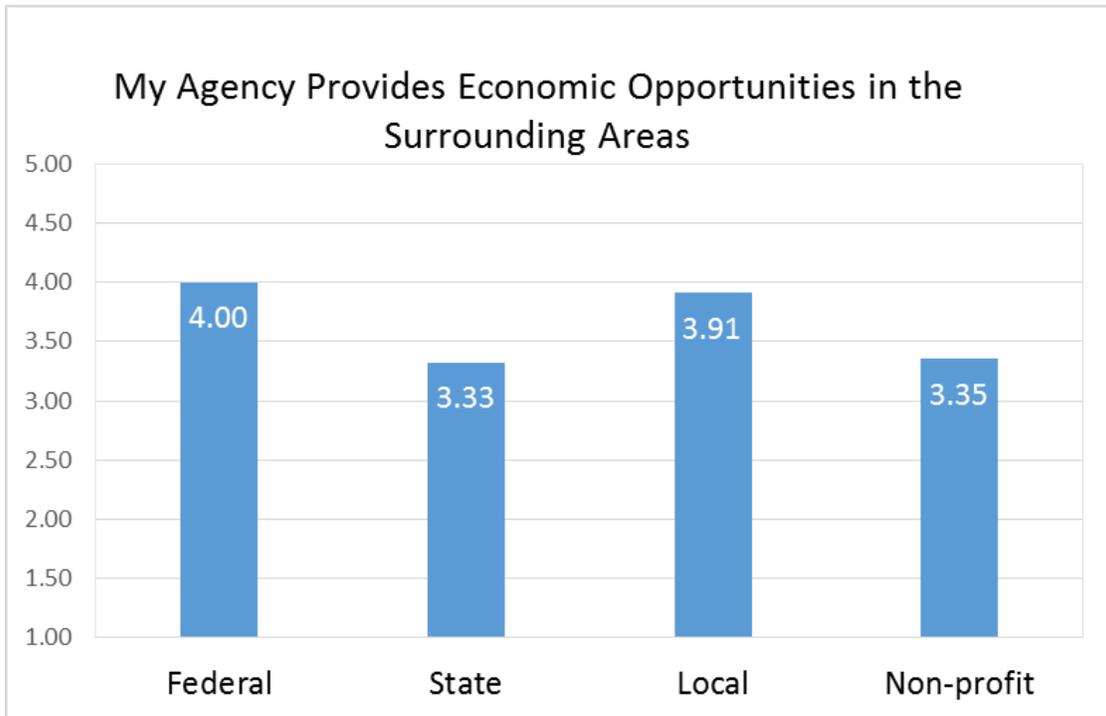


Figure 35. Perception of Economic Opportunities Provided in Surrounding Areas: Breakdown of Agency Providers



4.4 OPTIMIZING CAPACITY AND VITALITY

As traditional sources of funding and budgets shrink, public land managing agencies are being challenged to identify non-traditional, alternative funding sources. However, in addition to funding, agencies are increasingly being tasked with increasing the strategic and responsible investment made with existing resources in order to responsibly manage maintenance and growth. More agencies are using business tools to assess return on investment of resource allocation, and also using processes to identify waste and inefficiencies in processes and improve or eliminate waste to improve the customer experience.

4.4.1 Funding and Economic Impacts

Recreation providers were asked to estimate the percentage of how much funding their agency receives from each of the following sources. Nearly one-quarter of providers stated that they receive funding from the federal government and two-out of ten receive funding from donations (Figure 36). More than one out of ten respondents also receive funding through grants. Figure 37 shows the source of funding breakdown by agency providers. For example, the figure show 41% of nonprofit providers funding comes from donations.

