



**Fiscal Year 2021  
Annual Report**

**Commission Members**

Pat Jacobs, Chairman  
Rodney Held, Vice Chairman  
Brian Biesemeyer  
Shelley Blackmore  
Paul Brick  
Lucinda Earven  
William Schock  
Stephen Turcotte

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**Arizona Water Protection Fund Commission**

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**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

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July 1, 2021

Honorable Douglas A. Ducey  
Governor of Arizona, and

Honorable Members  
Arizona State Legislature

I am pleased to submit to you the Fiscal Year 2021 Annual Report of the Arizona Water Protection Fund Commission (Commission). This report provides an overview of program accomplishments from July 1, 2020 through June 30, 2021.

This was the 26<sup>th</sup> 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 Arizona's water resources. Although the Commission was not able to offer a grant cycle in Fiscal Year 2021, 18 grant award projects continued to be implemented across the State. These projects included soil erosion control, non-native invasive vegetation removal, restoring stream and riparian habitats, and forest thinning to reduce high hazard fuels and improve watershed resources.

To date, the Commission has awarded 237 grants totaling over \$47 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 623-869-2506 if I can answer any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Pat Jacobs".

Pat Jacobs  
Chairman

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# EXECUTIVE SUMMARY

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From 1995 to 2021, the Arizona Water Protection Fund Commission (Commission) has supported 237 projects and awarded more than \$47 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 Arizona Water Protection Fund (AWPF) projects.

The Water Protection Fund balance on July 1, 2020 was \$3,387,615. Deposits into the fund for Fiscal Year (FY) 2021 included a \$250,000 appropriation from the General Fund in the Arizona Department of Water Resources budget. The fund balance as of June 30, 2021 was \$2,138,112.

At the beginning of FY 2021, 15 AWPF grant projects were being implemented across the State and three FY 2020 grant award contracts were in negotiation. Although the AWPF was appropriated \$250,000 for FY 2021, the Commission ultimately decided to not move forward with a grant cycle based on the limited amount of unobligated funds that would be available for new grants. One grant award contract was terminated, and five projects were closed out within the fiscal year in Cochise, Gila, Maricopa, Yavapai (2) Counties.

At the end of FY 2021 there were 12 active grants projects in Cochise, Coconino (4), Graham, Gila (2), Maricopa, Pinal, and Yavapai Counties, and one being implemented statewide. These projects are focused on implementing water conservation measures, enhancing degraded stream and spring resources, conducting scientific research, and the treatment of upland and invasive vegetation for overall watershed improvement and health.

During the fiscal year three new appointments were made to AWPF Commission, and three Commission members were re-appointed in their current capacities. The AWPF Commission included a total of 12 members at the end of FY 2021, with one vacancy.

# ARIZONA WATER PROTECTION FUND

## CREATION AND PURPOSE

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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

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### Arizona Water Protection Fund Commission

The 13-member Commission is the main policy making body for the AWPF. The Commission is composed 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.

During Fiscal Year (FY) 2021 the AWPF Commission held four business meetings, which also included one meeting of the Executive Committee which had not been active since 2014. Due to federal, state, and local protocols related to COVID-19, all Commission meetings in FY 2021 were held virtually.

This fiscal year included both new appointments and re-appointments in Commission membership. Commissioner Shelley Blackmore, affiliated with the Triangle Natural Resource Conservation District, was appointed in September 2020 following the resignation of Commissioner Michael Macauley. Commissioner Stephen Turcotte, affiliated with the Winkelman Natural Resource Conservation District, was appointed in October 2020 to succeed Commissioner Roy Pierpoint whose official appointment term was expired. Commissioner Brian

K. Biesemeyer, affiliated with the City of Scottsdale, was appointed in February 2021 to fill the vacancy following the resignation of Commissioner Mark Holmes in 2018.

Commission Chairman Pat Jacobs was re-appointed in February 2021 to continue serving in his current capacity through December 2022. Commission Vice-Chairman Rodney Held was re-appointed in February 2021 to continue serving in his current capacity through June 2023. Commissioner William Schock was re-appointed in February 2021 to continue serving in his current capacity through June 2022. A list of current Commission members and vacancies as of June 30, 2021 is provided in Table 1.

