

ARIZONA WATER  
PROTECTION FUND



PROTECTING ARIZONA'S  
RIVER & RIPARIAN  
RESOURCES

**ANNUAL REPORT**

**Fiscal Year 2011**

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## **Executive Summary**

The Arizona Legislature established the Arizona Water Protection Fund (AWPF) in 1994. The purpose of the AWPF is to provide monies for implementation of projects that will maintain, enhance and restore rivers, streams and associated riparian resources through a yearly competitive public grant process. The Arizona Water Protection Fund Commission (Commission), which oversees the AWPF, is comprised of 15 appointed citizen based voting members and 2 non-voting state agency members. Commissioners represent a variety of land, water use and riparian perspectives.

The Arizona Water Protection Fund was intended to be a proactive response to possible federal intervention in Arizona's river and riparian resource issues. The program was partially created to promote the use of incentives emphasizing local implementation rather than regulation to address resource concerns. As such, the Commission's philosophy has been to utilize a grass roots approach to improving river and riparian resources statewide. The program is operated through a competitive grant process that asks the public to propose local solutions rather than having the State dictate specific measures, priorities or areas of concern.

Rivers, streams and riparian areas are important resources to the people of Arizona. These resources have been significantly impacted from human uses such as industry, recreation and livestock grazing as well as from natural events such as floods, drought and fire. Proper land and watershed management strategies can make a profound difference in the health and economic value of our rivers and riparian ecosystems. The Commission has invested in 209 projects over the past sixteen years and contributed almost \$43 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 health. 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 projects.

The Commission held regular business meetings throughout the year. The Commission's FY 2011 grant cycle officially began on July 1, 2010. Staff held grant application workshops throughout the state. Staff also conducted pre-application consultations through August 27, 2010. The Commission received 19 grant applications totaling \$4,866,169 in requested funding. Ten grant applications totaling \$1,990,802 were approved by the Commission on January 10, 2011.

## **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 their policy was to provide for a coordinated effort for the restoration and conservation of the water resources of the state. The policy was designed to allow the people of Arizona to prosper while providing financial resources for protection and restoration of this State's rivers, streams and associated riparian habitats, including dependent fish and wildlife resources. The law mandates that financial resources be available through grants to appropriate public and private entities to assist in water resource management activities that are consistent with that policy (A.R.S. § 45-2101 (A)).

The primary purpose of the AWPF by statute 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, including fish and wildlife resources that are dependent on these important habitats, 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 man-made water resource project directly or indirectly benefits a river or stream and includes or creates a riparian habitat.

## **Program Organization**

### **Arizona Water Protection Fund Commission**

The Commission is the main policy making body for the AWPF. The Commission is comprised of 15 voting members who must be Arizona residents and are appointed by various officials who, by statute, represent a variety of land, water use and socioeconomic perspectives. In addition, several of the appointed positions require technical expertise in water, natural resources and riparian ecology. There also 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. A list of current Commissioners and vacancies is provided in Table 1.

### **Arizona Water Protection Fund Administration**

The Arizona Department of Water Resources (ADWR) provides the primary technical, legal and administrative staff to the Commission. The AWPF is managed by its Executive Director under the direction of the Commission. Current staffing includes an Executive Director, 1 part time Project Manager, and 1 part time Legal Counsel.

The Arizona State Land Department staff position (allowed by statute) that is to act as a special liaison to Natural Resource Conservation Districts has remained vacant.

**Table 1. Arizona Water Protection Fund Commissioners**

<b>Commission Member Name</b>	<b>Statutory Category Represented – Affiliation</b>	<b>Term Expires</b>	<b>Appointing Authority</b>
Bear, Raphael	(8) Indian Tribe – Fort McDowell Yavapai Nation	2010	Intertribal Council of Arizona
Bray, Timothy	(1) Multi-County Water Conservation District – Central Arizona Project (CAP)	2012	District Governing Board (CAWCD)
Brick, Harold Paul	(4) Natural Resource Conservation Districts – San Pedro Natural Resource Conservation District	2007	Governor
Keane, John	(7) Agricultural Improvement District w/ Natural Resource Expertise – Salt River Project	2008	Governor
Light, Marie*	(5) Member of Public – Hydrologist	2012	Senate President
Munderloh, John	(5) Member of Public & population of <500,000 – Town of Prescott Valley	2008	House Speaker
Olson, Steven**	(2) Municipality w/ CAP Subcontract & County w/ a population of >1.2 million – Arizona Municipal Water Users Association	2009	Governor
VACANT	(2) Municipality w/ CAP Subcontract & County w/ a population of <1,200,000 & >500,000		Senate President
VACANT	(2) Municipality w/ CAP Subcontract & County w/ a population of <500,000		House Speaker
VACANT	(3) Agriculture		House Speaker
VACANT	(5) Member of the Public (bachelors degree in scientific field of study)		Governor
VACANT	(5) Member of Public (bachelors degree in scientific field of study)		Senate President
VACANT	(6) Riparian Expertise & Recommended by an Environmental Organization		Governor
VACANT	(6) Riparian Expertise & Recommended by an Environmental Organization		Governor
VACANT	(9) Industrial Water User w/ CAP Subcontract		Governor
Fabritz-Whitney, Sandra	Non-Voting Ex Officio Member – Director, Department of Water Resources		Governor
Baier, Maria	Non-Voting Ex Officio Member – State Land Commissioner		Governor

\*Commission Chair

\*\*Commission Vice-Chair

### **Accomplishments FY 2011**

Arizona Water Protection Fund staff managed 30 active grant projects and provided technical assistance to grantees. Staff also participated in river and riparian habitat restoration workshops throughout the year. In addition, staff held grant application workshops throughout the state and conducted pre-application consultations with potential applicants for the FY 2011 grant cycle. Staff also provided the Commission with detailed grant application evaluations.