Figure 36. Source of Funding

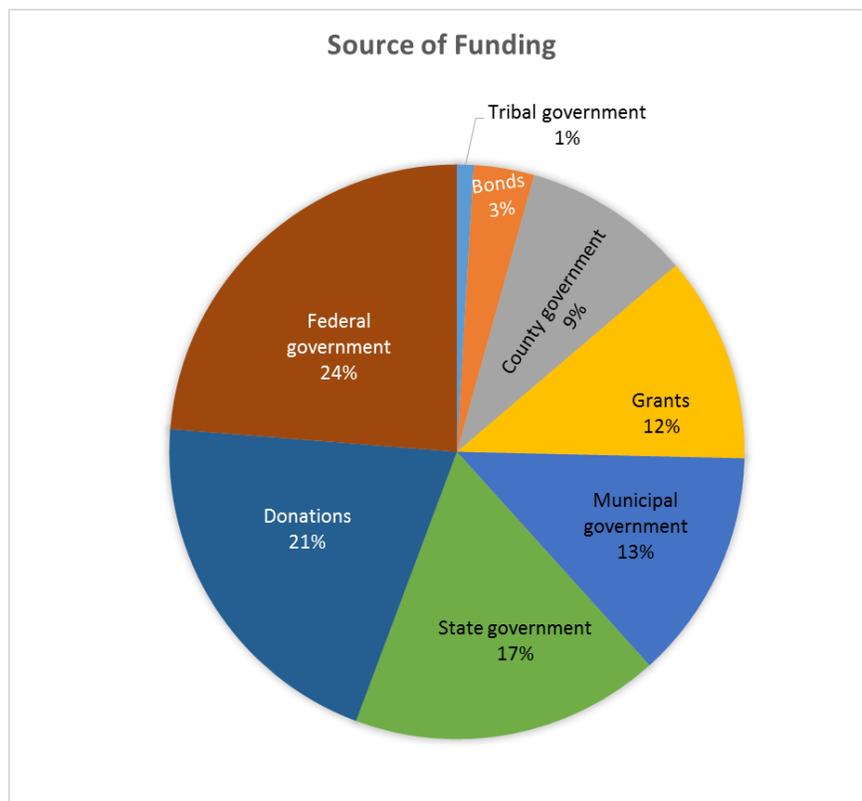


Figure 37. Source of Funding: Breakdown by Agency Providers

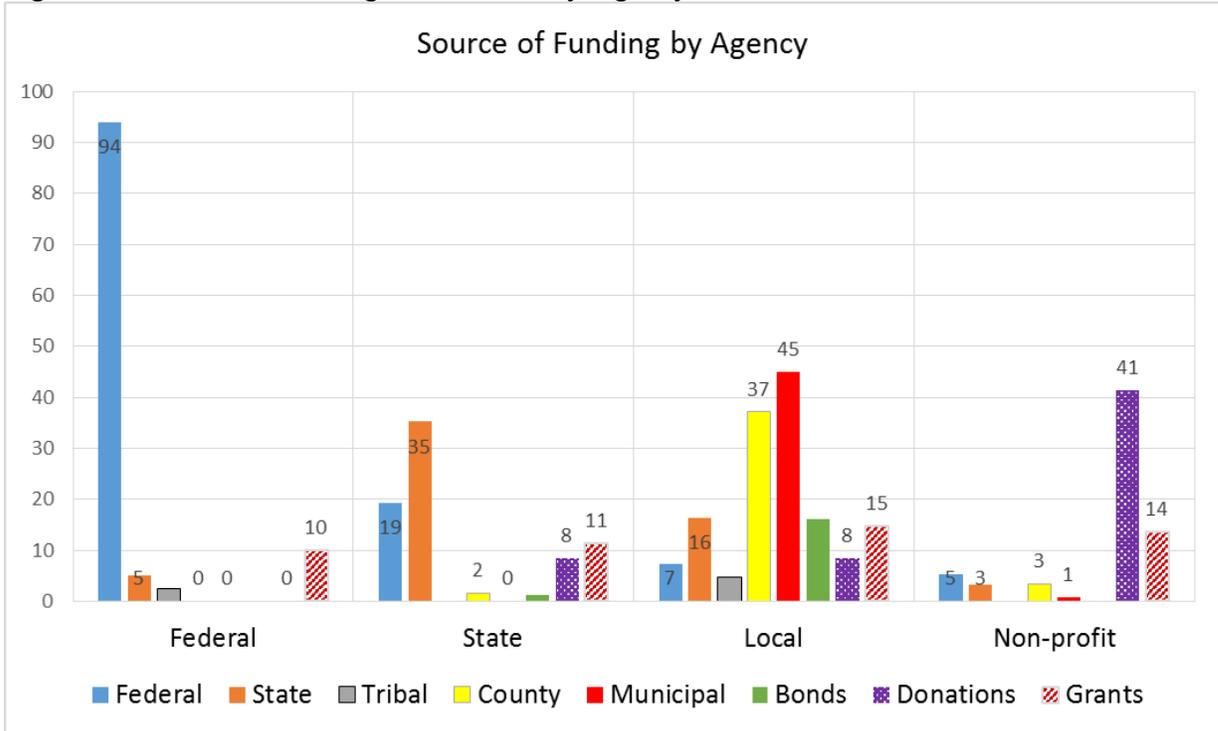
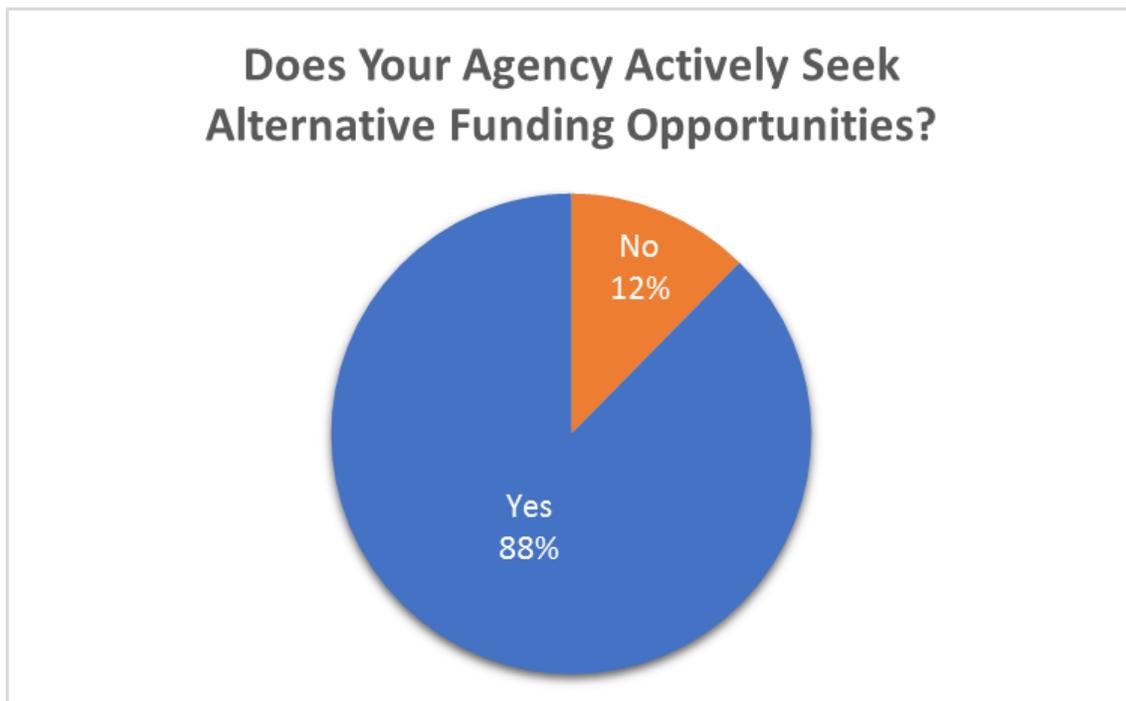