### 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 2021 included the Executive Director and ADWR legal counsel, with administrative support provided by the ADWR legal division.

## **FISCAL YEAR 2021 ACCOMPLISHMENTS**

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At the beginning of FY 2021, 15 AWPf grant projects were being implemented across the State and three FY 2020 grant award contracts were in negotiation. Although the AWPf was appropriated \$250,000 for FY 2021, the Commission ultimately decided to not move forward with a grant cycle based on the limited amount of unobligated funds that would be available for grants. Throughout the fiscal year AWPf staff continued to provide technical support to current AWPf grantees through the administration and project management of 18 grant award projects. One grant award contract was terminated, and five projects were closed out in FY 2021 and are identified below.

Other activities completed by staff included coordination with appointing officials on filling AWPf Commission member vacancies; responding to public records requests pertaining to the AWPf program; continued updates and maintenance of the AWPf program website; initiating the ADWR's data quality assessment initiative for the AWPf program; coordinating Open Meeting Law training for AWPf staff and Commission; serving as a technical reviewer for the Department of Forestry and Fire Management's 2020 Invasive Plant Grant applications; serving as a technical reviewer for ADWR's 2020 Groundwater Conservation Grant applications; participating in the Arizona Cross Watershed Network steering committee; drafting ADWR's Watershed Improvement Program annual report; and beginning the transition to an electronic grant application submittal process via the eCivis grant management system for future grant cycles.

AWPf staff and Commission members were able to adapt to social distancing guidelines and operating in the virtual meeting environment, with business activities accomplished through the State of Arizona and ADWR's support of teleworking opportunities and Webex virtual meetings.

**Table 1. Arizona Protection Fund Commission Members as of June 30, 2021.**

<b>Commission Member / Affiliation</b>	<b>Statutory Category Represented</b>	<b>Appointing Authority</b>
<b>Pat Jacobs*</b> Central Arizona Project	Multi-County Water Conservation District	District Governing Board
<b>Rodney J. Held**</b> Salt River Project	Agricultural Improvement District	Governor
<b>Brian K. Biesemeyer</b> City of Scottsdale	Member of the Public – B.S.in Hydrology – City Served by the Central Arizona Project	Governor
<b>Shelley Blackmore</b> Triangle Natural Resource Conservation District	Natural Resource Conservation District	Senate President
<b>Harold Paul Brick</b> San Pedro Natural Resource Conservation District	Natural Resource Conservation District	Senate President
<b>Lucinda Earven</b> Hereford Natural Resource Conservation District	Natural Resource Conservation District	Speaker of the House of Representatives
<b>William Schock</b> Santa Cruz Natural Resource Conservation District	State Association of Natural Resource Conservation Districts	Governor
<b>Stephen Turcotte</b> Winkelman Natural Resource Conservation District	Natural Resource Conservation District	Speaker of the House of Representatives
<b>VACANT</b>	Indian Tribe	Inter Tribal Council of Arizona
<b>Thomas Buschatzke</b> <b>Director</b> Department of Water Resources	Non-voting Ex Officio Member	Arizona Revised Statutes § 45-2103(A)(7)
<b>Lisa Atkins</b> <b>State Land Commissioner</b> State Land Department	Non-voting Ex Officio Member	Arizona Revised Statutes § 45-2103 (A)(7)
<b>The Honorable Sine Kerr</b> AZ Senate	Non-voting Advisory Member	Senate President
<b>The Honorable David L. Cook</b> AZ House of Representatives	Non-voting Advisory Member	Speaker of the House of Representatives

\*Chair, \*\*Vice-Chair



## Grant Projects Completed in Fiscal Year 2021

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

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
195	Town of Prescott Valley	Yavapai	\$138,183	September 30, 2020

#### **Project Description:**

The project area encompassed approximately 1,940 acres on private and leased State Trust lands of the York-Kenson Ranch, and demonstrated how landscape management could stabilize soils, increase the opportunity for aquifer recharge, and restore historic grasslands through a combination of vegetation treatments and the installation of erosion control structures. Historically, thinning projects have resulted in cut pinion-juniper material left in-situ to decompose or burned on site. This project utilized the thinned, low-value woody biomass as the basis for engineered silt dam erosion control structures to stabilize soils in eroded gullies and upland areas.