The Arizona Water Protection Fund Commission approved 10 of the 19 grant applications that it received for its FY 2011 grant cycle. To date, the Commission has invested in 209 projects and contributed almost \$43 million toward the restoration, protection and enhancement of river and riparian resources in Arizona. A wide range of projects have been funded including but not limited to channel restoration, riparian revegetation, wetland creation/restoration, fencing and other grazing management improvements, upland restoration, erosion control and applied ecological research. 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 health. In addition, important socioeconomic benefits such as employment opportunities and increased revenue streams are realized by many local communities through the implementation of Arizona Water Protection Fund projects. A complete list of projects and a location map are included in Appendix A.

### **FY 2011 Grant Awards**

#### **11-172WPF: Avifaunal and Butterfly (Lepidoptera) Recovery in Restored Wetland and Riparian Habitats**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>
182	Yuma Crossing National Heritage Area	Yuma	\$100,758.00

**Project Description:** The purpose of this research project is to compare avifaunal and butterfly community richness and abundance in restored versus control wetland and riparian habitats in the Yuma East Wetlands on the lower Colorado River. This project is intended to build upon previous research and provide detailed information on the breeding avifaunal and migrating and resident butterfly species present in the Yuma East Wetlands. This project is also intended to provide additional new information on the recovery of the avifaunal community and butterfly species in the project area. This project has the potential to further demonstrate that the goals and objectives of restoring over 350 acres of aquatic, wetland, and riparian habitats in the Yuma East Wetlands have been achieved.

**11-173WPF: Invasive Weed Control – Gila River Corridor, Greenlee County**

Map #	Grantee	County	AWPF Funding
183	Coronado Resource Conservation and Development Area	Greenlee	\$261,995.96

**Project Description:** The Gila River channel, riparian area and flood plain through Greenlee County have been invaded by Russian knapweed, Hoary cress, Yellow starthistle, Malta starthistle and Bull thistle. Once established, these invasive weeds can create monocultures that significantly alter ecosystems, which degrade wildlife habitat and agricultural lands. Funding for this project will be used to implement a highly aggressive integrated weed management program that will restore and protect thirty miles of the Gila River and its associated riparian habitat in Greenlee County.

The project will involve invasive weed surveys and mapping, purchase and application of appropriate herbicides (“Milestone” and “Habitat”), and annual monitoring to determine success of eradication efforts and retreatment needs. The project also will include outreach activities to landowners and the general public with the goal of establishing Early Detection – Rapid Response teams that will be key to long-term control through identification, tracking and trending of invasive weeds. This will allow the community to proactively respond and eradicate any further outbreaks. Lastly, the project will compliment efforts by the Southwest New Mexico Weed Management Area, which is implementing a similar effort on their side of the state line.

**11-174WPF: Eagle Creek Riparian Restoration at Filleman Crossing**

Map #	Grantee	County	AWPF Funding
184	Eagle Creek Riparian Restoration at Filleman Crossing	Greenlee	\$265,776.00

**Project Description:** This project will reduce downstream sedimentation and turbidity, and protect and enhance habitat for federally listed species by armoring a flood-prone road crossing located on the grantee’s private property along US Forest Service Road 217. Greenlee County has agreed, through an easement with the grantee, to maintain the crossing. In recent years the US Forest Service relocated most of the in-stream portion of the road crossing. The crossing is now much shorter, perpendicular to both banks, and typical of most stream crossings. Rock rip-rap, aggregate, geo-textile fabric, and gravel surfacing will be installed and compacted across the stream channel. In addition to containing native species, Eagle Creek at the project site is designated critical habitat for the Gila chub and the loach minnow.

**11-175WPF: E. Coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase III**

Map #	Grantee	County	AWPF Funding
185	Richard and Lois Kaler	Greenlee	\$137,594.43

**Project Description:** The Kaler Ranch has been the location of numerous grant projects, supported or administered by the Gila Watershed Partnership of Arizona, to protect the San Francisco River. These projects have made dramatic improvements in the river and riparian area by reducing erosion and sedimentation. The San Francisco River exceeds water quality standards for E. Coli and is listed on EPA's 303(d) List of impaired waters. The Gila Watershed Partnership of Arizona, along with county, state and federal partners, determined that possible causes of the E. Coli contamination were wildlife, humans (ineffective septic systems and lack of restroom facilities in recreation areas) and livestock. This grant will allow the Kalers to exclude their cattle permanently from the riparian area, thereby reducing E. Coli levels in the San Francisco River.

**11-176WPF: Double Circle Ranch Erosion Control Project, Phase II**

Map #	Grantee	County	AWPF Funding
186	Wilma Jenkins	Greenlee	\$36,866.60

**Project Description:** The Double Circle Ranch is a 37,000-acre ranch located in the Apache-Sitgreaves National Forest. The ranch unit has an eight mile boundary within Eagle Creek. Portions of Eagle Creek have been designated as critical habitat for the Loach minnow and Spikedace, two federally protected native fish. The Grantee has implemented many successful projects on their ranch, including two from the AWPf (one erosion control project - 09-163WPF and one fencing project – 06-135WPF).

This project is a continuation of work that is currently being implemented with AWPf funding on Grant Number 09-163WPF, and includes restoration of certain drainages that feed into Eagle Creek. By constructing small rock dams, media lunas, splash aprons, and armoring in eroding gullies to catch silt and soil, this project will reduce channel sediment loading, increasing vegetation, and improving channel characteristics of the upland drainages.