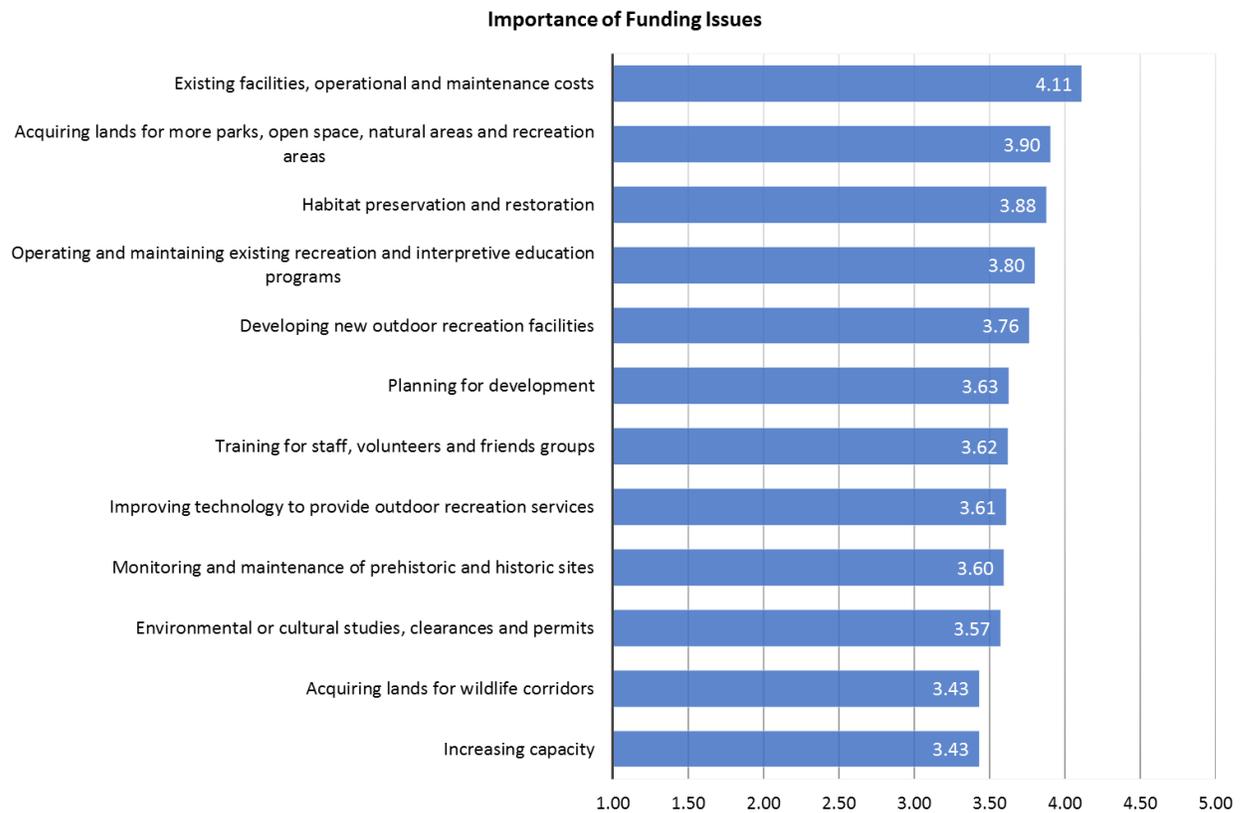
Figure 38. Alternative Funding Opportunities



Almost nine out of ten respondents indicated that their agency seeks alternative funding opportunities (Figure 38), which could be grants, partnerships, and other non-traditional funding methods.

On a scale of 1-Not important to 5-Very important, providers were asked to rate funding issues (Figure 39). Consistent with other statewide plans (see Trails Plan 2015), mean scores indicate that funding existing facilities, operations and maintenance, recreation and interpretive programs and habitat preservation and restoration is important to providers. However, also important is funding the acquisition of new parks and open space and developing new facilities.

Figure 39. Importance of Funding Issues



4.4.2 Partnerships and Collaboration

SCORP working group members emphasized that the path forward for recreation and conservation agencies must include creative partnerships and collaboration. In addition to traditional or existing partnerships, the group recommended more of these resource leveraging relationships in the areas of marketing, advocacy, and resource management. While accomplishing tasks through partnerships takes a significant time commitment to build, strengthen and maintain relationships, the benefit is that works gets done, by

qualified individuals in innovative ways. One example of a partnership that supports park development is a relationship between Arizona State Parks and Trails, Lake Havasu City and Komick Enterprises. This \$350 million development will include Havasu Riviera SP and neighboring residential and recreational facilities.

Figure 40 shows that Provider Agencies collaborate with Federal Agencies primarily on co-management (27%), funding and grants (23%), and resource monitoring (21%). Collaborations with State Agencies occurs primarily for funding and grants (29%) (Figure 41). The data shows opportunities to increase partnerships and collaborations beyond funding and grants in areas such as volunteering, training and educational workshops, and data sharing.

