



Fiscal Year 2019
Annual Report

Commission Members

Charles Paradzick, Chair
Pat Jacobs, Vice Chair
Paul Brick
Dr. Lucinda Earven
Michael Macauley
Roy Pierpoint
William Schock

Executive Director

Reuben Teran

Arizona Water Protection Fund Commission

1110 West Washington, Suite 310, Phoenix, AZ 85007
Phone: (602) 771-8528



Ex-Officio Members

Thomas Buschatzke
Director
AZ Department of Water Resources

Lisa Atkins
State Land Commissioner
AZ State Land Department

Advisory Members

The Honorable Sine Kerr
AZ State Senate

The Honorable David L. Cook
AZ House of Representatives

July 1, 2019

Honorable Douglas A. Ducey
Governor of Arizona, and

Honorable Members
Arizona State Legislature

I am pleased to submit to you the Fiscal Year 2019 Annual Report of the Arizona Water Protection Fund Commission (Commission). This report provides an overview of program accomplishments from July 1, 2018 through June 30, 2019.

This was the 24th year of our statewide public grants program to provide for a coordinated effort between state funding and locally led solutions for the restoration and conservation of the water resources of the state. With available funds and appropriations provided from the Legislature for FY 2019, the Commission was able to offer a grant cycle which resulted the receipt of 23 grant applications and approximately \$1.5 million being awarded to nine projects. The nine projects address a diverse set of critical water and watershed issues including:

- Forest thinning near Williams to protect water supplies;
- Treatment of invasive species on the Verde River;
- Grassland restoration in southern Arizona;
- Stream or spring restoration projects in Payson, Prescott, and Flagstaff;
- Water conservation/irrigation efficiency assessment in the Gila Valley; and
- Native fish research

To date, the Commission has awarded 229 grants totaling over \$45 million. Projects have been funded in every county throughout Arizona supporting effective restoration and watershed management strategies that improve water quality and quantity in our rivers and riparian ecosystems. Through these investments, the Arizona Water Protection Fund, in cooperation with our grantees, has contributed significantly to statewide natural resource protection, which conserves and enhances the economic, recreational, and environmental values for all of Arizona's current and future residents.

The Commission is honored to oversee the Arizona Water Protection Fund and to participate in protecting, restoring and enhancing some of the state's most valuable natural resources. Please contact me at (602) 236-2724 if I can answer any questions.

Sincerely,

A handwritten signature in black ink that reads 'Charles E. Paradzick'.

Charles Paradzick
Chair

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EXECUTIVE SUMMARY

At the beginning of Fiscal Year (FY) 2019 there were seven active Arizona Water Protection Fund (AWPF) grant projects being implemented across the state. With available funds and appropriations provided from the Legislature for FY 2019, the Arizona Water Protection Fund Commission (Commission) was able to offer a grant cycle which resulted in the receipt of 23 grant applications and approximately \$1.5 million being awarded to nine projects. Two projects were completed and closed out in Yavapai and Greenlee/Graham Counties, and at the end of FY 2019 there were 12 active grants projects in Cochise, Coconino, Gila, Pima, Graham, Maricopa, Yavapai, and Apache Counties. These projects are focused on identifying water conservation measures, enhancing degraded stream channels, and facilitating the treatment and removal of invasive plants including tamarisk and juniper for overall watershed improvement and health. There are three projects funded in FY 2019 that are still in the grant award contracting phase that are planned to be implemented in Coconino, Gila, and Graham Counties.

Two Commission members were appointed during FY 2019 which included one voting member and one non-voting advisory member. Program staff was also notified of a non-voting advisory member appointment made in FY 2018, which brings the total number of AWPF Commission members to 11 at the end of FY 2019.

From 1995 to 2019, the Commission has supported 229 projects and awarded more than \$45 million toward the restoration, protection and enhancement of river and riparian resources in Arizona. As a result, Arizona citizens have realized many benefits from these investments through improvements in water quality, in-stream flows/water supplies, biodiversity, fish and wildlife habitat, recreation, flood control and overall watershed functionality and sustainability. In addition, important socioeconomic benefits such as jobs and revenue streams are realized by many local communities through the implementation of AWPF projects.

ARIZONA WATER PROTECTION FUND CREATION AND PURPOSE

The 1994 Arizona Legislature established the Arizona Water Protection Fund (AWPF), and the Arizona Water Protection Fund Commission (Commission) to administer the AWPF (A.R.S. § 45-2101 *et seq.*). In passing the enabling legislation, the Legislature declared that the policy of the state is to provide for a coordinated effort between state funding and locally led solutions for the restoration and conservation of this state's rivers, streams and associated riparian habitats, including fish and wildlife resources that are dependent on these important habitats.

The primary purpose of the AWPF is to provide an annual source of funds for the development and implementation of measures to protect water of sufficient quality and quantity to maintain, enhance and restore rivers, streams and associated riparian resources consistent with existing water law and water rights. The Commission may also provide funding to develop and protect riparian habitats in conjunction with a man-made water resource project if the project directly or indirectly benefits a river or stream, and includes or creates riparian habitat. The Commission, supported by staff from the Arizona Department of Water Resources (ADWR), solicits, reviews, and awards grants to any person, state agency, or political subdivision to implement local on-the-ground solutions to improve our state's river, streams, and watersheds.

PROGRAM ORGANIZATION

Arizona Water Protection Fund Commission

The 13-member Commission is the main policy making body for the AWPF. The Commission is comprised of nine voting members who must be Arizona residents who, by statute, represent a variety of land, water use, and socioeconomic perspectives. There are two non-voting ex officio members – the Director of the Arizona Department of Water Resources and the Commissioner of the Arizona State Land Department; and two non-voting advisory members – one from the Arizona State House of Representatives and one from the Arizona State Senate.

Changes in Commission membership for Fiscal Year (FY) 2019 included the appointment of the Honorable Sine Kerr, notification of the appointment of the Honorable David L. Cook, the resignation of Mr. Mark Holmes, and the appointment of Dr. Lucina Earven. A list of current Commission members and vacancies as of June 2019 is provided in Table 1.

Table 1. Arizona Protection Fund Commission Members as of June 2019.

Commission Member / Affiliation	Statutory Category Represented	Appointing Authority
Charles Paradzick* Salt River Project	Agricultural Improvement District	Governor
Pat Jacobs** Central Arizona Project	Multi-County Water Conservation District	District Governing Board
Harold Paul Brick San Pedro Natural Resource Conservation District	Natural Resource Conservation District	Senate President
Dr. Lucinda Earven Hereford Natural Resource Conservation District	Natural Resource Conservation District	Speaker of the House of Representatives
Michael Macauley Coconino Natural Resource Conservation District	Natural Resource Conservation District	Senate President
Roy Pierpoint Gila Bend Natural Resource Conservation District	Natural Resource Conservation District	Speaker of the House of Representatives
William Schock Santa Cruz Natural Resource Conservation District	State Association of Natural Resource Conservation Districts	Governor
VACANT	Member of the Public – B.S. in Hydrology – City Served by the Central Arizona Project	Governor
VACANT	Indian Tribe	Intertribal Council of Arizona
Thomas Buschatzke Director Department of Water Resources	Non-voting Ex Officio Member	Arizona Revised Statutes § 45-2103(A)(7)
Lisa Atkins State Land Commissioner State Land Department	Non-voting Ex Officio Member	Arizona Revised Statutes § 45-2103 (A)(7)
Honorable Sine Kerr AZ State Senate	Non-voting Advisory Member	Senate President
Honorable David L. Cook AZ House of Representatives	Non-voting Advisory Member	Speaker of the House of Representatives

*Chair, **Vice-Chair

Arizona Water Protection Fund Administration

ADWR provides the primary technical, legal, and administrative staff to the Commission. The AWPf program is managed by its Executive Director. Staffing for the program during FY 2019 included the Executive Director and a ½ time legal counsel.