**11-177WPF: Eagle Creek Riparian Protection Grant Project**

Map #	Grantee	County	AWPF Funding
187	Darcy Ely	Greenlee	\$136,714.11

**Project Description:** The goal of this project is to protect and preserve water quality and quantity in Eagle Creek, and enhance the riparian corridor by replacement of the San Carlos Apache Reservation boundary fence. Historic livestock use in the Upper Eagle Creek watershed has degraded the upland watershed and associated stream channel and riparian conditions, and reduced the aquatic habitat of Eagle Creek and its upper tributaries. To protect and preserve Eagle Creek and its riparian corridor, the grantee will reconstruct five miles of boundary fence on the 4-Drag ranch between U.S. Forest Service land and the San Carlos Apache Nation.

**11-179WPF: Inventory of Tamarisk Leaf Beetle and Effects on Riparian Habitat in the Colorado, Verde, Salt and Tonto Rivers**

Map #	Grantee	County	AWPF Funding
188	Northern Arizona University	Coconino	\$141,972.80

**Project Description:** The use of Tamarisk leaf beetles, *Diorhabda spp.* as a potential biocontrol agent against tamarisk began in 1999. Beetles were released in Utah and Colorado in 2000 and since then its range has expanded to include Nevada, Texas, New Mexico and along the Colorado River in Arizona. The effect of defoliation by Tamarisk leaf beetles is likely to affect ecosystem processes, wildlife population dynamics and plant community structure.

The purpose of this project is to expand upon existing research currently being conducted along the Colorado River to include the Verde, Tonto and Salt Rivers. Each of these rivers has varying amounts of tamarisk cover, but do provide habitat for southwestern willow flycatcher and Yellow-billed Cuckoo. The project will include ground surveys to sample for presence and identification of beetle species, measuring microclimate parameters, estimating plant cover and identifying plant species, including nonnative plants that may benefit from defoliation.

**11-180WPF: Pakoon Wash and Pakoon Springs Restoration and Enhancement Project**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>
189	USDI Bureau of Land Management	Mohave	\$306,353.00

**Project Description:** Pakoon Springs has been identified as one of the largest and most important spring complexes on the Arizona Strip. This project is a continuation of the soon to be completed AWPf funded work restoring the Pakoon Springs and stream channel complex to natural conditions (AWPF Grant Contract Number 06-137WPF). The agricultural irrigation conveyances have been removed and the land has been recontoured and revegetated resulting in multiple restored natural spring features. Perennial flows were reestablished into Pakoon Wash after flows were redirected. As a result, the largest perennial stream in Grand Canyon-Parashant National Monument was recreated. That AWPf funded project was recently selected by the BLM as the most successful conservation partnership of the Conservation Lands System.

This project is to continue removal of non-native species, reestablish vegetated historic floodplain conditions, restore proper ecosystem function, enhance project monitoring, collaborate with other habitat and fish and wildlife management agencies, develop strategies for translocation of significant rare native species, and develop a unique field site for education and interpretation efforts in this important area. The channel will be recontoured to restore natural stream function. Bullfrog eradication will continue and translocation of two high priority native species includes the rare native relict leopard frog.

**11-181WPF: Hidden Slough and Leopard Frog Marsh Restoration in Glen Canyon National Recreation Area, AZ**

<b>Map #</b>	<b>Grantee</b>	<b>County</b>	<b>AWPF Funding</b>
190	Grand Canyon Wildlands Council	Coconino	\$348,901.00

**Project Description:** This project is a 3 year effort initiated by the grantee to assist the National Park Service (NPS) by undertaking riparian restoration and monitoring in the Glen Canyon National Recreation Area downstream from Glen Canyon Dam at two sites. The sites are Hidden Slough, located at river mile 6.5Right, and Leopard Frog Marsh at River Mile 9Left. The grantee has implemented many successful projects in Glen and Grand Canyons including tamarisk control and revegetation of 6 acres at Hidden Slough from 2008 to 2010 and they have constructed a native plant nursery at Lee's Ferry. This project is to quantitatively and qualitatively evaluate the recent tamarisk removal and