Figure 40. Agencies' Collaboration with Federal Agencies

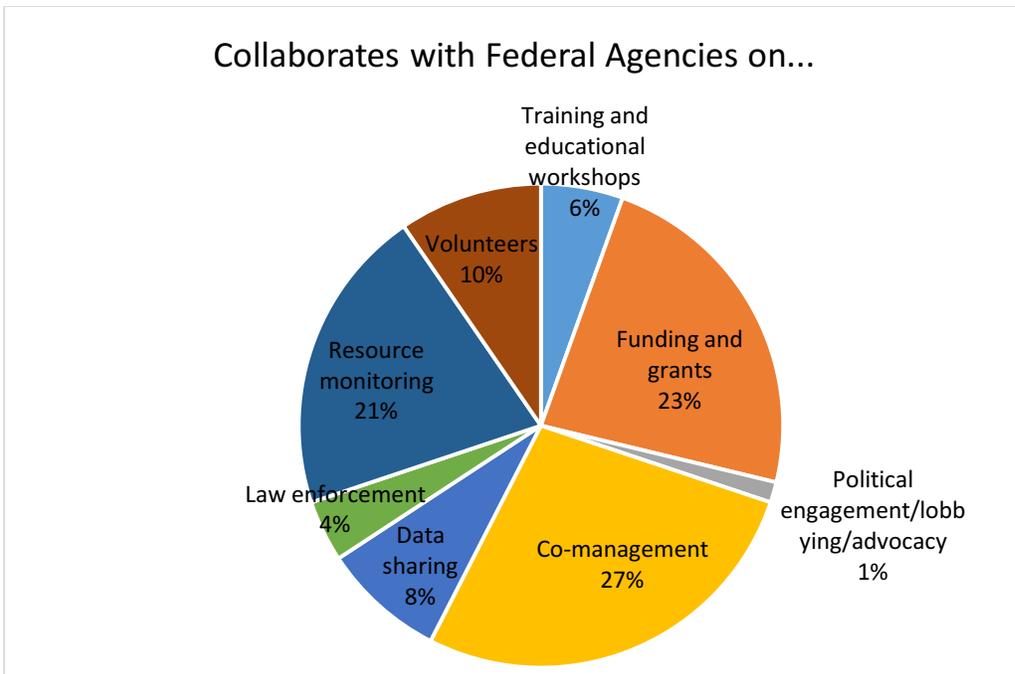
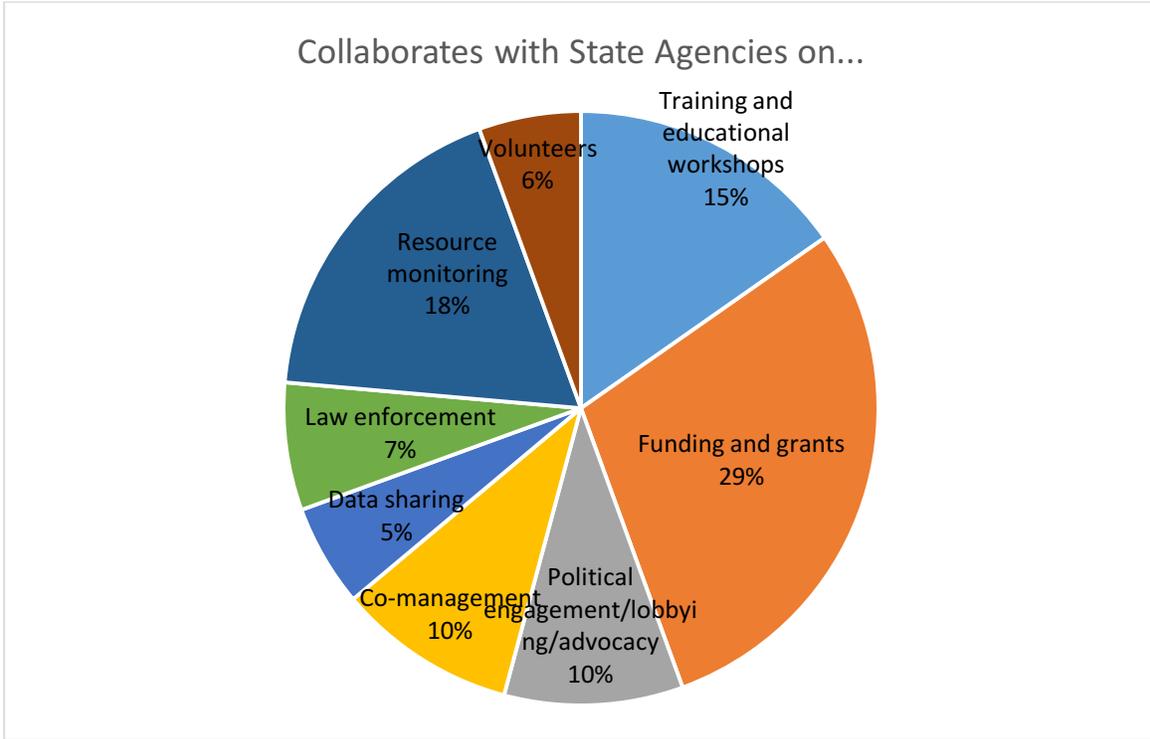


Figure 41. Agencies Collaboration with State Agencies



4.4.3 Grant Programs

Arizona State Parks and Trails Grants

More than \$4 million is available annually to Arizona communities, resource managers and agencies to preserve and enhance Arizona’s significant natural open space, and recreational resources. Arizona State Parks is responsible for administering Land and Water Conservation Fund and other federal and state programs such as the Growing Smarter Program, state Off-Highway Vehicle Recreation Fund Program, and federal Recreational Trails Program (RTP).

The administration of these grants includes the development of application guidelines and grant rating systems informed by public and provider input, the execution of project agreements, and the subsequent monitoring of compliance.

To assist with this responsibility, the Grants staff works with the following advisory committees:

- Arizona Outdoor Recreation Coordinating Commission (AORCC)
- Off-Highway Vehicle Advisory Group (OHVAG)
- Arizona State Commission on Trails (ASCOT)

These three advisory committees consist of non-motorized trail users and land managers, motorized recreation users, and outdoor recreation professionals and users. These groups review and provide feedback on projects and recommend funding.

The purpose of the **Growing Smarter State Trust Land Acquisition Grant Program** was to fund grants to conserve open spaces in or near urban areas and other areas experiencing high growth pressures. Between 2001 and 2014, a total of \$231,131,181 was awarded in Growing Smarter grants. These monies have benefited urbanites beloved areas such as Tortolita Mountain in Pima County, Flagstaff's Observatory Mesa and the signature McDowell Mountains in Phoenix.

Recreational Trails Program

In 2016 alone, the RTP funded 21 trail related projects totaling \$1,684,560. The RTP provides federal funds to the States to develop and maintain recreational trails, trail-related facilities and education for motorized, non-motorized and diverse uses. The program provides funds for all kinds of recreational trail uses, such as pedestrian uses (hiking, running, wheelchair use), bicycling, in-line skating, equestrian use, cross-country skiing, snow-mobiling, off-road motorcycling, all-terrain vehicle riding, four-wheel driving, or using other off-road motorized vehicles.

Non-Motorized Recreation

From 2007 to 2015, there has been 61 non-motorized projects. An example of a non-motorized project that has received funds is Sophie's Flat located in the scenic Sonoran Desert five miles' northeast of Wickenburg. Easy access to nearby communities makes this a popular spot each year for thousands of equestrians, hikers and mountain bikers.

The BLM, Wickenburg Conservation Foundation and community volunteers work together to maintain and improve the trails. An RTP grant funded major trail repairs after a season of torrential rains.

This grant was vital to keep the 15-mile trail a main contributor to Wickenburg's recreational economic base. The trailhead offers a restroom, interpretive kiosk and ample parking for horse trailers and vehicles. Maps are available and trails are well marked. The trailhead also serves as an open classroom for nature-based family and student programs such as interpretive hikes, desert survival, astronomy, geocaching and more. Education programs are hosted and funded by the Wickenburg Outdoor Education Partnership and grants.