FISCAL YEAR 2019 ACCOMPLISHMENTS

FY 2019 began with seven active grant award contracts. The Commission approved moving forward with a FY 2019 grant cycle upon the hiring of a new Executive Director in June of 2018. A grant application workshop was held with its first live webinar option in August 2018 that reached a total of 46 participants. 20 people attended the workshop in person, and 26 participated via the online webinar. Staff provided pre-application technical assistance to members of the public and potential grant applicants through a total of nine scheduled grant application consultations, and numerous phone call and e-mail inquiries.

The AWPf received a total of 23 grant applications for FY 2019. One applicant requested its application be withdrawn from consideration during the review process, which left 22 applications and approximately \$4 million in funding requested. Following the two-day public meetings and grant application presentations in November 2018, the Commission awarded funding to nine projects totaling approximately \$1.5 million. The projects funded in FY 2019 are identified below. Of the 22 grant applications considered, seven contained components specifically related to the removal of non-native, invasive species, with over \$1 million requested for those specific proposals.

From January 2019 through the end of the fiscal year AWPf staff continued to provide technical support to current AWPf grantees through the management of 14 grant projects, and continued to work on negotiating three additional grant award contracts. Two projects were closed out in FY 2019. Other activities completed by staff included the initiation of the State of Arizona’s Digital 5S program with an inventory and catalog of AWPf electronic and paper records, and coordinating with ADWR executive staff and Legislative staff to initiate the process of filling AWPf Commission member vacancies.

Grant Projects Completed in Fiscal Year 2019

15-186WPF: Phase II Gila River Corridor Invasive Weed Control

Map #	Grantee	County	AWPF Funding	COMPLETED
192	Coronado Resource Conservation and Development Area	Graham / Greenlee	\$133,348.42	April 30, 2019

Project Description:

The goal of this project was to use an integrated Weed Management Program to protect the integrity of the Gila River by controlling invasive weeds (specifically Russian knapweed, White top, Bull thistle, Malta starthistle, and Yellow starthistle) from the 54-mile river corridor through

Greenlee and Graham counties. This project was the second phase of invasive weed control along the Gila River corridor located in Graham and Greenlee counties. The initial AWPf project (11-173WPF) completed in 2015 identified and addressed barriers to treatment of invasive and noxious weeds in the area, as well as serving as an aid to the restoration of the native riparian vegetation within the corridor. Inventory of private land parcels for noxious weed presence was initiated in the spring of 2012 followed with treatment of targeted noxious weeds by participating landowners. Riparian tree cover class and composition transects were also established adjacent to parcels where infestations were documented. These efforts were implemented through 2014 and the Phase II project continued to use a comprehensive, aggressive approach to address barriers to treatment and reach the project goal of restoring the native riparian area by controlling invasive weeds. Through the implementation of this project, the project area increased from a ½-mile corridor to a 1-mile corridor from the active stream channel of the Gila River. The project also included an educational outreach component to make the community and landowners aware of the economic and biological impacts of invasive weeds and worked with the counties and community to investigate the long-term sustainability of the program.

15-187WPF: Upper Verde Habitat Improvement Project

Map #	Grantee	County	AWPF Funding	COMPLETED
193	Friends of Verde River Greenway	Yavapai	\$169,325.00	August 31, 2018

Project Description:

This project focused on the removal of invasives followed by monitoring and maintenance that contributed to a larger effort called the Verde River Cooperative Invasive Plant Management Plan (CIPMP). The CIPMP is a strategic approach to control prioritized invasive plants in the riparian areas of the Verde Watershed while increasing stakeholder collaboration.

The tasks within this specific project furthered the larger goals of decreasing the impacts of non-native species to riparian areas; improved riparian wildlife/fish habitat; created local employment; and informed communities. The three main components of the project were: the removal of invasive plants including salt cedar (*Tamarix spp.*) and Tree of Heaven (*Ailanthus altissima*); monitoring of previously treated sites and maintaining treated sites; and implementing a public outreach program to inform the public about the project and river and riparian resources.

Approximately 1,500-acres of non-native, invasive species were treated in the project area across all years, along 7.3-miles of the Upper Verde River on U.S Forest Service Forest lands using a combination of manual, mechanical and chemical methods. Site maintenance and monitoring for invasive species occurred on approximately 1,356-acres of previously treated sites.

Fiscal Year 2019 Active Grant Projects

14-182WPF: Arundo Eradication & Riparian Restoration of Sabino and Bear Creek, Tucson, AZ

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
188	University of Arizona	Pima	\$51,262.00	May 31, 2020

Project Description:

This project builds upon a six-year effort of giant reed (*Arundo donax*) removal that began in Sabino Canyon Recreation Area in 2007 and that has fully removed the *Arundo* infestation from the Sabino Canyon Recreation Area and 1.71 miles of mostly private riparian land downstream from the U.S. Forest Service, Coronado National Forest boundary. Previous removal efforts have proven effective, but still 2.58 miles of channel remains to be cleared down to the confluence of the Pantano and Rillito Washes.

The three main goals of the project include: (1) Remove invasive *Arundo donax* from Sabino and Bear Creeks; (2) Improve conditions for riparian vegetation and wildlife; and (3) Improve distribution of flood flows.

The objectives include: (1) Clear Pima County parcels in Upper and Lower Bear Creek; (2) Clear Canyon Ranch Resort/DeBernardis property along Middle Sabino Creek; (3) Clear Tankersley Estates property along Middle Sabino Creek; (4) Clear infestations in Lower Sabino Creek to the confluence of the Rillito; (5) Monitor previously cleared reaches of Sabino and Bear Creeks; and (6) Clear parcels in Rock Creek/Ventana Canyon (Lowes Ventana Canyon Resort and Pima County access).

17-188WPF: A&NC Focal Area Watershed Improvement Project

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
194	Arizona Association of Conservation Districts	Apache	\$303,975.00	January 31, 2020

Project Description:

The Brown Ranch consists of private, state, and Bureau of Land Management lands which have been extensively invaded by juniper. Increased brush cover has reduced soil protection, increased flood runoff, increased soil erosion and sediment production and impacted riparian vegetation. Brush control will improve the watershed condition and contribute to the goals of conserving resource productivity, enhancing wildlife, improving water quality and restoring riparian vegetation. This project intends to mechanically remove juniper on 2,000-acres of upland in the Apache-Navajo County Focal Area of the Arizona Conservation Partnership.

17-189WPF: Erosion Control to Stabilize Soils and Restore Historic Grasslands in the Upper Verde River Watershed

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
195	Town of Prescott Valley	Yavapai	\$138,183.00	September 30, 2020

Project Description:

The proposed project intends to demonstrate how landscape management can stabilize soils, increase opportunity for aquifer recharge, and restore historic grasslands through a combination of vegetation treatment and erosion control including 240-acres of pinion juniper (hand) thinning with byproducts used to engineer and build silt dams in eroded areas on private and leased state trust lands. The project area encompasses 1,940-acres of the York-Kenson Ranch.