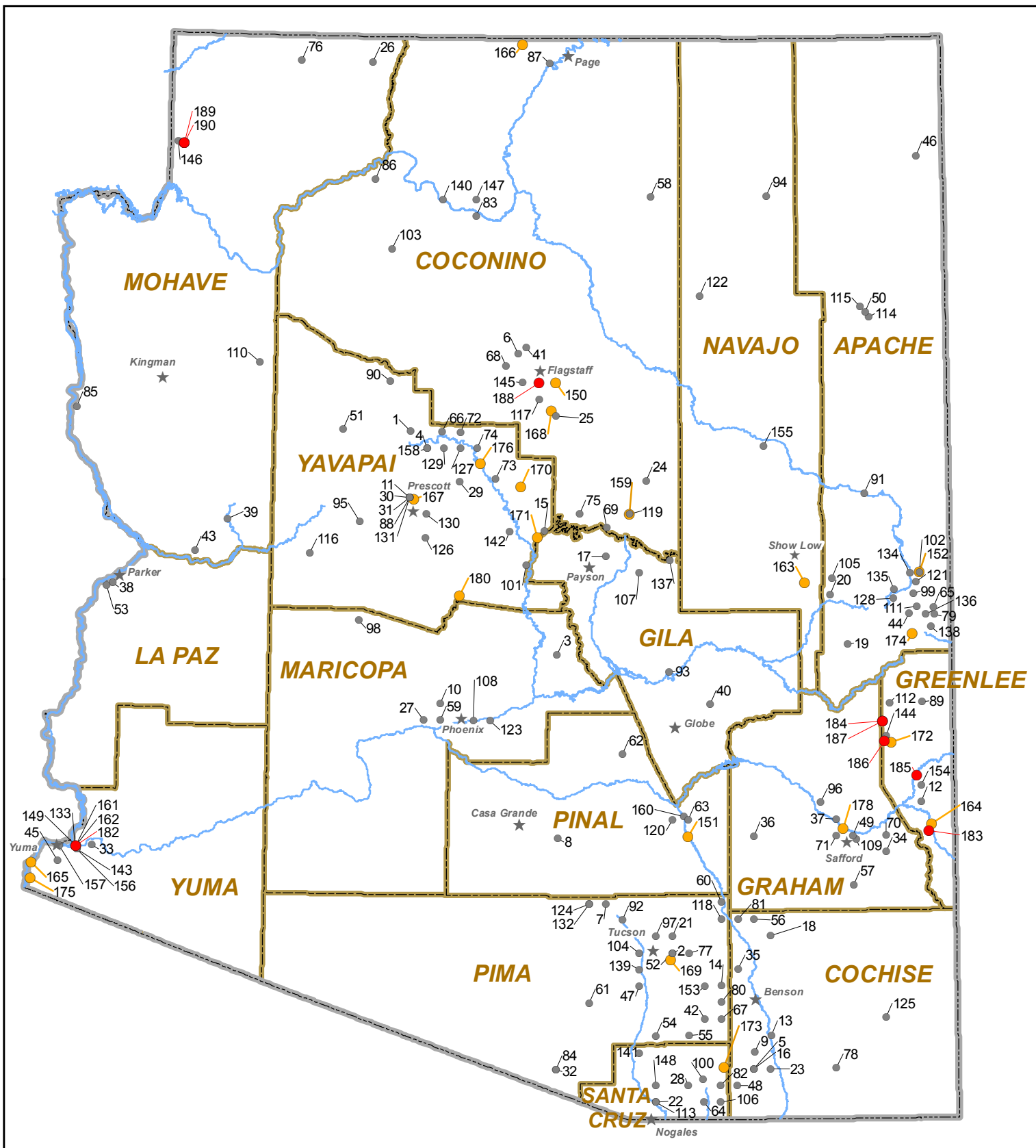
revegetation at Hidden Slough, complete tamarisk control, complete the native revegetation process, phase out the on-site irrigation infrastructure, and develop and test a monitoring program for the NPS. The results of these activities are to guide restoration at Leopard Frog Marsh, which will include habitat restoration planning, tamarisk control, native revegetation and reintroduction of the Northern leopard frog on approximately 1 to 1.5 acres.

## **Conclusion**

In the upcoming fiscal year, the Arizona Water Protection Commission and staff will continue to make substantial progress toward the restoration, protection and enhancement of river and riparian resources throughout the State. The Commission will postpone its FY 2012 grant cycle in order to work toward resolving program administration funding issues. The Commission intends to implement its next grant cycle in March 2012 and is committed to approving projects that are fiscally responsible and beneficial to the citizens of Arizona.

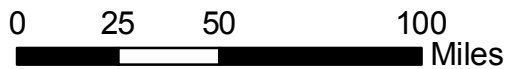
## **Appendix A: Map and List of AWPF Projects**

The Map and List of AWPF Projects with Map Key in this report contain a compilation of grants awarded between FY 1995 – 2011 that have been implemented through contracts and had expenditures made against the grant award. Some grant awards were not contracted, and in those circumstances, monies were unobligated. Grant awards that have been unobligated have been omitted from the list in this report.



**AWPF Project Location \***

- Awarded in 2011
- Active Projects
- Closed Projects
- ★ City
- River
- Arizona
- County



## Arizona Water Protection Fund Project Locations



Author: Karen Fisher, GIS  
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 Location: U:\WorkSpaces\StatewidePlanning\WaterProtectionFund\Projects\AnnualReport\Maps\AWPFLocations2011.mxd