Motorized Recreation

Motorized recreation in Arizona receives support from federal RTP as well as the State Off-Highway Recreation (OHV) Recreation Fund. The OHV Recreation Fund provides a set percentage (0.55%) of license taxes on motor vehicle fuel from the Highway User Revenue Fund for OHV management. In 2009, new OHV legislation was enacted to provide additional funds to support law enforcement and facility development. This legislation created an indica (sticker) for vehicles weighing under 1800 pounds and designed primarily for travel over unimproved terrain. The OHV sticker is distributed through the Department of Motor Vehicles and the \$25 cost is added to the OHV

Recreation Fund. State Parks receives 60% of the money in the Fund for projects. Approximately \$1.5 million is available annually through Arizona State Parks for OHV projects. From 2007 to 2015, almost \$12 million were awarded to 119 different projects that help fund rehabilitation for over miles of trails, development of new trailhead facilities, promotion of safety education, law enforcement support, and financial aid for trail planning for future trails (Table 10).

Table 10. ASPT Awarded Competitive Grants from FY2007-2015

Arizona State Parks and Trails Awarded Competitive Grants from FY2007-2015		
Grant Program	Number of Grants	Grant Dollars Awarded
Land and Water Conservation Fund (LWCF)	18	\$3,538,646
Off-Highway Vehicle (OHV)	83	\$6,066,006
Recreational Trails Program; Non-motorized	61	\$3,733,498
Recreational Trails Program; Motorized	36	\$5,747,889
Recreational Trails Program; Diverse*	28	\$1,660,202

*Diverse indicates that the grant could be used for a project with both motorized and non-motorized trail uses.

Partner Agency Grants

Arizona Game & Fish

Heritage Fund Grants

Heritage Fund money comes from Arizona Lottery ticket sales and was established by voter initiative in 1990. Heritage funding goes toward conservation efforts such as protecting endangered species, educating students and the general public about wildlife and the outdoors, and creating new opportunities for outdoor recreation.

The Heritage Fund Grant Program was established by the Arizona Game and Fish Department in 1992 as part of the overall Heritage Fund program. Since inception, the department has had the opportunity to award more than \$14 million through the Heritage Fund grants program and support more than 700 projects throughout the state.

<https://www.azgfd.com/Wildlife/HeritageFund/grantapply>

Local Sportsmen's Group Grant Program

The purpose of the Local Sportsmen's Group grant program is to help local sportsmen's groups fund projects that promote wildlife conservation through hunter, angler, shooter and trapper recruitment and retention. The program awards grant funds to eligible projects through a competitive application process each year.

“The Local Sportsmen’s Group grant program is an investment in local organizations that, day in and day out, are teaching people how to be safe, ethical and responsible hunter-angler conservationists,” Burt said. “Additionally, our focus is on ‘retaining’ participants, not just developing awareness and one-time experiences by applying the Adoption Sequence to this grant program and our existing Outdoors Skills Network.”
http://www.azgfd.gov/index.php/local_sportsmens.shtml

Many other federal organizations offer grant opportunities for which Arizona cities, towns, etc. are eligible, including the following:

The Outdoor Foundation

The Outdoor Foundation's Corporate Philanthropy Programs allow brands and businesses to create consumer-facing giving campaigns that align with business goals while increasing outdoor recreation and spurring community engagement.

<http://www.outdoorfoundation.org/philanthropy.about.html>

Cabela’s Outdoor Fund

Our goal is to ensure future generations can enjoy the activities of hunting, fishing, camping and recreational shooting. Efforts that focus on the recruitment, retention and re-activation of hunters, anglers, campers and recreational shooters are priority. Funding for the program comes from customers who decide to “round up” at our stores to contribute to the Cabela’s Outdoor Fund.

<http://www.cabelas.com/category/Outdoor-Fund/112097880.uts>

Greenfield’s Outdoor Fitness: Go Greenfields Grants

The purpose of this program is to provide parks nationwide with an opportunity to provide their communities with fitness opportunities that virtually anyone can use for free at any time. Projects should coincide with the funding agency's mission to provide accessible fitness opportunities to youth, underserved communities, the elderly, and individuals with disabilities. The funding agency aims to support communities as they strive to build a better quality of life for their citizens

<http://www.playgroundprofessionals.com/news/fund-raising/go-greenfields-grant-outdoor-fitness-equipment108>

Other grant opportunities are available at the National Parks and Recreation Association website:

<http://www.nrpa.org/our-work/Grant-Fundraising-Resources/>

Chapter 5 PRIORITIES

5.1 PRESERVATION AND CONSERVATION

Protection of Arizona’s natural and cultural resources, public lands, recreation areas, and scenic landscapes are increasingly necessary. Human activities, including population growth and urbanization increase the demand for recreation areas and place more pressure on resources. Additionally, naturally occurring events exacerbated by human activities, such as wildfire, flooding, erosion, and the spread of invasive species, increase the need for long term stewardship of resources. Funding for ongoing maintenance and operation of existing facilities is often scarce and sufficient fiscal resources need to be dedicated to the backlog of projects in Arizona. Furthermore, conservation strategies and partnerships as well as stewardship standards need to adopt accepted best practices and utilize the best available science.

Types of project that could be funded under this category:

- Acquiring property to preserve natural and cultural resources, open space, wetlands, and recreational opportunities in critical habitat, high growth areas and conservation priority areas
- Mitigation projects that are effected by natural disasters, overuse, or vandalism
- Upgrading current recreational facilities using resource conservation technology (i.e. alternative energy, water saving techniques, recycling, etc.)
- Developing or renovating facilities and trails to make them more sustainable
- Funding studies to determine carrying capacity of current recreational facilities
- EXAMPLES: Upgrading outdated electrical lighting, campground shower facilities using water saving devices, rainwater collection methods, providing native shade trees to outdoor recreation facilities, redefine trail routes to minimize grade to prevent erosion,

5.2 ACCESSIBILITY AND INCLUSION

Arizona’s growing population is changing, becoming older, younger, and more diverse ethnically and culturally. These demographic trends may require changes in how outdoor recreation opportunities are provided and what facilities are necessary to meet the changing needs. Providers need to ensure that they have enough opportunities for children, teenagers, seniors, and culturally diverse user groups. Further research needs to be completed to better understand the needs, barriers, and preferences of Arizona’s population as it pertains to outdoor recreation. Public input of current users as well as potential users will help identify these needs for future planning efforts, resource

allocation, and project development. Collaboration in research and planning efforts may reduce financial and staff burden and benefit multiple outdoor recreation providers.