### **17-192WPF: Lower Verde River Riparian Restoration Project**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
198	Ft. McDowell Yavapai Nation	Maricopa	\$134,571	October 31, 2020

#### **Project Description:**

This project was located along the Lower Verde River within the boundaries of the Fort McDowell Yavapai Nation (FMYN), and continued 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 were 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 FMYN to encourage environmental stewardship. The FMYN removed invasive vegetation including giant reed, salt cedar, and tree tobacco; developed a manual to guide future restoration efforts on the FMYN ; and developed and implemented a restoration plan for a 30-acre pilot project site. Following restoration activities, monitoring of invasive plant treatments and restoration efforts were completed to assess the success of the treatments and pilot project site revegetation efforts.

### **19-198WPF: Granite Creek Corridor Enhancement Master Plan**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
204	City of Prescott	Yavapai	\$79,401	October 31, 2020

#### **Project Description:**

The purpose of this project was to develop a community-supported master plan for the enhancement of Granite Creek through downtown Prescott. Prior to development of plans for capital improvements, the City of Prescott (City) engaged the stakeholders to educate them about the physical and ecological potential of the creek. The City conducted an ecological site



assessment and then developed draft concepts for stream channel and habitat enhancements. The City then held a series of stakeholder meetings to gather input on the conceptual plans, and other amenities and infrastructure needs from local businesses and the community. This input was then incorporated into the development of a data-driven master plan that intends to increase stream function and associated riparian habitat, while increasing green space connectivity along 1.2-miles of Granite Creek.

#### **19-200WPF: American Gulch Channel and Riparian Enhancement**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
206	Town of Payson	Gila	\$202,556	November 30, 2020

#### **Project Description:**

The project restored a channelized section of American Gulch (a major drainage through the Town of Payson, AZ) through the use natural channel design principles in order to improve riparian habitat within the channel while retaining flood control functions. The project was designed to construct a more natural, stable bankfull (low flow) channel in the bottom of the existing channel and included stabilization structures, including rock cross-vane weirs, rock vanes, toe rock, TRM (turf reinforced matt) and larger natural substrate material. The design utilized three rock cross-vane weirs to provide grade control, five rock vanes with toe rock to provide bank protection, and riprap for culvert outlet protection. The project area was approximately 1,000 feet long and construction took place entirely within the existing channel except for additional native plantings along the edge of the channel and around the urban trail. The entire site, including all disturbed areas, were revegetated with native grasses, forbs, and native trees and shrubs along the banks.

#### **20-203WPF: Sandhill Farm Water and Wildlife Conservation Project**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
209	Sandhill Farm, L.L.C.	Cochise	\$35,254	April 30, 2021

#### **Project Description:**

To enhance and continue conservation efforts on Sandhill Farm, the Sandhill Farm, L.L.C retrofitted an existing domestic well with a solar submersible pump, and connected the domestic well to the pipeline of an existing irrigation well. This provided a year-round water source to keep seasonal wetland ponds filled with water for wildlife and livestock, and will help maintain native willow trees planted for Southwestern Willow Flycatchers. Fencing was also constructed to protect the new solar panels and all disturbed areas were seeded with a native seed mix.

## Active Grant Projects in Fiscal Year 2021

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

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
199	Friends of the Verde River	Yavapai	\$292,451	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 and will be implemented 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, initially treat 16 acres of high-density invasive plants, and re-treat 77 acres of invasive plants. The Grantee will also plan and implement volunteer events in coordination with the Coconino National Forest to engage the community in stewardship activities.

### **19-194WPF: Davis Cattle Co. Grassland Restoration**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
200	Arizona Association of Conservation Districts	Cochise	\$341,626	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 AWPf 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.

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

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
203	National Forest Foundation	Coconino	\$315,000	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 will be removed from these slopes, and woody biomass will either be 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.