\*See following map key for project descriptions

## List of AWPJ Projects with Map Key

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	\$21,508.00	YAVAPAI	Closed
2	95-002	Partnership for Riparian Conservation in Northeastern Pima County (PROPIMA)	\$78,100.00	PIMA	Closed
3	95-003	Sycamore Creek Riparian Management Area	\$115,522.00	MARICOPA	Closed
4	95-004	Road Reclamation to Improve Riparian Habitat Along the Hassayampa and Verde Rivers	\$45,693.00	YAVAPAI	Closed
5	95-005	Preservation of the San Pedro River Utilizing Effluent Recharge	\$333,863.00	COCHISE	Closed
6	95-006	Critical Riparian Habitat Restoration along a Perennial Reach of a Verde River Tributary	\$102,535.00	COCONINO	Closed
7	95-007	High Plains Effluent Recharge Project	\$189,000.00	PIMA	Closed
8	95-008	Picacho Reservoir Riparian Enhancement Project	\$2,400,000.00	PINAL	Closed
9	95-009	Regeneration and survivorship of Arizona Sycamore	\$34,617.00	COCHISE	Closed
10	95-010	Assessment of the Role of Effluent Dominated Rivers in Supporting Riparian Functions	\$46,750.00	MARICOPA	Closed
11	95-012	The Comprehensive Plan for the Watson Woods Riparian Preserve	\$33,267.34	YAVAPAI	Closed
12	95-014	Gila Box Riparian and Water Quality Improvement Project	\$157,223.00	GREENLEE	Closed
13	95-015	San Pedro RNCA Watershed Rehabilitation/Restoration Project	\$286,000.00	COCHISE	Closed
14	95-016	Refinement of Geologic Model, Lower Cienega Basin, Pima County, Arizona	\$7,390.00	PIMA	Closed
15	95-017	Restoration of Fossil Creek Riparian Ecosystem	\$59,693.00	YAVAPAI	Closed
16	95-018	Autecology and Restoration of Sporobolus Wrightii Riparian Grasslands in Southern Arizona	\$53,734.00	COCHISE	Closed
17	95-019	Quantifying Anti-Erosion Traits of Streambank Graminoids	\$14,910.00	GILA	Closed
18	95-020	Teran Watershed Enhancement	\$142,378.38	COCHISE	Closed
19	95-021	Lofer Cienega Restoration Project	\$161,204.00	APACHE	Closed
20	95-022	Gooseberry Watershed Restoration Project	\$126,406.00	APACHE	Closed
21	95-023	Sabino Creek Riparian Ecosystem Protection Project	\$16,385.00	PIMA	Closed
22	95-024	Potrero Creek Wetland Characterization and Management Plan	\$75,300.00	SANTA CRUZ	Closed
23	96-0001	San Pedro Riparian National Conservation Area Watershed Protection and Improvement Project	\$89,250.00	COCHISE	Closed
24	96-0002	Completion Phase: Hi-Point Well Project	\$77,844.40	COCONINO	Closed
25	96-0003	Hoxworth Springs Riparian Restoration Project	\$31,545.00	COCONINO	Closed
26	96-0004	Hydrologic Investigation & Conservation Planning: Pipe Springs	\$50,000.00	MOHAVE	Closed
27	96-0005	Tres Rios-River Management and Constructed Wetlands Project	\$1,000,000.00	MARICOPA	Closed
28	96-0006	Hydrogeologic Investigation of Groundwater Movement and Sources of Base Flow to Sonoita Creek and Implementation of Long-Term Monitoring Program	\$155,715.00	SANTA CRUZ	Closed
29	96-0007	Ash Creek Riparian Protection Project	\$19,248.00	YAVAPAI	Closed
30	96-0008	Watson Woods Vegetation Inventory	\$16,115.00	YAVAPAI	Closed
31	96-0009	Watson Woods Riparian Preserve Visitor Management	\$8,556.79	YAVAPAI	Closed
32	96-0010	Rehabilitating the Puertocito Wash on the Buenos Aires National Wildlife Refuge.	\$83,432.00	PIMA	Closed

\* The "Grant Amount" column represents the full grant awarded for each project and will total more than the grant disbursements and grant obligations sections on the financial page. Some grants have been completed for less money than the amount budgeted while others have terminated prior to expenditure of the full grant amount. This column has not been changed to reflect these situations.

## List of AWPf Projects with Map Key

33	96-0011	Lower Colorado River - Imperial Division Restoration	\$435,928.00	YUMA	Closed
34	96-0012	Eagle Creek Watershed and Riparian Stabilization	\$80,626.00	GRAHAM	Closed
35	96-0013	Happy Valley Riparian Area Restoration Project	\$64,697.00	COCHISE	Closed
36	96-0014	Klondyke Tailings Response Strategy Analysis (RSA)	\$77,614.00	GRAHAM	Closed
37	96-0015	Abandonment of an Artesian Geothermal Well	\$113,360.00	GRAHAM	Closed
38	96-0016	'Ahakhav Tribal Preserve	\$1,131,477.00	LA PAZ	Closed
39	96-0017	Big Sandy River Riparian Project	\$92,000.00	MOHAVE	Closed
40	96-0018	San Carlos Spring Protection Project	\$131,540.00	GILA	Closed
41	96-0019	Response of Bebb Willow to Riparian Restoration	\$33,752.00	COCONINO	Closed
42	96-0020	Cienega Creek Stream Restoration	\$210,700.00	PIMA	Closed
43	96-0021	Riparian Vegetation and Stream Channel Changes Associated with Water Management along the Bill Williams River	\$14,788.00	MOHAVE	Closed
44	96-0022	Saffell Canyon and Murray Basin Watershed Restoration Project	\$24,316.00	APACHE	Closed
45	96-0023	Watershed Restoration at the Yuma Conservation Gardens	\$31,050.00	YUMA	Closed
46	96-0025	Tsaile Creek Watershed Restoration Demonstration	\$152,775.00	APACHE	Closed
47	96-0026	Riparian Restoration on the San Xavier Indian Reservation Community	\$591,319.00	PIMA	Closed
48	97-027	Lyle Canyon Allotment Riparian Area Restoration Project	\$60,359.57	COCHISE	Closed
49	97-028	Creation of a Reference Riparian Area in the Gila Valley – Discovery Park	\$182,000.00	GRAHAM	Closed
50	97-029	Demonstration Enhancement of Riparian Zone and Stream Channel along stretch of Pueblo Colorado Wash at Hubbell Trading Post	\$91,110.00	APACHE	Closed
51	97-030	Walnut Creek Center for Education and Research - Biological Inventory	\$50,580.00	YAVAPAI	Closed
52	97-031	Lincoln Park Riparian Habitat Project (f.k.a. Atturbury Wash Project)	\$154,580.00	PIMA	Closed
53	97-032	'Ahakhav Tribal Preserve - Deer Island Revegetation	\$228,800.00	LA PAZ	Closed
54	97-033	Proctor Vegetation Modification	\$11,487.00	PIMA	Closed
55	97-034	Oak Tree Gully Stabilization	\$42,491.00	PIMA	Closed
56	97-035	Watershed Improvement to Restore Riparian & Aquatic Habitat on the Muleshoe Ranch CMA	\$128,315.00	COCHISE	Closed
57	97-036	Stable Isotopes as Tracers of Water Quality Constituents in the Upper Gila River	\$27,338.00	GRAHAM	Closed
58	97-037	Talastima (Blue Canyon) Watershed Restoration Project	\$310,192.00	COCONINO	Closed
59	97-038	Tres Rios Wetlands Heavy-Metal Bioavailability and Denitrification Investigation	\$117,028.00	MARICOPA	Closed
60	97-040	Bingham Cienega Riparian Restoration Project	\$84,679.00	PIMA	Closed
61	97-041	Altar Valley Watershed Resource Assessment	\$88,730.00	PIMA	Closed
62	97-042	Queen Creek Restoration & Management Plan	\$207,595.00	PINAL	Closed
63	97-044	San Pedro River Preserve Riparian Habitat Restoration Project	\$336,127.00	PINAL	Closed
64	97-045	Santa Cruz Headwaters Project	\$100,445.00	SANTA CRUZ	Closed
65	98-046	EC Bar Ranch Water Well Project	\$20,300.00	APACHE	Closed
66	98-047	Upper Verde Adaptive Management Unit	\$115,300.00	YAVAPAI	Closed
67	98-049	Empire/Cienega/Empirita Fencing Project	\$54,850.00	PIMA	Closed
68	98-050	Watershed Restoration Of A High-Elevation Riparian Community	\$304,775.00	COCONINO	Closed
69	98-051	Evaluation of Carex Species for Use in Riparian Restoration	\$47,907.00	COCONINO	Closed