Historically, thinning projects have resulted in the cut pinion juniper material left in-situ to decompose or burned on site. The proposed unique approach utilizes thinned low-value woody biomass as the basis for erosion control structures to stabilize soils in gullies and upland areas.

17-190WPF: River Restoration through Hazardous Fuels and Invasive Species Removal

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
196	Gila Watershed Partnership	Graham	\$94,903.00	August 31, 2019

Project Description:

Salt cedar (*Tamarix spp.*) has established a dense monotypic forest throughout the riparian corridor, out-competing native plant species, increasing wildfire frequency/intensity and altering terrestrial and aquatic wildlife habitat. As a response to this infestation, the tamarisk leaf beetle was released as a biocontrol agent to defoliate and limit tamarisk invasions. The vast stands of tamarisk, once defoliated by the beetle, will then become more of a wildfire risk, and contribute to bank de-stabilization. The Gila Watershed Partnership (GWP) is working closely with a variety of public and private partners to secure the necessary funding to implement riparian restoration through the Gila River corridor. This proposed project is an important component of this effort.

This is a two-year project intended to provide for the restoration of 100-acres of riparian forest on the Upper Gila River. The project will promote functioning riparian areas, increase water availability by reducing demand from dens tamarisk forests, reduce risks to landowners relating to flooding and wildfire, protect, and enhance wildlife habitat and provide a replicable example for similar efforts around the state.

An ecohydrological assessment was completed to determine high and medium priority sites. Seven sites were chosen existing on federal and private lands. Control measures will include mechanical removal of tamarisk and herbicide treatments. Riparian restoration of these treated areas will include planting with native, less water intensive plant communities.

17-191WPF: Verde River Habitat Improvement Project

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
197	Friends of the Verde River Greenway	Yavapai	\$246,448.00	October 31, 2019

Project Description:

The proposed project intends to decrease the impacts of non-native species (salt cedar, Tree of Heaven, Russian olive, giant reed) to the Verde River within the AZ State Parks Verde River Greenway and Dead Horse Ranch. The Grantee intends to retreat 297-acres of non-native invasive plants along a 2.8 mile stretch of river through manual, mechanical and chemical control methods and techniques. There are three elements to the project: 1) monitor invasive plant regrowth from previously treated areas; 2) re-treat re-growth of invasive species; 3) engage the local community through two volunteer stewardship events.

17-192WPF: Lower Verde River Riparian Restoration Project

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
198	Ft. McDowell Yavapai Nation	Maricopa	\$113,896.00	October 31, 2020

Project Description:

This project is located along the Lower Verde River within the boundaries of the Fort McDowell Yavapai Nation, and intends to continue restoration efforts through the control of invasive plant species which threaten the biodiversity and overall health of the riparian areas. The goals of this project are to (1) promote and establish native riparian habitat in preparation for the eventual arrival of the tamarisk beetle and the subsequent defoliation, loss of habitat and increased wildfire risk, and (2) increase community and youth engagement with the Fort McDowell Yavapai Nation to encourage environmental stewardship.

The objectives of this project are to continue to implement an invasive plant management plan to retreat giant reed and tree tobacco; develop a restoration manual; develop and implement a restoration plan at a 30-acre Pilot Project Site; monitor invasive plant treatments and restoration efforts; and incorporate a youth and community outreach effort.

19-193WPF: Verde River-Oak Creek Confluence Habitat Improvement Project

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
199	Friends of the Verde River	Yavapai	\$292,451.00	December 31, 2021

Project Description:

The project area spans a total of 275 riparian acres within a 4.1-mile river reach located around the Verde River and Oak Creek confluence on Coconino National Forest lands. Work will take place along a 1.4-mile upstream reach of Oak Creek; and a 0.5-mile reach upstream of the confluence on the Verde River and a 2.7-mile reach on the Verde River downstream of the confluence.

The Grantee will monitor previously treated areas of the Verde River and Oak Creek confluence. Within the overall 275-acre project area, initial treatment of 16-acres of high-density invasive plants will be completed, in addition to re-treatment of 77-acres of invasive plants. All project work will be implemented on lands managed by the Coconino National Forest lands. The Grantee will also plan and implement two volunteer events in coordination with the Coconino National Forest to engage the community in stewardship activities.

19-194WPF: Davis Cattle Co. Grassland Restoration

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
200	Arizona Association of Conservation Districts	Cochise	\$341,626.00	March 31, 2022

Project Description:

This 5,345-acre grassland restoration project intends to restore mesquite invaded grasslands on the headwaters of Government Draw Wash that flows into the San Pedro River, and the headwaters of Gadwell Canyon that flows into Whitewater Draw. Invasive mesquite will be treated using an aerial application of Sendero, Remedy, and Herbimax herbicides. The planned treatment area

includes 2,527-acres of private land, and-2,818 acres of Arizona State Trust lands. Treatment of the entire 5,345-acre project area will be cost shared between Arizona Water Protection Fund and Natural Resource Conservation Service Environmental Quality Incentives Program funds. Davis Cattle Co. will also provide grazing management of the treated areas over a 5-year period following aerial herbicide treatments.

19-195WPF: Gila Valley Irrigation District Rapid Appraisal for Modernization

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
201	Gila Valley Irrigation District	Graham	\$32,982.50	June 30, 2020

Project Description:

The Gila Valley Irrigation District (GVID) will conduct a rapid appraisal of the 11 canal systems that make up the Gila Valley Irrigation District. The purpose of this project is to complete a rapid assessment that will identify key factors related to water control in the GVID, define the level of water delivery service provided to users, and examine specific hardware, infrastructure, management techniques and processes used in the control and distribution of water. The goal of this project is to analyze the entire water delivery system to assess and plan for water management projects, modernize the delivery system on the canals, and increase on-farm efficiency to provide multiple water-use efficiency benefits.

The anticipated outcome will be that the GVID has an infrastructure modernization implementation plan to use for setting priorities in water delivery infrastructure improvement, in order to pro-actively plan and implement water conservation and modernization projects in the district to help support quantity and availability of water in the Gila River.

19-197WPF: Bill Williams Mountain Forest and Watershed Restoration Project

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
203	National Forest Foundation	Coconino	\$315,000.00	June 30, 2021

Project Description:

In 2016 the Kaibab National Forest (KNF) approved the Bill Williams Mountain Restoration Project due to high risk of catastrophic wildfire. The restoration plan calls for treatments on 15,000-acres on Bill Williams Mountain to protect watershed and forest health, and the local community. The purpose of the project is to reduce tree densities and biomass fuels at the top of Bill Williams Mountain to help minimize risk from catastrophic wildfire, as well as prevent post-fire flooding and subsequent debris flows.

In this phase of the Bill Williams Project the Grantee will focus tree thinning treatments on 200 of the highest priority acres on Bill Williams Mountain, located at the very top of the watershed, on the steepest slopes with extremely dense forest cover. Forest thinning work will consist of steep-slope mechanical thinning, which uses specialized equipment to cut and remove trees from areas with greater than 25-degree slopes. Marketable logs and woody biomass will be removed from these slopes and either stacked in log decks or piled for future burning at locations designated by the US Forest Service. Project-related benefits would improve ecosystem processes and protect watershed health and functions.