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

Map #	Grantee	County	AWPF Funding	Contract Expiration Date
205	Museum of Northern Arizona / Springs Stewardship	Coconino	\$31,846	December 31, 2023

**Project Description:**

The Springs Stewardship Institute plans 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 one 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](http://springstewardship.org)).

**19-201WPF: Webber Creek Sediment Control Project**

Map #	Grantee	County	AWPF Funding	Contract Expiration Date
207	Boy Scouts of America - Grand Canyon Council	Gila	\$166,057.50	January 31, 2024

**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 Webber Creek will be reduced by the construction of 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.

#### **20-202WPF: Gila Valley Irrigation District System Optimization Phase I**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
208	Gila Valley Irrigation District	Graham	\$257,775	September 30, 2023

#### **Project Description:**

The Gila Valley Irrigation District (GVID) will modernize the lateral gate water delivery system on three of its canals: Union, Smithville, and Dodge-Nevada, to increase on-farm irrigation efficiency and improve environmental flow conditions. The specific objective of the project is to implement improvements on 156 lateral gates along the three canals to provide improved sediment and water level control, flow control, and flow measurement. The modernization of these canal delivery systems will allow for future canal automation projects and on-farm water conservation projects that may have the potential to improve water quality in the Gila River. The project intends to improve the Gila Valley Irrigation District's operational efficiency and available flows at turnouts for on-farm deliveries, increase the efficiency of individual irrigators, and conserve water for downstream users.

#### **20-204WPF: Winkelman Natural Resource Conservation District Riparian Restoration**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
210	Winkelman Natural Resources Conservation District	Pinal	\$205,844	December 31, 2022

#### **Project Description:**

The Winkelman Natural Resource Conservation District (WNRCD) will 1) remove tamarisk along the Gila River on approximately 17 acres of the General Kearny Sheriff's Mounted Posse of Pinal County property; 2) remove tamarisk along the Gila River on approximately three acres of the DuBoise Ranch private property; 3) revegetate approximately 105 acre riparian corridor on Town of Kearny property where tamarisk is currently being removed by other project partners, and 4) create a Tamarisk Management Plan for the WNRCD outlining future tamarisk treatment methods, priority restoration sites, revegetation goals, and monitoring. All three project areas to be restored as part of the grant will be revegetated with native trees and shrubs, monitored, and re-treated for tamarisk as necessary for the duration of the project. Long-term maintenance of these three restoration sites and future projects will be outlined in the WNRCD Tamarisk Management Plan.

#### **20-205WPF: Upper, Middle, and Lower Fossil Creek Invasive Plant Removal**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
211	National Forest Foundation	Gila	\$98,662	July 31, 2023

**Project Description:**

The project area spans a total of approximately 1,300 riparian acres on both sides of Fossil Creek within a 16.8-mile river reach located from lower Fossil Creek to the springs on Coconino and Tonto National Forest lands. Within all three reaches of the Wild & Scenic Fossil Creek, the National Forest Foundation and the Friends of the Verde River will partner to implement an invasive species management project focusing on monitoring and treatment of invasive plant species in the middle and lower reaches of Fossil Creek, including tamarisk, Tree of Heaven, giant reed, and Russian olive. In the upper reach, a pilot project consisting of monitoring and treatment of Himalayan blackberry will also be implemented. The overall goals for invasive plant species removal are to eliminate Russian olive and giant reed, and manage tamarisk and Tree of Heaven to less than 10% cover in the riparian corridor.

**20-206WPF: Quantifying Benefits for Brush Management on Arizona Rangelands**

Map #	Grantee	County	AWPF Funding	Contract Expiration Date
212	Arizona Association of Conservation Districts	Statewide	\$50,000	April 30, 2024

**Project Description:**

The purpose of this project is to gather and summarize existing information on brush management, and to incorporate available localized on-the-ground data to provide better information on why, where, how, and when brush management should be done to improve the cost-effectiveness of these practices. The overall goal of this research project is to provide local guidelines for the application of brush management to address rangeland resource concerns to improve the probability of success and thereby increase cost-effectiveness.