## List of AWPf Projects with Map Key

70	98-052	Tritium As A Tracer Of Groundwater Sources And Movement In The Upper Gila River Drainage	\$41,028.00	GRAHAM	Closed
71	98-054	Fluvial Geomorphology Study And Demonstration Projects To Enhance And Restore Riparian Habitat On The Gila River From The New Mexico Border	\$449,872.00	GRAHAM	Closed
72	98-055	Horseshoe Allotment: Verde Riparian Project II	\$82,561.99	YAVAPAI	Closed
73	98-057	Upper Verde Valley Riparian Area Historical Analysis	\$44,019.00	YAVAPAI	Closed
74	98-058	Effects Of Removal Of Livestock Grazing On Riparian Vegetation And Channel Conditions of Selected Reaches of the Upper Verde River	\$116,500.00	YAVAPAI	Closed
75	98-059	Verde River Headwaters Riparian Restoration Demonstration Project	\$204,629.00	COCONINO	Closed
76	98-061	Watershed Enhancement on the Antelope Allotment	\$137,307.00	MOHAVE	Closed
77	98-062	Partnership For Riparian Conservation In Northeastern Pima County II	\$54,734.55	PIMA	Closed
78	98-066	Hay Mountain Watershed Rehabilitation	\$116,525.00	COCHISE	Closed
79	99-067	EC Bar Ranch Wildlife Drinker Project	\$30,500.00	APACHE	Closed
80	99-068	Lower Cienega Creek Restoration Evaluation Project	\$83,272.00	PIMA	Closed
81	99-069	Riparian and Watershed Enhancements On the A7 Ranch - Lower San Pedro River	\$521,197.45	COCHISE	Closed
82	99-070	Lyle Canyon Allotment Riparian Area Restoration Project --- Phase 2	\$214,211.00	SANTA CRUZ	Closed
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	\$238,953.00	COCONINO	Closed
84	99-072	Leopard Frog Habitat and Population Conservation At Buenos Aires National Wildlife Refuge	\$120,485.00	PIMA	Closed
85	99-073	Colorado River Nature Center Backwater ---- Phase 2	\$41,500.00	MOHAVE	Closed
86	99-074	Proposal to Inventory, Assess And Recommend Recovery Priorities For Arizona Strip Springs, Seeps and Natural Ponds	\$101,856.00	COCONINO	Closed
87	99-075	Glen and Grand Canyon Riparian Restoration Project	\$371,285.00	COCONINO	Closed
88	99-076	Watson Woods Preserve Herpetological Interpretive Guide and Checklist	\$31,255.55	YAVAPAI	Closed
89	99-077	Blue Box Crossing	\$150,000.00	GREENLEE	Closed
90	99-078	Aquifer Framework And Ground-Water Flow Paths In Big and Little Chino Basins	\$188,140.00	YAVAPAI	Closed
91	99-079	Little Colorado River Riparian Restoration Project	\$404,587.00	APACHE	Closed
92	99-080	Cortaro Mesquite Bosque	\$486,650.00	PIMA	Closed
93	99-083	Cherry Creek Enhancement Demonstration Project	\$263,225.00	GILA	Closed
94	99-084	Assessments of Riparian Zones in the Little Colorado River Watershed	\$79,443.50	NAVAJO	Closed
95	99-085	Kirkland Creek Watershed Resource Assessment	\$131,430.00	YAVAPAI	Closed
96	99-086	Abandonment of Gila Oil Syndicate Well #1	\$333,790.00	GRAHAM	Closed
97	99-087	Rillito Creek Habitat Restoration Project	\$293,000.00	PIMA	Closed
98	99-088	Wickenburg High School Stream Habitat Creation	\$69,100.00	MARICOPA	Closed
99	99-089	Town of Eagar/Round Valley Water Users Association Pressure Irrigation Feasibility Study & Preliminary Design	\$320,540.00	APACHE	Closed
100	99-090	Redrock Riparian Improvement	\$62,350.00	SANTA CRUZ	Closed