19-198WPF: Granite Creek Corridor Enhancement Master Plan

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
204	City of Prescott	Yavapai	\$79,401.00	October 31, 2020

Project Description:

The purpose of this project is to develop a community supported master plan for the enhancement of Granite Creek through downtown Prescott, AZ. The Granite Creek corridor has been heavily impacted by urban development and encroachment, but the 1.2-mile reach still retains many ecological and physical riparian functions.

Prior to development of plans for capital improvements, the City of Prescott (City) seeks to dialogue with all stakeholders to educate them about the physical and ecological potential of the stream. The City will then conduct an assessment and develop draft concepts for enhancement. The City will also hold a series of stakeholder meetings to gather input on the conceptual plans from all involved. Input will be incorporated into the development of a data driven master plan to increase stream function and associated riparian habitat, and increase green space connectivity along 1.2-miles of Granite Creek.

19-200WPF: American Gulch Channel and Riparian Enhancement

Map #	Grantee	County	AWPF Funding	Estimated Completion Date
206	Town of Payson	Gila	\$202,556.00	November 30, 2020

Project Description:

As a tributary to the East Verde River, American Gulch forms a major drainage through the Town of Payson, AZ. The ephemeral channel through the project area has been highly modified to serve as a stormwater conveyance and is currently sized to contain the Federal Emergency Management Agency estimated 100-year floodplain. The goal of the project is to restore a channelized section of American Gulch through the use natural channel design principles in order to improve riparian habitat within the channel while retaining flood control functions. The project area is approximately 1,000-ft long and construction will take place entirely within the existing channel, except for additional native plantings along the edge of the channel and around the adjacent urban trail.

Grant Award Contracts in Negotiation in Fiscal Year 2019

19-196WPF: Do Native Fish Facilitate the Persistence of Endangered Spikedace by Resuspending Food Particles

Map #	Applicant	County	AWPF Funding	Estimated Completion Date
202	Arizona Board of Regents for and on behalf of Northern Arizona University	Greenlee	\$32,496.00	<i>CONTRACT IN NEGOTIATION</i>

Project Description:

This project will use an experimental approach to quantify the extent to which native fish populations facilitate the persistence of the federally endangered fish species spikedace (*Meda fulgida*). Preliminary research suggests that the feeding activities of conspecific native suckers

may be important in resuspending organic particles and invertebrates that serve as food for Spikedace. By conducting a replicated field experiment in streams throughout the Gila basin of Arizona, this research proposes to reveal the quantity, timing, and composition of particulates resuspended via feeding activities of native Sonora suckers (*Catostomus insignis*). The Grantee hypothesizes that native suckers, by feeding on the stream bottom, resuspend organic matter into the water column and that some portion of those particles may serve as a food resource to spikedace, which forage exclusively on drifting organic matter and invertebrates high in the water column.

19-199WPF: Headwater Stream Restoration: Coyote Springs, Museum of Northern Arizona, Flagstaff

Map #	Applicant	County	AWPF Funding	Estimated Completion Date
205	Museum of Northern Arizona / Springs Stewardship	Coconino	\$31,846.00	<i>CONTRACT IN NEGOTIATION</i>

Project Description:

The Springs Stewardship Institute proposes to complete a headwater stream restoration project at Coyote Springs on the research campus of the Museum of Northern Arizona. The purpose of this project is to restore the geomorphology of a headwater stream system and restore natural flow to a wet meadow through the removal of a non-functioning spring box, re-contouring the wet meadow to allow for a natural hydroperiod, and restructuring the run-out stream channel to reduce incision. A small section of the meadow will be fenced to exclude grazing and protect spring-dependent sedges that are rare in Arizona. The site restoration will directly impact approximately 0.22-acres, and indirectly improve approximately 1-acre of riparian, stream, and wetland habitat. Monitoring the effectiveness restoration activities will be conducted to refine spring and headwater stream restoration techniques. Public outreach activities will include workshops on springs inventory and restoration. SSI also plans to develop internet web pages with images, video clips, and documentation of the restoration progress on the SSI website (springstewardship.org).

19-201WPF: Webber Creek Sediment Control Project

Map #	Applicant	County	AWPF Funding	Estimated Completion Date
207	Boy Scouts of America - Grand Canyon Council	Gila	\$166,057.50	<i>CONTRACT IN NEGOTIATION</i>

Project Description:

This project intends to improve water quality in Weber Creek by providing nutrient cycling and increasing streambank stabilization through trapping and reducing the inflow of sediments and water runoff from areas within and around Boy Scout Camp Geronimo. This project is being implemented in coordination with an Arizona Department of Environmental Quality Water Quality Improvement Program grant. Soil erosion sediments that currently discharge to Weber Creek will be reduced by the construction of such items as cross drainage structures, culverts, and roadside ditches with check dams. The project will occur at a scout camp with thousands of campers and visitors annually, and will increase public awareness of the function and value of riparian resources.

CONCLUSION

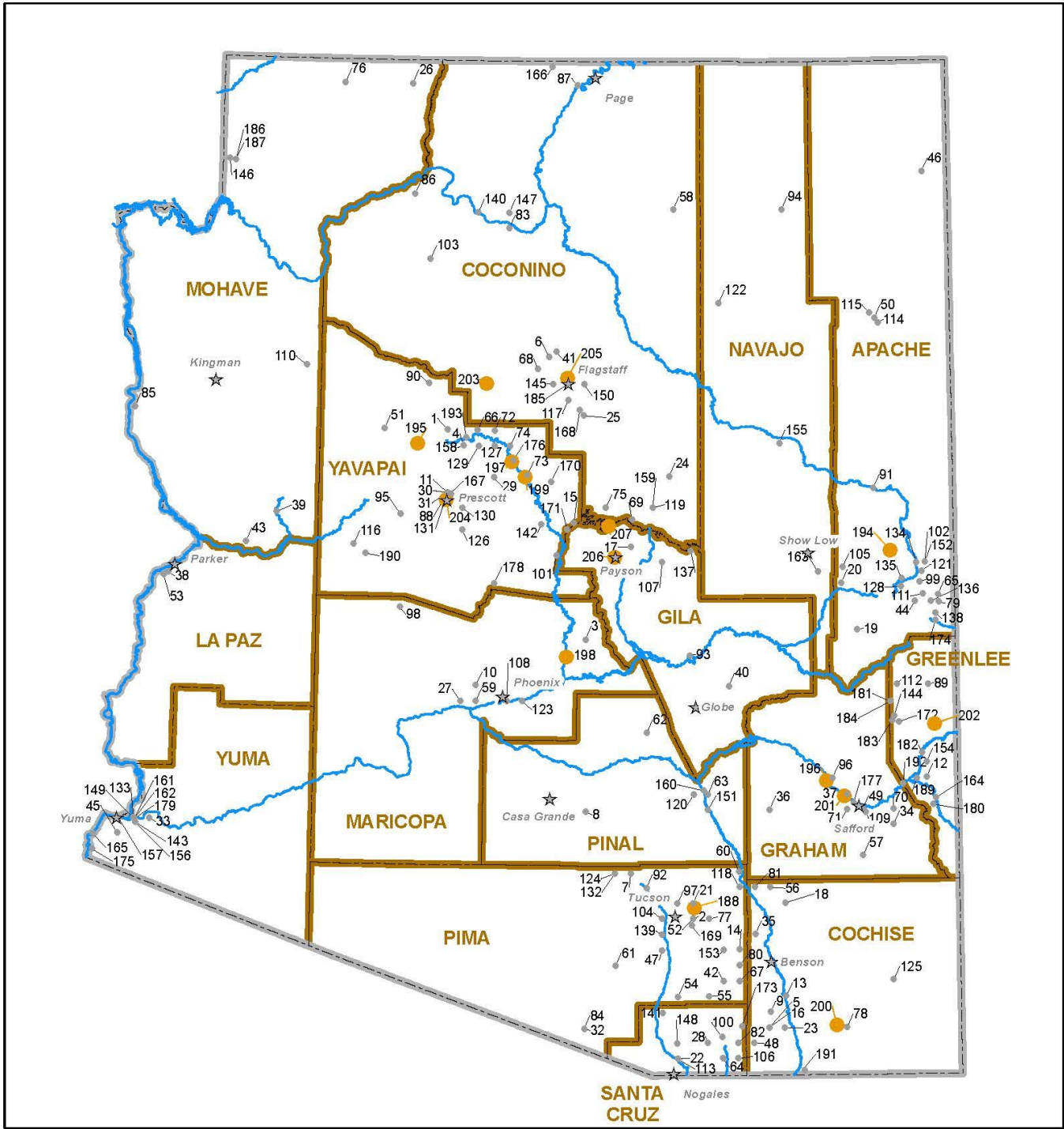
From 1995 to 2019, the Commission has supported 229 projects and awarded over \$45 million toward the restoration, protection and enhancement of river and riparian resources in Arizona. The Commission has funded a wide range of projects including stream channel restoration, riparian revegetation, wetland creation/restoration, fencing and other grazing management improvements, upland restoration, erosion control, conservation education, and applied ecological research. A complete list of projects and a general project location map are included in Appendix A. Project final reports generated since the inception of program can be requested from ADWR via a public records request.