Types of project that could be funded under this category:

- Projects that increase accessibility to recreational facilities in underserved communities.
- Projects that provide signage/printed material in multiple language or format related to recreational facilities
- Projects and/or studies that seek to understand the needs, barriers, and preferences of the community which they serve.
- Projects that upgrade existing recreational facilities to accessible standards
- EXAMPLES: ADA paths, buildings, bathrooms, signs, campsites, picnic areas, swimming pools, parking areas, braille documents, large print trail maps, brochures, etc.

5.3 ENGAGEMENT

One of the most important issues to emerge from the Working Group, Focus Group, and Providers Survey was the need for increased public engagement to support and advocate for the protection and sustainable management of our state's unique outdoor recreation resources. Communities, individuals, and especially youth need to be proactively engaged politically and socially to ensure that the resources and opportunities provided to the public are adequately funded, maintained, and improved upon to meet their needs. In the wake of ongoing budget cuts, land management agencies and outdoor recreation providers currently engage volunteers to manage an ever-growing backlog of maintenance projects, collect data and other forms of citizen science, and lead educational initiatives. However, these efforts only capture a small amount of the full engagement potential. The Outdoor Recreation Providers' survey indicated that there are limited engagement opportunities for youth beyond volunteerism and education. Organizations and agencies need to seek innovative means of engagement for members of their communities, particularly youth, in planning processes, recreation development, and experiential learning opportunities to foster a sense of ownership and stewardship for the recreation resources.

Types of project that could be funded under this category:

- Projects that are innovative and effectively engage youth and underserved groups within the community
- Projects that include and engage underserved groups including low income, ethnic diverse, and/or LGBTQ and community members throughout the planning, development, and long-term stewardship process.
- Projects that involve education/training for youth as it relates to outdoor recreation facilities whether it be going to the schools or having the schools come to these areas
- Projects that provide recreational opportunities for youth
- EXAMPLES: Leave no Trace training, interpretive programs for school age groups, OHV safety program for youth, playgrounds, splash pads, training program for volunteers at recreational facilities.

5.4 COLLABORATION AND PARTNERSHIPS

Arizona's recreation lands are managed by a patchwork of federal and state agencies, tribes, non-profit organization, communities, and land owners which often creates confusion amongst users, missed opportunities, and inefficient use of resources. Users often are unaware of or unable to differentiate between land management agencies, determining which passes are required for recreation, and observing appropriate regulations and restrictions on varying landscapes. Increased collaboration and partnerships between agencies, communities, volunteers, and other collaborators for marketing, resource management, safety, and maintenance can increase efficiency, effectiveness, and provide a better service to the user. For example, jurisdictional collaboration on a statewide recreation pass would elevate agency confusion and misinterpretation of required recreation passes. Furthermore, recreation providers should

Types of project that could be funded under this category:

- Projects that involve collaboration and/or sharing of information, data, best practices among land management agencies/ recreation agencies, universities, communities and volunteers
- Projects that involve collaboration between stakeholder groups throughout the duration of the project including planning, development, and long-term stewardship
- Project that facilitate connectivity to recreational opportunities either physically, economically, or through collaboration in research, marketing, outreach, education, and communication efforts

not only strive to create connectivity between institutions but also in physical attributes such as trails, recreation areas, and conservation strategies.

5.6 MARKETING, COMMUNICATION AND EDUCATION OPPORTUNITIES

Today's youth are spending less and less time outdoors in part due to technology and dependence on electronics. Although this lack of early exposure to nature can lead to reduced environmental ethics and outdoor recreation experience, technology is here to stay and opportunities to engage youth in outdoor activities need to integrate these two areas in order to grow the next generation of outdoor recreation enthusiasts.

Environmental education programs in the classroom as well as in the parks are necessary tools to teach the benefits of outdoor recreation, conservation, and safety. Many agencies and recreation providers do readily provide educational opportunities; however, our research shows that a gap exists in the dissemination of information between providers and the public. Providing easily accessible information and awareness about recreation areas, access points, and opportunities is important. The information disseminated is useless unless it is digested and retained by the public. With print material being replaced by online digital media, tools like social media and websites are relatively easy and effective means of providing information to those whom are already associated with the organization(s). Despite this online presence, the millennial participants in the focus group reported that they receive information about outdoor recreation opportunities from their own social networks as opposed to agency social media channels. This emphasizes the need for agencies to assess their marketing, education, and communication efforts to ensure that they are reaching their intended audience.

Types of project that could be funded under this category:

- Shared marketing, outreach, and/or education campaigns and projects which reach out to underrepresented populations
- Developing, promoting, and consolidating mobile applications and other technologies which promote outdoor recreation and increase user accessibility
- Projects which consolidate recreational opportunity information related to trails whether it be via social media, print or other forms of distributing this information that aim to increase the user experience
- Funding outreach and educational projects/events that teach the importance of conservation, preservation, and sustainability such as Leave No Trace
- EXAMPLES: Website upgrades related to outdoor facilities, promotion of mobile maps or applications which engage the user during the outdoor recreation experience (iBird, Strava, TrailFork, etc.), provide wifi at campgrounds

5.7 FUNDING

Securing sustainable funding for the long term stewardship of our state's recreation areas is an ongoing issue. In an age of user-generated funding, budget cuts and short-term grant funding cycles, organizations and agencies are routinely required seek out creative ways to do more with less, and use existing resources efficiently. Seeking innovative collaborations, private/public partnerships, and grant opportunities is required to keep up with ongoing maintenance of facilities and existing infrastructure. In addition, the State of Arizona is focusing on enhancing agency efficiency through problem identification and data analysis, the implementation of solutions, and consistent monitoring to identify if solutions are effective. Recreation providers should be seeking innovative means of optimizing long term sustainability and vitality to adapt to changing economic times, not just seeking to maintain systems and operations.

Types of project that could be funded under this category:

- Projects which work in conjunction with local communities to stimulate economic benefits of outdoor recreation opportunities provided
- Projects which are funded through multiple stakeholder contribution to match, provide overmatch, and/or in-kind match
- Projects which demonstrate a maintenance plan and budget for the duration of the project

Chapter 6 OPEN PROJECT SELECTION PROCESS (OPSP)

6.1 LAND AND WATER CONSERVATION FUND

6.1.1 Process

The open project selection process is used to make funding decisions for the federal Land and Water Conservation Fund (LWCF) grant programs administered by Arizona State Parks and Trails (ASPT). The guidelines for the LWCF programs are based on the results of the SCORP planning process and public input.