## List of AWPJ Projects with Map Key

101	99-091	Effects of Livestock Use Levels on Riparian Trees on the Verde River	\$41,417.00	YAVAPAI	Closed
102	99-092	Little Colorado River Enhancement Demonstration Project	\$348,627.94	APACHE	Closed
103	99-093	Coconino Plateau Regional Water Study	\$134,200.00	COCONINO	Closed
104	99-094	Santa Cruz River Park Extension	\$434,684.00	PIMA	Closed
105	99-095	Brown Creek Riparian Restoration	\$34,037.00	APACHE	Closed
106	99-096	Upper Santa Cruz Watershed Restoration	\$184,950.00	SANTA CRUZ	Closed
107	99-097	Dakini Valley Riparian Project	\$66,130.00	GILA	Closed
108	99-098	Rio Salado Habitat Restoration Project	\$950,408.00	MARICOPA	Closed
109	00-099	Gila Reference Riparian Area, Discovery Park	\$152,850.80	GRAHAM	Closed
110	00-100	Willow Creek Riparian Restoration Project	\$33,480.00	MOHAVE	Closed
111	00-101	Murray Basin and Saffell Canyon Watershed Restoration Project	\$260,727.83	APACHE	Closed
112	00-102	Upper Eagle Creek Restoration on East Eagle Allotment of Four Drag Ranch	\$66,330.00	GREENLEE	Closed
113	00-103	Riparian Restoration on the Santa Cruz River - Santa Fe Ranch	\$49,008.00	SANTA CRUZ	Closed
114	00-104	Continued Enhancement of Pueblo Colorado Wash at Hubbell Trading Post National Historic Site	\$69,349.00	APACHE	Closed
115	00-105	Hubbell Trading Post Riparian Restoration with Treated Effluent	\$81,951.00	APACHE	Closed
116	00-106	Tres Alamos Ranch Dirt-Tanks-To-Aquatic-Habitat Conversion	\$69,220.56	YAVAPAI	Closed
117	00-108	Lake Mary Watershed Streams Restoration Project	\$253,119.00	COCONINO	Closed
118	00-109	Lower San Pedro Watershed Project	\$249,871.00	PIMA	Closed
119	00-110	Upper Fairchild Draw Riparian Restoration	\$35,515.00	COCONINO	Closed
120	00-111	Cooperative Grazing Management For Riparian Improvement on the San Pedro	\$228,701.00	PINAL	Closed
121	00-112	Town of Eagar/Round Valley Water Users Assoc. - Additional Mapping For Water Quality Improvements in the Watershed	\$151,829.00	APACHE	Closed
122	00-113	Polacca Wash Grazing Management	\$267,511.00	NAVAJO	Closed
123	00-114	The Papago Park Green Line Project	\$229,152.00	MARICOPA	Closed
124	00-115	Tucson Audubon Society North Simpson Farm Riparian Recovery Project	\$127,409.30	PIMA	Closed
125	03-116	Cottonwood Creek Restoration	\$185,772.50	COCHISE	Closed
126	03-117	Lynx Creek Restoration at Sediment Trap #2	\$179,771.50	YAVAPAI	Closed
127	03-118	Verde River Riparian Area Partnership Project	\$111,221.00	YAVAPAI	Closed
128	03-119	Wet Meadows for Water Quality and Wildlife - A Riparian Restoration Project	\$137,027.30	APACHE	Closed
129	04-120	Verde Headwaters 3-D Hydrogeological Model Framework and Visualization	\$46,634.00	YAVAPAI	Closed
130	04-121	Lynx Creek Restoration	\$266,020.00	YAVAPAI	Closed
131	04-122	Watson Woods Riparian Preserve Restoration Feasibility Project	\$183,523.80	YAVAPAI	Closed
132	04-123	Tucson Audubon Society, Santa Cruz River Habitat Project, North Simpson Site, Phase 2	\$130,786.00	PIMA	Closed
133	04-124	Yuma East Wetlands Riparian Revegetation Project	\$285,878.25	YUMA	Closed
134	05-125	Wilkins' Family Little Colorado River Riparian Enhancement Project	\$293,618.00	APACHE	Closed
135	05-126	X Diamond Ranch LCR Riparian Enhancement Project	\$352,119.00	APACHE	Closed
136	05-127	EC Bar Ranch Reach 8 Water Well and Drinker Project	\$22,235.00	APACHE	Closed