The Water Protection Fund balance carried over from FY 2018, along with deposits into the Fund for FY 2019, allowed the Commission to offer a competitive grant cycle in FY 2019. Deposits included a one-time \$400,000 appropriation to the Water Protection Fund from the General Fund by Laws 2018, Chapter 330, and a \$250,000 Special Line Item appropriation from the General Fund in the Arizona Department of Water Resources budget. A financial statement as of June 30, 2019 is included in Appendix B.

Arizona citizens continue to realize many benefits from the AWPf investments through ongoing improvements in water quality, in-stream flows/water supplies, biodiversity, fish and wildlife habitat, recreation, flood control, and overall watershed health. Not only do communities rely on the state's watersheds and riparian areas for a general water source, but also for recreation, ecotourism, fishing, hunting, birdwatching, and agricultural operations. The Commission is committed to approving projects that are fiscally responsible and beneficial to the citizens of Arizona, and will work to continue making progress toward the restoration, protection, and enhancement of river and riparian resources throughout the State.

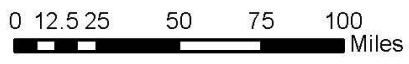
APPENDIX A: MAP AND LIST OF AWP PROJECTS

The following map and list of AWP projects contain a compilation of grants awarded between 1995 – 2019 that have been implemented through contracts. Projects with the N/A status have been awarded funding by the Commission, but a contract has not yet been finalized.



AWPF Project Location*

- Active Projects
- Closed Projects
- ★ City
- River
- ▭ Arizona
- ▭ County



**Arizona Water Protection Fund
Project Locations**

GIS Unit
Created on June 3, 2019
Location: U:\Workspaces\Director\WaterProtectionFund\Projects\AnnualReport\Maps\AWPFLocations2019.mxd

*See following map key for project descriptions

Map #	Grant #	Project Title	Grant Amount	County	Project Status
1	95-001	Stable Isotope Assessment of Groundwater and Surface Water Interaction: Application to the Verde River Headwaters	\$21,508	Yavapai	Complete
2	95-002	Partnership for Riparian Conservation in Northeastern Pima County (PROPIMA)	\$78,100	Pima	Complete
3	95-003	Sycamore Creek Riparian Management Area	\$115,522	Maricopa	Complete
4	95-004	Road Reclamation to Improve Riparian Habitat Along the Hassayampa and Verde Rivers	\$45,693	Yavapai	Complete
5	95-005	Preservation of the San Pedro River Utilizing Effluent Recharge	\$333,863	Cochise	Complete
6	95-006	Critical Riparian Habitat Restoration along a Perennial Reach of a Verde River Tributary	\$102,535	Coconino	Complete
7	95-007	High Plains Effluent Recharge Project	\$189,000	Pima	Complete
8	95-008	Picacho Reservoir Riparian Enhancement Project	\$2,400,000	Pinal	Terminated
9	95-009	Regeneration and survivorship of Arizona Sycamore	\$34,617	Cochise	Complete
10	95-010	Assessment of the Role of Effluent Dominated Rivers in Supporting Riparian Functions	\$46,750	Maricopa	Complete
11	95-012	The Comprehensive Plan for the Watson Woods Riparian Preserve	\$33,267	Yavapai	Complete
12	95-014	Gila Box Riparian and Water Quality Improvement Project	\$157,223	Greenlee	Complete
13	95-015	San Pedro RNCA Watershed Rehabilitation/Restoration Project	\$286,000	Cochise	Complete
14	95-016	Refinement of Geologic Model, Lower Cienega Basin, Pima County, Arizona	\$7,390	Pima	Complete
15	95-017	Restoration of Fossil Creek Riparian Ecosystem	\$59,693	Yavapai	Complete
16	95-018	Autecology and Restoration of <i>Sporobolus Wrightii</i> Riparian Grasslands in Southern Arizona	\$53,734	Cochise	Complete
17	95-019	Quantifying Anti-Erosion Traits of Streambank Graminoids	\$14,910	Gila	Complete
18	95-020	Teran Watershed Enhancement	\$142,378	Cochise	Complete
19	95-021	Lofer Cienega Restoration Project	\$161,204	Apache	Complete
20	95-022	Gooseberry Watershed Restoration Project	\$126,406	Apache	Complete
21	95-023	Sabino Creek Riparian Ecosystem Protection Project	\$16,385	Pima	Complete
22	95-024	Potrero Creek Wetland Characterization and Management Plan	\$75,300	Santa Cruz	Complete
23	96-0001	San Pedro Riparian National Conservation Area Watershed Protection and Improvement Project	\$89,250	Cochise	Complete
24	96-0002	Completion Phase: Hi-Point Well Project	\$77,844	Coconino	Complete
25	96-0003	Hoxworth Springs Riparian Restoration Project	\$31,545	Coconino	Complete
26	96-0004	Hydrologic Investigation & Conservation Planning: Pipe Springs	\$50,000	Mohave	Complete
27	96-0005	Tres Rios-River Management and Constructed Wetlands Project	\$1,000,000	Maricopa	Complete
28	96-0006	Hydrogeologic Investigation of Groundwater Movement and Sources of Base Flow to Sonoita Creek and Implementation of Long-Term Monitoring Program	\$155,715	Santa Cruz	Complete
29	96-0007	Ash Creek Riparian Protection Project	\$19,248	Yavapai	Complete
30	96-0008	Watson Woods Vegetation Inventory	\$16,115	Yavapai	Complete
31	96-0009	Watson Woods Riparian Preserve Visitor Management	\$8,556	Yavapai	Complete
32	96-0010	Rehabilitating the Puertocito Wash on the Buenos Aires National Wildlife Refuge.	\$83,432	Pima	Complete
33	96-0011	Lower Colorado River - Imperial Division Restoration	\$435,928	Yuma	Complete
34	96-0012	Eagle Creek Watershed and Riparian Stabilization	\$80,626	Graham	Complete
35	96-0013	Happy Valley Riparian Area Restoration Project	\$64,697	Cochise	Complete
36	96-0014	Klondyke Tailings Response Strategy Analysis (RSA)	\$77,614	Graham	Complete