Project Solicitation

Eligible applicants under the LWCF grant program include the state, all of its political subdivisions and tribal governments. In accordance with a 1994 Memorandum of Agreement between the Arizona Outdoor Recreation Coordinating Commission (AORCC) and the Arizona State Parks and Trails Board (ASPTB), traditionally a portion of the LWCF allocation has been made available for competitive grants and a portion has been utilized for outdoor recreation projects at Arizona State Parks and Trails. When a funding cycle is announced, a grant manual is posted with instructions on how to apply, a grant workshop is provided giving eligible applicants an opportunity to review the program requirements and ask questions. The workshops are designed to ensure that applicants understand the guidelines and rating criteria used in the LWCF program, and assist them in developing quality projects and applications.

Project Selection

Once LWCF Grant applications are received, each application is reviewed by ASPT staff to make sure it meets the minimum guidelines and legal requirements. These projects are then reviewed by a review team made up of ASPT staff and outdoor recreation professionals. The grants are scored using rating criteria developed through the SCORP planning process. The plan and rating criteria is approved by the Arizona Outdoor Recreation Coordinating Commission (AORCC) and ASPTB. Grant funding recommendations are then presented to AORCC for their review and recommendation. AORCC then forwards their recommendations to the ASPTB for final action.



This rating criteria was developed from various components of the SCORP planning

process and a working group comprised of recreation professionals from around the state. Arizona State Parks and Trails projects have not been rated competitively since the 1994 Memorandum of Agreement allowing a portion of the LWCF allocation to be used for outdoor recreation projects within the Arizona State Parks and Trails system.

Arizona Outdoor Recreation Coordinating Commission

AORCC is an advisory body to the ASPTB with many responsibilities, including review of statewide outdoor recreation plans and oversight of the LWCF grant process. Made up of mostly parks and recreation professionals appointed by the Governor. AORCC is responsible for making statewide planning and funding recommendations to the ASPTB.

Public Participation

Public participation is the basis of the Arizona SCORP and the LWCF grant program in Arizona. Public participation is integral to the LWCF grant program for the development of guidelines and rating criteria and in project solicitation and selection. This participation is achieved through numerous opportunities for public comment including during the planning process, and at AORCC and ASPTB meetings during the SCORP and grant selection process.

Program Review and Updating

Further, in an effort to obtain pertinent input from the applicants, AORCC may occasionally established a task force comprised of recreation professionals representing various geographical locales and jurisdictional affiliations. This group meets to discuss and evaluate the current rating criteria and guidelines that are being used. Ultimately the group may recommend changes to the process for future use. As a result, the rating criteria and weightings change periodically to reflect the needs and demands of recreation providers and the public. Current guidelines and the rating criteria can be found in the LWCF grant application manual, which is revised and printed each cycle.

6.1.2 LWCF Grant Program Details

The following is a brief summary of the LWCF grant program. This information is available to the general public as well as any group or organization upon request from Arizona State Parks and Trails.

Authorization and Purpose

The Land and Water Conservation Fund (LWCF) Act of 1965 (Public Law 88-578) became effective January 1, 1965 and has since been authorized to continue through 2018. The Act provides financial assistance to states, their political subdivisions and Indian tribal governments for the acquisition and development of public outdoor recreation areas and facilities.

Eligible Applicants

Eligible applicants under these programs include incorporated municipalities, counties, state agencies, and Indian tribal governments. In accordance with a 1994 Memorandum

of Agreement between AORCC and the ASPTB, a portion of the LWCF allocation may be made available for competitive grants and a portion may be used for outdoor recreation projects at Arizona State Parks and Trails.

Eligible Activities

Eligible activities for the LWCF program include, but are not limited to: *park development* (e.g., playground equipment, lighting, picnic facilities, ballfields, ramadas, sports facilities, restrooms and other facilities deemed appropriate or eligible by federal and state guidelines) and *land acquisition* to serve future outdoor recreation and/or open space, or protect wetlands. Projects related to statewide outdoor recreation planning are also and eligible activity.

Matching Requirement

LWCF grants are awarded on a 50/50 match where the participant provides at least 50% of the project cost and the grant provides the other 50%.

State Contact

Contact Arizona State Parks and Trails Grants and Trails Section at (602) 542-6942 for further information.

The Arizona State Parks and Trails Board adopted a new vision for the agency in 2009 emphasizing that part of the agency's mission to not only manage the state's *recreational, natural and cultural* resources but also to educate stakeholders, the public, the media and decision makers about the importance of the system, the benefits of preservation for individuals, families, economies, communities and the environment. The ASPTB directed staff to implement this vision throughout its parks and programs, including the numerous grant programs administered by the agency.

Vision: *Arizona State Parks and Trails and Trails is indispensable to the economies, communities, and environments of Arizona.*

6.2 FY 2018 LWCF RATING CRITERIA

The rating criteria are based on the priority issues identified through the SCORP process and were developed by the SCORP Work Group and Arizona State Parks and Trails and Trails Grants staff.

Table 11. FY 2018 LWCF Rating Criteria Summary

Criteria	Points
1. Collaboration	20
2. Conservation of Resources	30
3. Funding	35
4. Engagement and Communication	25
5. Accessibility and Inclusion	23
6. LWCF History/Compliance	10
Total	

6.2.1 Collaboration

Arizona State Parks and Trails and Trails is encouraging applicants to identify and work with partners to protect the special places in their communities and across the state. Collaboration includes the sharing of resources among different groups. Partnerships may be with other agencies, and/or organizations with similar or compatible missions, Friends Groups, volunteers or other stakeholders. Recreation providers should not only strive to create connectivity between institutions and people, but also in physical attributes such as trails, recreation areas and conservation protection strategies.

Projects that collaborate with more than 1 other organization, group or individual will receive higher points. Also, those projects that serve to connect public recreation opportunities will also receive higher points.

Points will be awarded on a sliding scale if at least 10% of your agency's match comes from collaboration with other entities.