## List of AWPf Projects with Map Key

137	05-128	Canyon Creek Riparian Restoration Project, Reach 4-5	\$106,919.00	GILA	Closed
138	05-129	Georges Lake Riparian Restoration Project	\$168,636.50	APACHE	Closed
139	05-130	Riparian Restoration on the San Xavier District - Project Two	\$36,353.00	PIMA	Closed
140	05-131	Management & Control of Tamarisk and Other Invasive Vegetation at Backcountry Seeps, Springs and Tributaries in Grand Canyon National Park	\$245,500.00	COCONINO	Closed
141	05-132	Esperanza Ranch Riparian Restoration Project	\$279,411.50	SANTA CRUZ	Closed
142	05-133	Verde Wild and Scenic River Fence Enclosure	\$63,888.50	YAVAPAI	Closed
143	05-134	Quechan Indian Nation Yuma East Wetlands Restoration Project - Phase I	\$263,803.25	YUMA	Closed
144	06-135	Double Circle Ranch Riparian Fencing Project	\$84,448.00	GREENLEE	Closed
145	06-136	The Arboretum at Flagstaff Wetland Habitat Enhancement	\$116,000.00	COCONINO	Closed
146	06-137	Pakoon Springs Restoration Design and Implementation Project	\$262,103.00	MOHAVE	Closed
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	\$258,397.00	COCONINO	Closed
148	06-139	Coal Mine Fence	\$187,013.00	SANTA CRUZ	Closed
149	06-140	Yuma Crossing National Heritage Area Yuma East Wetlands Restoration Project - Phase I	\$256,790.00	YUMA	Closed
150	07-141	Picture Canyon Rio De Flag Meander Restoration Project	\$330,225.00	COCONINO	Active
151	07-142	Reduction of Erosion and Sedimentation along the Lower San Pedro River Through Hydrologic Restoration of Modified Ephemeral Washes	\$396,409.00	PINAL	Active
152	07-143	Little Colorado River & Nutrioso Creek Riparian Enhancement Project	\$198,996.00	APACHE	Active
153	07-144	Evaluation of Riparian Habitat and Headcutting on Lower Cienega Creek	\$23,972.00	PIMA	Closed
154	07-145	Kaler Ranch Erosion Control Project, Phase II	\$284,332.00	GREENLEE	Closed
155	07-146	Little Colorado River Project on H-Y Ranch River Property	\$53,000.00	NAVAJO	Closed
156	07-147	The Effects of Restoration on Wildlife Recovery at the Yuma East Wetlands Restoration Project	\$68,016.00	YUMA	Closed
157	07-148	South Channel Phase II Restoration Project	\$603,487.00	YUMA	Closed
158	07-149	Control of Tamarisk on 12 Miles of the Upper Verde River	\$366,390.00	YAVAPAI	Closed
159	07-150	Fairchild Draw Riparian Restoration Project	\$172,674.00	COCONINO	Active
160	08-151	Test of Riparian Recovery Following Cessation of Groundwater Pumping, Lower San Pedro	\$61,795.00	PINAL	Closed
161	08-152	AWPF Yuma East Wetlands 68-acre Riparian Revegetation	\$746,667.60	YUMA	Active
162	08-153	The Effects of Restoration on Herpetofaunal and Mammalian Community Recovery	\$156,833.40	YUMA	Closed
163	08-154	Billy Creek Natural Area Riparian Restoration Project	\$248,826.00	NAVAJO	Active
164	08-155	Restoration of the Gila River at Apache Grove	\$744,747.00	GREENLEE	Active
165	08-156	Cocopah Colorado River Restoration	\$296,708.00	YUMA	Active
166	08-157	Paria River Exotic Removal Project - Phase I	\$293,960.10	COCONINO	Active
167	08-158	Watson Woods Riparian Preserve Restoration Project	\$798,988.00	YAVAPAI	Active
168	08-159	Hoxworth Springs Stream Channel Restoration Project	\$142,543.20	COCONINO	Active
169	08-160	Atturbury Wash Riparian Stewardship Project	\$390,839.00	PIMA	Active
170	08-161	Montezuma Well Riparian Pasture Restoration Project	\$296,155.00	YAVAPAI	Active
171	09-162	Middle Fossil Creek Riparian Habitat Protection and Restoration	\$250,348.00	GILA	Active

## List of AWPf Projects with Map Key

172	09-163	Double Circle Ranch Erosion Control Project	\$35,356.00	GREENLEE	Active
173	09-164	Babocomari River Riparian Protection Project	\$118,125.00	SANTA CRUZ	Active
174	09-165	Alpine Ranger District Riparian Improvement	\$372,579.00	APACHE	Active
175	09-166	Hunter's Hole Riparian and Wetland Restoration Project	\$683,345.87	YUMA	Active
176	09-167	Tavasci Marsh Wetland Restoration Project	\$374,838.00	YAVAPAI	Active
178	09-169	Gila River Water Conservation Education Program	\$148,612.80	GRAHAM	Active
180	09-171	Black Canyon Riparian Restoration Project	\$291,700.00	YAVAPAI	Active
182	11-172	Avifaunal and Butterfly (Lepidoptera) Recovery in Restored Wetland and Riparian Habitats	\$100,758.00	YUMA	Awarded in 2011
183	11-173	Invasive Weed Control - Gila River Corridor, Greenlee County	\$261,995.96	GREENLEE	Awarded in 2011
184	11-174	Eagle Creek Riparian Restoration at Filleman Crossing	\$265,776.00	GREENLEE	Awarded in 2011
185	11-175	E. Coli Reduction on the San Francisco River through Alternative Livestock Water on the Kaler Ranch, Phase II	\$137,594.43	GREENLEE	Awarded in 2011
186	11-176	Double Circle Ranch Erosion Control Project Phase II	\$36,866.60	GREENLEE	Awarded in 2011
187	11-177	Eagle Creek Riparian Protection Project	\$136,714.11	GREENLEE	Awarded in 2011
188	11-179	Inventory of Tamarisk Leaf Beetle and Effects on Riparian Habitat in the Colorado, Verde, Salt and Tonto Rivers	\$141,972.80	COCONINO	Awarded in 2011
189	11-180	Pakoon Wash and Pakoon Springs Restoration and Enhancement Project	\$306,353.00	MOHAVE	Awarded in 2011
190	11-181	Hidden Slough and Leopard Frog Marsh Restoration in Glen Canyon National Recreation Area , AZ	\$348,901.00	MOHAVE	Awarded in 2011

## **Appendix B: Financial Statement**

ARIZONA WATER PROTECTION FUND  
 Combined Statement of Receipts, Expenditures and Fund Balance  
**From July 1, 2010 Through 13th Month, 2011**  
 (000's Omitted)

FUND Cash Balance FY 2010		6,128
RECEIPTS:		
Appropriation From General Fund	0	
		0
Investment Income	56	
Interstate Water Sales (CAP)	2,515	
Receipts and Donations	0	
TOTAL RECEIPTS		2,571
EXPENDITURES:		
ADWR Support	410	
ASLD Support	0	
Commission Expenses	0	
Grant Disbursements	998	
Legislative Transfer Out	55	
TOTAL EXPENDITURE		1,463
FUND CASH BALANCE		7,236
LESS REMAINING GRANT OBLIGATIONS		-6,727
TOTAL FUND BALANCE		509
ACCOUNTS		
GRANT FUNDS		438
ADMINISTRATION EXPENSES		71
TOTAL ACCOUNT BALANCE		509