Project objectives include 1) creating an up-to-date summary of published reports and research on brush treatments in Arizona; 2) obtaining and summarizing available information and data on specific brush treatments applied in the past in Arizona, and then using this information to supplement published studies and/or to design follow up data collection and monitoring on these historical treatments; 3) conducting studies on existing brush treatments, either by repeating previous measurements or collecting and analyzing data on comparable treated/non-treated areas; 4) establishing monitoring studies on existing and new brush treatments in selected areas to establish treatment effectiveness and longevity, especially on species or land types for which little previous studies exist, and 5) training local producers and other interested stakeholders on methods of monitoring brush treatments so that future treatments can be more thoroughly documented.

**20-207WPF: Harrenburg Wash Enhancement Project**

Map #	Grantee	County	AWPF Funding	Contract Expiration Date
213	Coconino County Parks and Recreation	Coconino	\$129,190	December 31, 2025

**Project Description:**

Coconino Parks and Recreation will improve the stability, productivity, and habitat quality of Harrenburg Wash, just upstream from its confluence with Pumphouse Wash, both of which are in the Upper Verde River Watershed and are the headwaters of Oak Creek Canyon. The wash and associated wetland habitat have been impacted by several factors including the building, filling,

and partial breaching of an existing earthen dam and a relatively large pond that was constructed by a previous landowner and is now causing downstream channel erosion due to high water velocity; previous channel excavations that have initiated channel head cuts and created areas of excess flood plain fill; and the invasion of non-native weed species. To restore Harrenburg Wash the Grantee will implement stream channel improvements, invasive weed treatments, native plant revegetation, the clean-up and removal of debris and materials from the site, and the construction of a fence along the parking area boundary.

#### **20-208WPF: Paria Beach Riparian Restoration**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
214	Grand Canyon Wildlands Council	Coconino	\$187,699	November 30, 2023

#### **Project Description:**

The Grand Canyon Wildlands Council (GCWC) will complete tamarisk control and removal and undertake native phreatophyte revegetation on approximately 4 acres at the Paria Beach site along the Colorado River. GCWC will also assist the National Park Service (NPS) with developing a monitoring program, project site outreach, and curriculum for an onsite outdoor classroom. This project will also assist in further implementing Glen Canyon National Recreation Area's (GLCA) Colorado River Riparian Revegetation Plan. The proposed objectives for meeting the project goals are 1) assist GLCA staff ensure the sufficiency of GLCA riparian restoration guidance; 2) assemble, compile, and assess historic information to guide planning; 3) develop a prioritized restoration, maintenance, and monitoring plan for the site; 4) implement the restoration, maintenance, and monitoring plans; and 5) collaborate with GLCA to achieve effective on-site education and outreach. Ultimately, the project should further inform riparian revegetation in many other settings in the Southwest where tamarisk removal involves large stands, heavily impacted by tamarisk beetle.

#### **20-209WPF: Fort McDowell Yavapai Nation Lower Verde River Riparian Restoration Project**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>	<b>Contract Expiration Date</b>
215	Fort McDowell Yavapai Nation Environmental Department	Maricopa	\$237,246	November 30, 2022

#### **Project Description:**

The Fort McDowell Yavapai Nation (FMYN), Mariposa Ecological and Botanical Consulting, and Morning Dew Landscaping are partners in controlling invasive plant species along ten miles of the Verde River and restoring native vegetation to select areas. This project builds on the current AWPF grant 17-192WPF restoration project along the Lower Verde River and will provide resources to continue to work both up and downstream of the pilot project restoration site.

As part of this project the FMYN proposes to 1) continue to treat known and new populations of giant reed and tree tobacco along the Verde River for two more years; 2) develop invasive species removal & native plant enhancement plans for two new restoration projects; 3) retreat tamarisk in the FMYN pilot project site; 4) implement Phase 2 planting in the pilot project site; 5) conduct

initial tamarisk treatment in a new restoration site (Site RM 3.11R), and 6) implement a monitoring program in all restoration areas.