Table 12. Collaboration Criteria

Collaboration Criteria	Points
If collaborating with another agency/organization, please indicate the collaboration effort with a letter from that other agency	5 points
How much (\$) of your match will come from other entities? (This match must be documented from the donating agency/organization)	5 points
If project is providing connectivity with another agency, please provide a map showing this connectivity	5 points
If collaborating with volunteer or Friends group, please provide a letter from that group explaining this effort	5 points
Total	20 points

6.2.2 Conservation of Resources

The public, the media and decision makers are starting to become more aware of what parks and open space contribute to the quality of life of Arizonans, both now and in the future. Protection of Arizona’s natural and cultural resources, public lands, recreation areas, and scenic landscapes are increasingly necessary. Human activities, including population growth, and naturally occurring events, such as wildfire, flooding, erosion, and the spread of invasive species, increase the need for long term stewardship of resources. Furthermore, conservation strategies and partnerships should be formed to address issues related to conservation across jurisdictions, using the best practices and current information to effectively address these issues.

Applicants are encouraged to conserve resources by: 1) maintaining existing facilities and public recreation sites; 2) incorporating innovative and effective technologies and green building practices into their renovation and development projects; and/or 3) protecting natural and cultural resources and open space.

Table 13. Conservation of Resources Criteria

Conservation of Resources Criteria	Points
<i>Renovation</i> —Renovation of a public outdoor recreation facility that is at least 20 years old. (use of green technologies in renovation activities scores higher points)	20 points
<i>Renovation and Development</i> —Renovation of an outdoor recreation facility that is at least 20 years old and development/construction of a new outdoor recreation facility. (use of green technologies in renovation and development activities scores higher points)	13 points
<i>Acquisition and Development</i> —Acquiring permanent rights in property and developing a new outdoor recreation facility on that property - (use of green technologies in development activities scores higher points)	8 points
<i>Acquisition</i> - Acquiring permanent rights in property for public outdoor recreation purposes (acquisition of unique, natural areas or wetlands scores highest)	5 points
<p><i>Conservation</i>- Explain how this project will incorporate design elements, sustainable products or habitat enhancement in the most effective manner to conserve water or energy, or enhance natural resources (Conservation examples could include use of "green" practices (products or technology), smaller footprint (less concrete or ASPThalt), energy efficiency or conservation use of timers or sensors, solar energy).</p> <p>Explain how this project will protect existing natural and cultural resources within the project boundaries; include size of area to be protected and uses to be allowed (Examples of existing natural and cultural resources include riparian areas, washes, wetlands, other native plant communities, or wildlife habitats).5 pts.</p> <p>Explain how this project will protect existing natural and cultural resources within the project boundaries; include size of area to be protected and uses to</p>	10 points

be allowed (Examples of existing natural and cultural resources include riparian areas, washes, wetlands, other native plant communities, or wildlife habitats).5 pts.	
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6.2.3 Funding

Matching Funds

LWCF funding will not exceed 50% of a project’s total project cost. All applicants must provide a minimum of 50% of the total project cost. This match may include cash, materials, equipment, donated labor or other State and/or local grants. Please provide the source of the match for this project.

Table 14. Matching Fund Criteria

Matching Fund Criteria	Points
<i>Secured Match:</i> % if match that is secured. This match must be documented with a verified letter that indicates the value of the match.	15 points
<i>Other Match:</i> (%). Please explain your plan for the balance of the required match that has not yet been documented for the project.	10 points

Project Sustainability

The ability of the applicant to operate, maintain or manage the facilities constructed or land acquired with grant funds throughout the required term of use is an essential factor of the LWCF grant programs. These grant programs mandate that any facilities or land, including natural areas or open space, purchased with grant funds be available for public use in perpetuity.

Table 15. Sustainability Criteria

<i>Project Sustainability:</i> Explain and document how your agency intends to operate, maintain or manage this project once it is completed. (if they are not maintaining their current sites—they will not get any points)	10 points
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6.2.4 Engagement and Communication

Project Need (Project Specific Planning/Public Involvement)

This proposed project should be designed to meet the priority needs expressed by local, regional or statewide recreation users and to link recreation opportunities. This criterion refers to project specific planning.

Table 16. Engagement and Communications Criteria

Engagement and Communication Criteria	Points
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Explain and document what circumstances brought this project (the one this application is for) to the forefront and why this project is a priority. Include the demographics of your service area	5 points
1) Explain and document your public outreach efforts, what you did to solicit public involvement (for example, held public hearings or meetings, conducted surveys, put notices in radio or newspapers). 2) Explain and document how the public was involved in determining the need or how they responded to your public outreach efforts for the project you are applying for. 3) Document how the public demonstrated support and affirmation for the project	10 points
This would include any innovative means of engagement for members of project communities, particularly youth, in the planning process. Recreation development and experiential learning opportunities. Participation in these processes will foster a sense of ownership and stewardship for the recreation resources. (More points for innovative methods of engagement)	2 points
Will your proposed project serve and engage youth to grow the next generation of outdoor recreation enthusiasts? If so, how?	5 points
Will your project include any education opportunities or materials? If so, focused on what user group(s)? (Projects that provide educational opportunities or materials for youth will score higher)	3 points
Total	

6.2.5 Accessibility and Inclusion

Table 17. Accessibility and Inclusion Criteria

Accessibility and Inclusion Criteria	Points
Will your project provide facilities or opportunities for underserved populations? Teenagers, children, low income & ethnically diverse groups	5 points
Will this project fill a gap in recreation demand in your service area?	5 points
Will your project provide activities or opportunities for multiple user groups (age groups, ethnic groups, activity user groups, etc.)?	5 points
Is your facility or part of your facility ADA compliant? (5 point full ADA, 2 points partial, 0 points none)	5 points
Will your proposed project serve local, regional or statewide users? (3 points—Statewide, 2 Regional, 1 local)	3 points
Total	23 points

6.2.6 LWCF History/Compliance

Table 18. LWCF History/Compliance Criteria

LWCF History/Compliance Criteria	10 Points
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Are your current LWCF and recreational facilities maintained and free of any major issues?	7 points
If yes, do you have a current LWCF facility that will need to be converted? If conversion has not been addressed, they will not be eligible.	
Do all of your LWCF facilities have the required LWCF signage?	3 points

APPENDIX

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