Map #	Grant #	Project Title	Grant Amount	County	Project Status
37	96-0015	Abandonment of an Artesian Geothermal Well	\$113,360	Graham	Complete
38	96-0016	'Ahakhav Tribal Preserve	\$1,131,477	La Paz	Complete
39	96-0017	Big Sandy River Riparian Project	\$92,000	Mohave	Complete
40	96-0018	San Carlos Spring Protection Project	\$131,540	Gila	Withdrawn
41	96-0019	Response of Bebb Willow to Riparian Restoration	\$33,752	Coconino	Complete
42	96-0020	Cienega Creek Stream Restoration	\$210,700	Pima	Complete
43	96-0021	Riparian Vegetation and Stream Channel Changes Associated with Water Management along the Bill Williams River	\$14,788	Mohave	Complete
44	96-0022	Saffell Canyon and Murray Basin Watershed Restoration Project	\$24,316	Apache	Complete
45	96-0023	Watershed Restoration at the Yuma Conservation Gardens	\$31,050	Yuma	Complete
46	96-0025	Tsaile Creek Watershed Restoration Demonstration	\$152,775	Apache	Complete
47	96-0026	Riparian Restoration on the San Xavier Indian Reservation Community	\$591,319	Pima	Complete
48	97-027	Lyle Canyon Allotment Riparian Area Restoration Project	\$60,359	Cochise	Complete
49	97-028	Creation of a Reference Riparian Area in the Gila Valley – Discovery Park	\$182,000	Graham	Complete
50	97-029	Demonstration Enhancement of Riparian Zone and Stream Channel along stretch of Pueblo Colorado Wash at Hubbell Trading Post	\$91,110	Apache	Complete
51	97-030	Walnut Creek Center for Education and Research - Biological Inventory	\$50,580	Yavapai	Complete
52	97-031	Lincoln Park Riparian Habitat Project (a.k.a. Atturbury Wash Project)	\$154,580	Pima	Complete
53	97-032	'Ahakhav Tribal Preserve - Deer Island Revegetation	\$228,800	La Paz	Complete
54	97-033	Proctor Vegetation Modification	\$11,487	Pima	Complete
55	97-034	Oak Tree Gully Stabilization	\$42,491	Pima	Complete
56	97-035	Watershed Improvement to Restore Riparian & Aquatic Habitat on the Muleshoe Ranch CMA	\$128,315	Cochise	Complete
57	97-036	Stable Isotopes as Tracers of Water Quality Constituents in the Upper Gila River	\$27,338	Graham	Complete
58	97-037	Talastima (Blue Canyon) Watershed Restoration Project	\$310,192	Coconino	Complete
59	97-038	Tres Rios Wetlands Heavy-Metal Bioavailability and Denitrification Investigation	\$117,028	Maricopa	Complete
60	97-040	Bingham Cienega Riparian Restoration Project	\$84,679	Pima	Complete
61	97-041	Altar Valley Watershed Resource Assessment	\$88,730	Pima	Complete
62	97-042	Queen Creek Restoration & Management Plan	\$207,595	Pinal	Complete
63	97-044	San Pedro River Preserve Riparian Habitat Restoration Project	\$336,127	Pinal	Complete
64	97-045	Santa Cruz Headwaters Project	\$100,445	Santa Cruz	Complete
65	98-046	EC Bar Ranch Water Well Project	\$20,300	Apache	Complete
66	98-047	Upper Verde Adaptive Management Unit	\$115,300	Yavapai	Complete
67	98-049	Empire/Cienega/Empirita Fencing Project	\$54,850	Pima	Complete
68	98-050	Watershed Restoration of a High-Elevation Riparian Community	\$304,775	Coconino	Complete
69	98-051	Evaluation of <i>Carex</i> Species for Use in Riparian Restoration	\$47,907	Coconino	Complete
70	98-052	Tritium as A Tracer of Groundwater Sources and Movement in The Upper Gila River Drainage	\$41,028	Graham	Complete
71	98-054	Fluvial Geomorphology Study and Demonstration Projects to Enhance and Restore Riparian Habitat on The Gila River from The New Mexico Border	\$449,872	Graham	Complete
72	98-055	Horseshoe Allotment: Verde Riparian Project II	\$82,561	Yavapai	Complete

Map #	Grant #	Project Title	Grant Amount	County	Project Status
73	98-057	Upper Verde Valley Riparian Area Historical Analysis	\$44,019	Yavapai	Complete
74	98-058	Effects of Removal of Livestock Grazing on Riparian Vegetation and Channel Conditions of Selected Reaches of the Upper Verde River	\$116,500	Yavapai	Terminated
75	98-059	Verde River Headwaters Riparian Restoration Demonstration Project	\$204,629	Coconino	Complete
76	98-061	Watershed Enhancement on the Antelope Allotment	\$137,307	Mohave	Complete
77	98-062	Partnership for Riparian Conservation in Northeastern Pima County II	\$54,734	Pima	Complete
78	98-066	Hay Mountain Watershed Rehabilitation	\$116,525	Cochise	Complete
79	99-067	EC Bar Ranch Wildlife Drinker Project	\$30,500	Apache	Complete
80	99-068	Lower Cienega Creek Restoration Evaluation Project	\$83,272	Pima	Complete
81	99-069	Riparian and Watershed Enhancements on the A7 Ranch - Lower San Pedro River	\$521,197	Cochise	Complete
82	99-070	Lyle Canyon Allotment Riparian Area Restoration Project --- Phase 2	\$214,211	Santa Cruz	Complete
83	99-071	Protection of Spring and Seep Resources of The South Rim, Grand Canyon National Park by Measuring Water Quality, Flow and Associated Biota	\$238,953	Coconino	Complete
84	99-072	Leopard Frog Habitat and Population Conservation at Buenos Aires National Wildlife Refuge	\$120,485	Pima	Terminated
85	99-073	Colorado River Nature Center Backwater ---- Phase 2	\$41,500	Mohave	Complete
86	99-074	Proposal to Inventory, Assess and Recommend Recovery Priorities for Arizona Strip Springs, Seeps and Natural Ponds	\$101,856	Coconino	Complete
87	99-075	Glen and Grand Canyon Riparian Restoration Project	\$371,285	Coconino	Complete
88	99-076	Watson Woods Preserve Herpetological Interpretive Guide and Checklist	\$31,255	Yavapai	Complete
89	99-077	Blue Box Crossing	\$150,000	Greenlee	Complete
90	99-078	Aquifer Framework and Ground-Water Flow Paths in Big and Little Chino Basins	\$188,140	Yavapai	Complete
91	99-079	Little Colorado River Riparian Restoration Project	\$404,587	Apache	Complete
92	99-080	Cortaro Mesquite Bosque	\$486,650	Pima	Terminated
93	99-083	Cherry Creek Enhancement Demonstration Project	\$263,225	Gila	Complete
94	99-084	Assessments of Riparian Zones in the Little Colorado River Watershed	\$79,443	Navajo	Complete
95	99-085	Kirkland Creek Watershed Resource Assessment	\$131,430	Yavapai	Complete
96	99-086	Abandonment of Gila Oil Syndicate Well #1	\$333,790	Graham	Complete
97	99-087	Rillito Creek Habitat Restoration Project	\$293,000	Pima	Withdrawn
98	99-088	Wickenburg High School Stream Habitat Creation	\$69,100	Maricopa	Complete
99	99-089	Town of Eagar/Round Valley Water Users Association Pressure Irrigation Feasibility Study & Preliminary Design	\$320,540	Apache	Complete
100	99-090	Redrock Riparian Improvement	\$62,350	Santa Cruz	Terminated
101	99-091	Effects of Livestock Use Levels on Riparian Trees on the Verde River	\$41,417	Yavapai	Complete
102	99-092	Little Colorado River Enhancement Demonstration Project	\$348,627	Apache	Complete
103	99-093	Coconino Plateau Regional Water Study	\$134,200	Coconino	Complete
104	99-094	Santa Cruz River Park Extension	\$434,684	Pima	Withdrawn
105	99-095	Brown Creek Riparian Restoration	\$34,037	Apache	Complete
106	99-096	Upper Santa Cruz Watershed Restoration	\$184,950	Santa Cruz	Withdrawn