#### Grant Award Contracts Terminated in Fiscal Year 2021

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

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>
202	Arizona Board of Regents for and on behalf of Northern Arizona University	Greenlee	\$32,496

The Grantee was not able to implement the project due to personnel changes and other unforeseen circumstances due to the COVID-19 pandemic, and requested to withdraw the project and terminate the grant award contract. No work was completed on the project and no AWPf funds were expended.



# CONCLUSION

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From 1995 to 2021, the Arizona Water Protection Fund Commission has supported 237 projects and awarded over \$47 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 and watershed restoration, erosion control, conservation education, infrastructure improvements to benefit water conservation and wildlife habitat, 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 the program can be requested from ADWR via a [public records request](#).

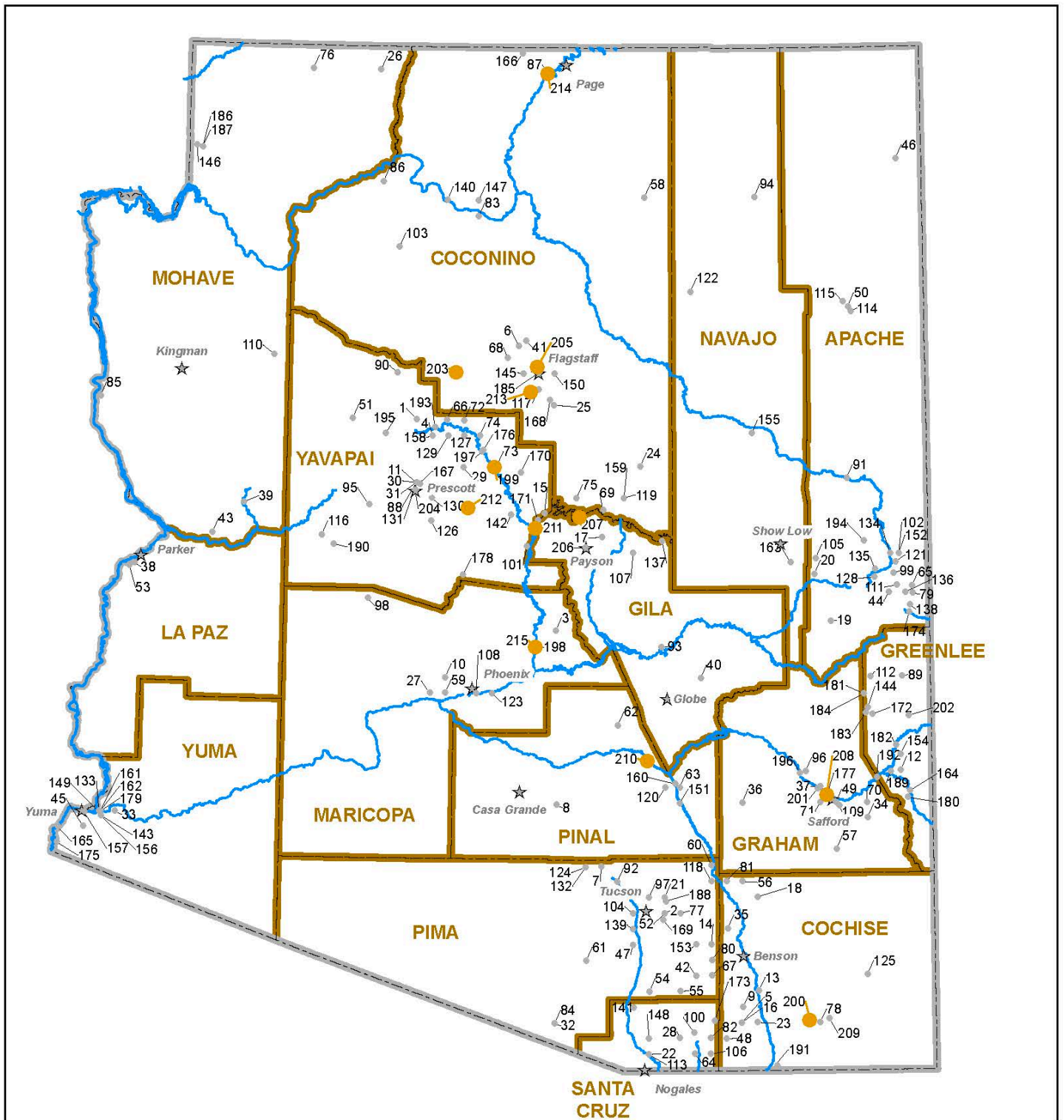
Although the AWPf was appropriated \$250,000 for FY 2021, the Commission ultimately decided to not move forward with a grant cycle based on the limited amount of unobligated funds that would be available for grants. However, AWPf staff continued to provide technical support to current AWPf grantees through the project management of 18 grant award projects during the fiscal year. A financial statement as of June 30, 2021 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, eco-tourism, 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 AWPF PROJECTS**