Map #	Grant #	Project Title	Grant Amount	County	Project Status
107	99-097	Dakini Valley Riparian Project	\$66,130	Gila	Terminated
108	99-098	Rio Salado Habitat Restoration Project	\$950,408	Maricopa	Complete
109	00-099	Gila Reference Riparian Area, Discovery Park	\$152,850	Graham	Withdrawn
110	00-100	Willow Creek Riparian Restoration Project	\$33,480	Mohave	Complete
111	00-101	Murray Basin and Saffell Canyon Watershed Restoration Project	\$260,727	Apache	Complete
112	00-102	Upper Eagle Creek Restoration on East Eagle Allotment of Four Drag Ranch	\$66,330	Greenlee	Complete
113	00-103	Riparian Restoration on the Santa Cruz River - Santa Fe Ranch	\$49,008	Santa Cruz	Complete
114	00-104	Continued Enhancement of Pueblo Colorado Wash at Hubbell Trading Post National Historic Site	\$69,349	Apache	Complete
115	00-105	Hubbell Trading Post Riparian Restoration with Treated Effluent	\$81,951	Apache	Complete
116	00-106	Tres Alamos Ranch Dirt-Tanks-To-Aquatic-Habitat Conversion	\$69,220	Yavapai	Complete
117	00-108	Lake Mary Watershed Streams Restoration Project	\$253,119	Coconino	Complete
118	00-109	Lower San Pedro Watershed Project	\$249,871	Pima	Complete
119	00-110	Upper Fairchild Draw Riparian Restoration	\$35,515	Coconino	Complete
120	00-111	Cooperative Grazing Management for Riparian Improvement on the San Pedro	\$228,701	Pinal	Complete
121	00-112	Town of Eagar/Round Valley Water Users Assoc. - Additional Mapping for Water Quality Improvements in the Watershed	\$151,829	Apache	Complete
122	00-113	Polacca Wash Grazing Management	\$267,511	Navajo	Terminated
123	00-114	The Papago Park Green Line Project	\$229,152	Maricopa	Complete
124	00-115	Tucson Audubon Society North Simpson Farm Riparian Recovery Project	\$127,409	Pima	Complete
125	03-116	Cottonwood Creek Restoration	\$185,772	Cochise	Complete
126	03-117	Lynx Creek Restoration at Sediment Trap #2	\$179,771	Yavapai	Complete
127	03-118	Verde River Riparian Area Partnership Project	\$111,221	Yavapai	Withdrawn
128	03-119	Wet Meadows for Water Quality and Wildlife - A Riparian Restoration Project	\$137,027	Apache	Complete
129	04-120	Verde Headwaters 3-D Hydrogeological Model Framework and Visualization	\$46,634	Yavapai	Complete
130	04-121	Lynx Creek Restoration	\$266,020	Yavapai	Complete
131	04-122	Watson Woods Riparian Preserve Restoration Feasibility Project	\$183,523	Yavapai	Complete
132	04-123	Tucson Audubon Society, Santa Cruz River Habitat Project, North Simpson Site, Phase 2	\$130,786	Pima	Complete
133	04-124	Yuma East Wetlands Riparian Revegetation Project	\$285,878	Yuma	Complete
134	05-125	Wilkins' Family Little Colorado River Riparian Enhancement Project	\$293,618	Apache	Complete
135	05-126	X Diamond Ranch LCR Riparian Enhancement Project	\$352,119	Apache	Complete
136	05-127	EC Bar Ranch Reach 8 Water Well and Drinker Project	\$22,235	Apache	Complete
137	05-128	Canyon Creek Riparian Restoration Project, Reach 4-5	\$106,919	Gila	Complete
138	05-129	Georges Lake Riparian Restoration Project	\$168,636	Apache	Complete
139	05-130	Riparian Restoration on the San Xavier District - Project Two	\$36,353	Pima	Complete
140	05-131	Management & Control of Tamarisk and Other Invasive Vegetation at Backcountry Seeps, Springs and Tributaries in Grand Canyon National Park	\$245,500	Coconino	Complete
141	05-132	Esperanza Ranch Riparian Restoration Project	\$279,411	Santa Cruz	Complete