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The following map and list of AWPF projects contain a compilation of grant award projects from 1995 – 2020.



### AWPF Project Location\*

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

0 12.5 25 50 75 100 Miles



## Arizona Water Protection Fund Project Locations

\*See following map key for project descriptions

GIS Unit  
Created on May 24, 2021  
Location: U:\Workspaces\Director\WaterProtectionFund\Projects\AnnualReport\Maps\AWPFLocations2021.mxd

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	Complete
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	Complete
195	17-189	Erosion Control to Stabilize Soils and Restore Historic Grasslands in the Upper Verde River Watershed	\$138,183	Yavapai	Complete
196	17-190	River Restoration through Hazardous Fuels and Invasive Species Removal	\$94,903	Graham	Complete
197	17-191	Verde River Habitat Improvement Project	\$246,448	Yavapai	Complete
198	17-192	Lower Verde River Riparian Restoration Project	\$134,571	Maricopa	Complete
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	Complete
202	19-196	Do Native Fish Facilitate the Persistence of Endangered Spikedace by Resuspending Food Particles	\$32,496	Greenlee	Withdrawn
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	Complete
205	19-199	Headwater Stream Restoration: Coyote Springs, Museum of Northern Arizona, Flagstaff	\$31,846	Coconino	Active
206	19-200	American Gulch Channel and Riparian Enhancement	\$202,556	Gila	Complete
207	19-201	Webber Creek Sediment Control Project	\$166,057	Gila	Active
208	20-202	Gila Valley Irrigation District System Optimization Phase I	\$257,775	Graham	Active
209	20-203	Sandhill Farm Water and Wildlife Conservation Project	\$35,254	Cochise	Complete
210	20-204	Winkelman Natural Resource Conservation District Riparian Restoration	\$205,844	Pinal	Active
211	20-205	Upper, Middle, and Lower Fossil Creek Invasive Plant Removal	\$98,662	Gila	Active

Map #	Grant #	Project Title	Grant Amount	County	Project Status
212	20-206	Quantifying Benefits for Brush Management on Arizona Rangelands	\$50,000	Statewide	Active
213	20-207	Harrenburg Wash Enhancement Project	\$129,190	Coconino	Active
214	20-208	Paria Beach Riparian Restoration	\$187,699	Coconino	Active
215	20-209	Fort McDowell Yavapai Nation Lower Verde River Riparian Restoration Project	\$237,246	Maricopa	Active

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, 2021

(000's Omitted)

<b>Fund Balance as of July 1, 2020</b>	<b>\$ 3,428</b>
<b><u>Receipts</u></b>	
Interest Income	\$ 12
Interstate Water Sales (In-Lieu Fee Funds)	\$ -
Legislative Appropriations	\$ 250
<b>Total - Receipts</b>	<b>\$ 262</b>
<b><u>Expenditures</u></b>	
ADWR Support	\$ 175
Commission Expenses	
Grant Disbursements	\$ 1,377
<b>Total - Expenditures</b>	<b>\$ 1,552</b>
<b><u>Fund Balance</u></b>	<b>\$ 2,138</b>
Less: Remaining Grant Award Obligations	<b>\$ (1,362)</b>
<b>Uncommitted Fund Balance - June 30,2020</b>	<b>\$ 776</b>
<b><u>Accounts - Uncommitted</u></b>	
Grant Account	\$ 736
Administration Account	\$ 39
<b>Total - Account Balance</b>	<b>\$ 776</b>