Map #	Grant #	Project Title	Grant Amount	County	Project Status
142	05-133	Verde Wild and Scenic River Fence Exclosure	\$63,888	Yavapai	Complete
143	05-134	Quechan Indian Nation Yuma East Wetlands Restoration Project - Phase I	\$263,803	Yuma	Complete
144	06-135	Double Circle Ranch Riparian Fencing Project	\$84,448	Greenlee	Complete
145	06-136	The Arboretum at Flagstaff Wetland Habitat Enhancement	\$116,000	Coconino	Complete
146	06-137	Pakoon Springs Restoration Design and Implementation Project	\$262,103	Mohave	Complete
147	06-138	Management and Control of Tamarisk and Other Invasive Vegetation at Backcountry Seeps, Springs, and Tributaries in Grand Canyon National Park - Second Year of Phase II	\$258,397	Coconino	Complete
148	06-139	Coal Mine Fence	\$187,013	Santa Cruz	Complete
149	06-140	Yuma Crossing National Heritage Area Yuma East Wetlands Restoration Project - Phase I	\$256,790	Yuma	Complete
150	07-141	Picture Canyon Rio De Flag Meander Restoration Project	\$330,225	Coconino	Complete
151	07-142	Reduction of Erosion and Sedimentation along the Lower San Pedro River Through Hydrologic Restoration of Modified Ephemeral Washes	\$396,409	Pinal	Complete
152	07-143	Little Colorado River & Nutrioso Creek Riparian Enhancement Project	\$198,996	Apache	Complete
153	07-144	Evaluation of Riparian Habitat and Headcutting on Lower Cienega Creek	\$23,972	Pima	Complete
154	07-145	Kaler Ranch Erosion Control Project, Phase II	\$284,332	Greenlee	Complete
155	07-146	Little Colorado River Project on H-Y Ranch River Property	\$53,000	Navajo	Withdrawn
156	07-147	The Effects of Restoration on Wildlife Recovery at the Yuma East Wetlands Restoration Project	\$68,016	Yuma	Complete
157	07-148	South Channel Phase II Restoration Project	\$603,487	Yuma	Complete
158	07-149	Control of Tamarisk on 12 Miles of the Upper Verde River	\$366,390	Yavapai	Complete
159	07-150	Fairchild Draw Riparian Restoration Project	\$172,674	Coconino	Complete
160	08-151	Test of Riparian Recovery Following Cessation of Groundwater Pumping, Lower San Pedro	\$61,795	Pinal	Complete
161	08-152	AWPF Yuma East Wetlands 68-acre Riparian Revegetation	\$746,667	Yuma	Complete
162	08-153	The Effects of Restoration on Herpetofaunal and Mammalian Community Recovery	\$156,833	Yuma	Complete
163	08-154	Billy Creek Natural Area Riparian Restoration Project	\$248,826	Navajo	Complete
164	08-155	Restoration of the Gila River at Apache Grove	\$744,747	Greenlee	Complete
165	08-156	Cocopah Colorado River Restoration	\$296,708	Yuma	Complete
166	08-157	Paria River Exotic Removal Project - Phase I	\$293,960	Coconino	Complete
167	08-158	Watson Woods Riparian Preserve Restoration Project	\$798,988	Yavapai	Complete
168	08-159	Hoxworth Springs Stream Channel Restoration Project	\$142,543	Coconino	Complete
169	08-160	Atturbury Wash Riparian Stewardship Project	\$390,839	Pima	Complete
170	08-161	Montezuma Well Riparian Pasture Restoration Project	\$296,155	Yavapai	Complete
171	09-162	Middle Fossil Creek Riparian Habitat Protection and Restoration	\$250,348	Gila	Complete
172	09-163	Double Circle Ranch Erosion Control Project	\$35,356	Greenlee	Complete
173	09-164	Babocomari River Riparian Protection Project	\$118,125	Santa Cruz	Complete
174	09-165	Alpine Ranger District Riparian Improvement	\$372,579	Apache	Complete
175	09-166	Hunter's Hole Riparian and Wetland Restoration Project	\$683,345	Yuma	Complete
176	09-167	Tavasci Marsh Wetland Restoration Project	\$374,838	Yavapai	Terminated
177	09-169	Gila River Water Conservation Education Program	\$148,612	Graham	Complete
178	09-171	Black Canyon Riparian Restoration Project	\$291,700	Yavapai	Complete

Map #	Grant #	Project Title	Grant Amount	County	Project Status
179	11-172	Avifaunal and Butterfly (Lepidoptera) Recovery in Restored Wetland and Riparian Habitats	\$100,758	Yuma	Complete
180	11-173	Invasive Weed Control - Gila River Corridor, Greenlee County	\$261,995	Greenlee	Complete
181	11-174	Eagle Creek Riparian Restoration at Filleman Crossing	\$265,776	Greenlee	Withdrawn
182	11-175	E. Coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase II	\$137,594	Greenlee	Complete
183	11-176	Double Circle Ranch Erosion Control Project Phase II	\$36,866	Greenlee	Complete
184	11-177	Eagle Creek Riparian Protection Project	\$136,714	Greenlee	Complete
185	11-179	Inventory of Tamarisk Leaf Beetle and Effects on Riparian Habitat in the Colorado, Verde, Salt and Tonto Rivers	\$141,972	Coconino	Complete
186	11-180	Pakoon Wash and Pakoon Springs Restoration and Enhancement Project	\$306,353	Mohave	Complete
187	11-181	Hidden Slough and Leopard Frog Marsh Restoration in Glen Canyon National Recreation Area , AZ	\$348,901	Mohave	Complete
188	14-182	Arundo Eradication & Riparian Restoration of Sabino and Bear Creek, Tucson, AZ	\$51,262	Pima	Active
189	14-183	Menges Ranch Water System Maintenance Project	\$28,546	Greenlee / Graham	Withdrawn
190	14-184	Date Creek Riparian Restoration Project	\$147,877	Yavapai	Withdrawn
191	14-185	Horseshoe Draw Flood Control, Restoration and Erosion Mitigation Study and Design Project	\$198,625	Cochise	Complete
192	15-186	Phase Two Gila River Corridor Invasive Weed Control	\$133,338	Greenlee / Graham	Complete
193	15-187	Upper Verde River Habitat Improvement Project	\$169,325	Yavapai	Complete
194	17-188	A&NC Focal Area Watershed Improvement Project	\$303,975	Apache	Active
195	17-189	Erosion Control to Stabilize Soils and Restore Historic Grasslands in the Upper Verde River Watershed	\$138,183	Yavapai	Active
196	17-190	River Restoration through Hazardous Fuels and Invasive Species Removal	\$94,903	Graham	Active
197	17-191	Verde River Habitat Improvement Project	\$246,448	Yavapai	Active
198	17-192	Lower Verde River Riparian Restoration Project	\$113,896	Maricopa	Active
199	19-193	Verde River-Oak Creek Confluence Habitat Improvement Project	\$292,451	Yavapai	Active
200	19-194	Davis Cattle Co. Grassland Restoration	\$341,626	Cochise	Active
201	19-195	Gila Valley Irrigation District Rapid Appraisal for Modernization	\$32,982	Graham	Active
202	19-196	Do Native Fish Facilitate the Persistence of Endangered Spikedace by Resuspending Food Particles	\$32,496	Greenlee	N/A
203	19-197	Bill Williams Mountain Forest and Watershed Restoration Project	\$315,000	Coconino	Active
204	19-198	Granite Creek Corridor Enhancement Master Plan	\$79,401	Yavapai	Active
205	19-199	Headwater Stream Restoration: Coyote Springs, Museum of Northern Arizona, Flagstaff	\$31,846	Coconino	N/A
206	19-200	American Gulch Channel and Riparian Enhancement	\$202,556	Gila	Active
207	19-201	Webber Creek Sediment Control Project	\$166,057	Gila	N/A

NOTE: The “Grant Amount” column represents the full grant awarded for each project. Some grants have been completed for less money than the amount budgeted, while others have been withdrawn by the grantee or terminated by the Commission prior to expenditure of funds or expenditure of the full grant amount. This column has not been changed to reflect these situations.

APPENDIX B: FINANCIAL STATEMENT

ARIZONA WATER PROTECTION FUND

Combined Statement of Receipts, Expenditures, and Fund Balance
For the Fiscal Year Ending June 30, 2019
(000's Omitted)

Fund Balance as of July 1, 2018	<u>\$ 2,543</u>
<u>Receipts</u>	
Investment Income	\$ 56
Interstate Water Sales (In-Lieu Fees)	\$ -
Receipts and Donations	\$ 650
Administrative Transfers In	\$ 98
Total - Receipts	<u>\$ 804</u>
<u>Expenditures</u>	
ADWR Support	\$ 163
ASLD Support	
Commission Expenses	\$ -
Grant Disbursements	\$ 400
Administrative Transfers Out	\$ 98
Total - Expenditures	<u>\$ 661</u>
<u>Fund Balance</u>	<u>\$ 2,686</u>
Less: Remaining Grant Obligations	<u>\$ (1,894)</u>
Uncommitted Fund Balance - June 30,2019	<u>\$ 792</u>
<u>Accounts - Uncommitted</u>	
Grant Funds	\$ 785
Administration Expenses	\$ 7
Total - Account Balance	<u>\$ 792</u>