

APPENDIX F: ARIZONA WATER PROTECTION FUND

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The Arizona Water Protection Fund (AWPF) was established in 1994 by the Arizona State Legislature (A.R.S. § 45-2101 et seq.) in order to provide a source of funding for “a coordinated effort for the restoration and conservation of the water resources of the state....designed to allow the people of this state to prosper while protecting and restoring this state’s rivers and streams and associated riparian habitats, including fish and wildlife resources that are dependent on these important habitats”.

Riparian areas provide wildlife habitat, support biodiversity and serve many essential functions including water quality improvement, water quantity improvement, flood control and recreation. These conditions provide economic benefits including increased property values.

The AWPF is administered by a 15-member Commission appointed by the Governor, the President of the Senate and the Speaker of the House of Representatives. The composition of the Commission is specified by statute (A.R.S. § 45-2103(A)) and is intended to represent a variety of land, water use and riparian issue perspectives. In addition there are two ex officio members, the director of the department of water resources and the state land commissioner.

The AWPF funds projects through a competitive grant process. Any person, agency or organization can apply. All projects must be in Arizona, be consistent with state water law and support the overall goals of the AWPF. Grants may be used to:

- Develop or implement capital projects or specific measures that directly maintain, enhance and restore rivers and streams and associated riparian resources;
- Acquire CAP water or effluent for the purpose of protecting or restoring rivers and streams;
- Develop, promote and implement water conservation programs outside of the five active management areas;
- Support research and data collection, compilation and analysis; or
- Fund man-made water resource projects if the project benefits a river or stream and creates or restores riparian habitat.

Monies for the AWPF are from three sources: 1) the Arizona State Legislature; 2) Central Arizona Project fees for each acre-foot of water sold to out-of-state CAP water lessees and purchasers, and; 3) private gifts, grants or donations. By statute, the AWPF is to receive \$5 million annually from the legislature. The Commission encumbers all of the funds necessary to ensure the funding of multi-year projects. Money is disbursed on a reimbursable basis.

As of FY 2008, 164 projects had been funded. Table F-1 lists the grant number, project title and type of project, organized by planning area and groundwater basin. The table includes a map number, which refers to grant locations shown on Figure F-1.

TABLE F-1
AWPF Funded Projects through FY 2008 by Planning Area

VOLUME 2: EASTERN PLATEAU PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Little Colorado River Plateau	25	96-0003	Hoxworth Springs Riparian Restoration Project	Stream Restoration
Little Colorado River Plateau	44	96-0022	Saffell Canyon and Murray Basin Watershed Restoration	Feasibility Study
Little Colorado River Plateau	46	96-0025	Tsaile Creek Watershed Restoration Demonstration	Watershed Restoration
Little Colorado River Plateau	24	96-0002	Completion Phase: Hi-Point Well Project	Fencing
Little Colorado River Plateau	50	97-029	Demonstration Enhancement of Pueblo Colorado Wash at Hubbell Trading Post	Stream Restoration & Revegetation
Little Colorado River Plateau	58	97-037	Talastima (Blue Canyon) Watershed Restoration Project	Exotic Species Control & Fencing
Little Colorado River Plateau	65	98-046	EC Bar Ranch Water Well Project	Fencing & Water Developments
Little Colorado River Plateau	69	98-051	Evaluation of Carex Species for Use in Riparian Restoration	Research
Little Colorado River Plateau	79	99-067	EC Bar Ranch Wildlife Drinker Project	Livestock & Wildlife Water Developments
Little Colorado River Plateau	91	99-079	Little Colorado River Riparian Restoration Project	Constructed Wetland & Revegetation
Little Colorado River Plateau	94	99-084	Assessments of Riparian Zones in the Little Colorado River Watershed	Research
Little Colorado River Plateau	99	99-089	Town of Eager/Round Valley Water Users Association Pressure Irrigation Feasibility Study & Preliminary Design	Feasibility Study
Little Colorado River Plateau	102	99-092	Little Colorado River Enhancement Demonstration Project	Stream Restoration
Little Colorado River Plateau	105	99-095	Brown Creek Riparian Restoration	Fencing & Water Developments

VOLUME 2: EASTERN PLATEAU PLANNING AREA (cont)

Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Little Colorado River Plateau	114	00-104	Continued Enhancement of Pueblo Colorado Wash at Hubbell Trading Post National Historic Site	Exotic Species Control & Stream Restoration
Little Colorado River Plateau	115	00-105	Hubbell Trading Post Riparian Restoration with Treated Effluent	Revegetation
Little Colorado River Plateau	117	00-108	Lake Mary Watershed Streams Restoration	Channel Restoration
Little Colorado River Plateau	119	00-110	Upper Fairchild Draw Riparian Restoration	Fencing & Revegetation
Little Colorado River Plateau	121	00-112	Town of Eagar/Round Valley Water Users Association Pressure Irrigation Feasibility Study and Preliminary Design – Additional Mapping for Water Quality Improvements in the Watershed	Feasibility Study
Little Colorado River Plateau	122	00-113	Polacca Wash Grazing Management	Fencing & Exotic Species Control w/ Revegetation
Little Colorado River Plateau	128	03-119	Wet Meadows for Water Quality and Wildlife – A Riparian Restoration Project	Fencing & Habitat Protection
Little Colorado River Plateau	134	05-125	Wilkins’ family Little Colorado River Riparian Enhancement Project	Stream Restoration
Little Colorado River Plateau	135	05-126	X Diamond Ranch LCR Riparian Enhancement Project	Stream Restoration
Little Colorado River Plateau	136	05-127	EC Bar Ranch Reach 8 Water Well and Drinker Project	Water Developments
Little Colorado River Plateau	145	06-136	The Arboretum at Flagstaff Wetland Habitat Enhancement	Habitat Restoration
Little Colorado River Plateau	150	07-141	Picture Canyon Rio de Flag Meander Restoration Project	Stream Restoration
Little Colorado River Plateau	152	07-143	Little Colorado River & Nutrioso Creek Riparian Enhancement Project	Stream Restoration
Little Colorado River Plateau	155	07-146	Little Colorado River Project on H-Y Ranch River Recovery Project	Fencing & Habitat Restoration

VOLUME 2: EASTERN PLATEAU PLANNING AREA (cont)				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Little Colorado River Plateau	163	07-154	Billy Creek Natural Area Riparian Restoration Project	Stream Restoration
Little Colorado River Plateau	168	08-159	Hoxworth Springs Stream Channel Restoration Project	Fencing & Stream Restoration

VOLUME 3: SOUTHEASTERN ARIZONA PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Aravaipa Canyon	36	96-0014	Klondyke Tailings Response Strategy Analysis (RSA)	Research
Cienega Creek	14	95-016	Refinement of Geologic Model, Lower Cienega Basin, Pima County, Arizona	Research
Cienega Creek	28	96-0006	Hydrogeologic Investigation of Groundwater Movement and Sources of Base Flow to Sonoita Creek and Implementation of Long-Term Monitoring Program	Research
Cienega Creek	42	96-0020	Cienega Creek Stream Restoration	Stream Restoration & Revegetation
Cienega Creek	55	97-034	Oak Tree Gully Stabilization	Upland Channel Restoration
Cienega Creek	67	98-049	Empire/Cienega/Empirita Fencing Project	Fencing
Cienega Creek	80	99-068	Lower Cienega Creek Restoration Evaluation Project	Research
Cienega Creek	100	99-090	Redrock Riparian Improvement	Fencing & Water Developments
Douglas	78	98-066	Hay Mountain Watershed Rehabilitation	Watershed Restoration
Duncan Valley	12	95-014	Gila Box Riparian and Water Quality Improvement Project	Fencing & Upland Water Developments
Duncan Valley	164	08-155	Restoration of the Gila River at Apache Grove	Stream Restoration

VOLUME 3: SOUTHEASTERN ARIZONA PLANNING AREA (cont)				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Lower San Pedro	60	97-040	Bingham Cienega Riparian Restoration Project	Revegetation
Lower San Pedro	63	97-044	San Pedro River Preserve Riparian Habitat Restoration Project	Habitat Restoration
Lower San Pedro	81	99-069	Riparian and Watershed Enhancements on the A7 Ranch – Lower San Pedro River	Fencing & Upland Water Developments
Lower San Pedro	151	07-142	Reduction of Erosion and Sedimentation along the Lower San Pedro River Through Hydrologic Restoration of Modified Ephemeral Washes	Habitat & Stream Restoration
Lower San Pedro	118	00-109	Lower San Pedro Watershed Project	Feasibility Study
Lower San Pedro	120	00-111	Cooperative Grazing Management for Riparian Improvement on the San Pedro	Fencing & Upland Water Developments
Morenci	89	99-077	Blue Box Crossing	Channel Restoration
Morenci	112	00-102	Upper Eagle Creek Restoration on East Eagle Allotment: 4 Drag Ranch	Fencing & Upland Water Developments
Morenci	138	05-129	Georges Lake Riparian Restoration Project	Fencing & Habitat Protection
Morenci	144	06-135	Double Circle Ranch Riparian Fencing Project	Fencing
Morenci	154	07-145	Kaler Ranch Erosion Control Project, Phase II	Habitat Stream Protection
Safford	34	96-0012	Eagle Creek Watershed and Riparian Stabilization	Fencing & Upland Water Developments
Safford	40	96-0018	San Carlos Spring Protection Project	Fencing
Safford	37	96-0015	Abandonment of an Artesian Geothermal Well	Habitat Protection
Safford	49	97-028	Creation of a Reference Riparian Area in the Gila Valley – Discovery Park	Habitat Restoration

VOLUME 3: SOUTHEASTERN ARIZONA PLANNING AREA (cont)

Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Safford	70	98-052	Tritium as a Tracer of Groundwater Sources and Movement in the Upper Gila River Drainage	Research
Safford	71	98-054	Fluvial Geomorphology Study and Demonstration Projects to Enhance and Restore Riparian Habitat on the Gila River from the New Mexico Border	Research
Safford	96	99-086	Abandonment of Gila Oil Syndicate Well #1	Habitat Protection
Safford	109	00-099	Gila Reference Riparian Area, Discovery Park	Revegetation
San Rafael	64	97-045	Santa Cruz Headwaters Project	Fencing & Upland Water Developments
San Rafael	106	99-096	Upper Santa Cruz Watershed Restoration	Fencing & Upland Water Developments
Upper San Pedro	9	95-009	Regeneration and Survivorship of Arizona Sycamore	Research
Upper San Pedro	5	95-005	Preservation of the San Pedro River Utilizing Effluent Recharge	Constructed Wetland
Upper San Pedro	13	95-015	San Pedro Riparian National Conservation Area Watershed Rehabilitation/ Restoration Project	Revegetation & Upland Channel Restoration
Upper San Pedro	16	95-018	Autecology and Restoration of <i>Sporobolus Wrightii</i> Riparian Grasslands in Southern Arizona	Research
Upper San Pedro	18	95-020	Teran Watershed Enhancement	Upland Channel Restoration
Upper San Pedro	35	96-0013	Happy Valley Riparian Area Restoration Project	Fencing
Upper San Pedro	23	96-0001	San Pedro Riparian National Conservation Area Watershed Protection and Improvement Project	Fencing
Upper San Pedro	48	97-027	Lyle Canyon Allotment Restoration Project	Fencing & Upland Water Developments
Upper San Pedro	82	99-070	Lyle Canyon Allotment Riparian Area Restoration Project --- Phase 2	Fencing & Upland Water Developments
Willcox	125	03-116	Cottonwood Creek Restoration	Upland Channel Restoration
Upper San Pedro	160	08-151	Test of Riparian Recovery Following Cessation of Groundwater Pumping	Research

VOLUME 4: UPPER COLORADO RIVER PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Big Sandy	110	00-100	Willow Creek Riparian Restoration Project	Revegetation
Bill Williams	39	96-0017	Big Sandy River Riparian Project	Fencing
Bill Williams	43	96-0021	Riparian Vegetation and Stream Channel Changes Associated with Water Management along the Bill Williams River	Research
Bill Williams	95	99-085	Kirkland Creek Watershed Resource Assessment	Feasibility Study
Bill Williams	116	00-106	Tres Alamos Dirt-Tanks-To-Aquatic-Habitat-Conversion	Fencing & Upland Channel Restoration
Lake Mohave	85	99-073	Colorado River Nature Center Backwater --- Phase 2	Feasibility Study

VOLUME 5: CENTRAL HIGHLANDS PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Agua Fria	29	96-0007	Ash Creek Riparian Protection Project	Stream Restoration
Agua Fria	126	03-117	Lynx Creek Restoration at Sediment Trap #2	Stream Restoration
Salt River	19	95-021	Lofer Cienega Restoration Project	Fencing & Habitat Protection
Salt River	20	95-022	Gooseberry Watershed Restoration Project	Stream Restoration
Salt River	93	99-083	Cherry Creek Enhancement Demonstration Project	Stream Restoration
Salt River	137	05-128	Canyon Creek Riparian Restoration Project, Reach 4-5	Fencing & Habitat Protection
Tonto Creek	17	95-019	Quantifying Anti-Erosion Traits of Streambank Graminoids	Research
Tonto Creek	107	99-097	Dakini Valley Riparian Project	Fencing & Revegetation
Upper Hassayampa	98	99-088	Wickenburg High School Stream Habitat Creation	Constructed Wetland Restoration

VOLUME 5: CENTRAL HIGHLANDS PLANNING AREA (cont)

Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Verde River	3	95-003	Sycamore Creek Riparian Management Area	Fencing
Verde River	4	95-004	Road Reclamation to Improve Riparian Habitat Along the Hassayampa and Verde Rivers	Revegetation
Verde River	6	95-006	Critical Riparian Habitat Restoration Along a Perennial Reach of a Verde River Tributary	Stream Restoration
Verde River	15	95-017	Restoration of Fossil Creek Riparian Ecosystem	Research
Verde River	51	97-030	Walnut Creek Center for Education and Research – Biological Inventory	Research
Verde River	66	98-047	Upper Verde Adaptive Management Unit	Fencing
Verde River	68	98-050	Watershed Restoration of a High Elevation Riparian Community	Watershed & Stream Restoration
Verde River	72	98-055	Horseshoe Allotment: Verde Riparian Project II	Fencing & Upland Water Developments
Verde River	73	98-057	Upper Verde Valley Riparian Area Historical Analysis	Research
Verde River	74	98-058	Effects of Removal of Livestock Grazing on Riparian Vegetation and Channel Conditions of Selected Reaches of the Upper Verde River	Research
Verde River	75	98-059	Verde River Headwaters Riparian Restoration Demonstration Project	Channel Restoration
Verde River	90	99-078	Aquifer Framework and Ground-Water Flow Paths in Big and Little Chino Basins	Research
Verde River	101	99-091	Effects of Livestock Use Levels on Riparian Trees on the Verde River	Research
Verde River	127	03-118	Verde River Riparian Area Partnership Project	Exotic Species Control
Verde River	129	04-120	Verde River Headwaters 3-D Hydrogeological Model Framework and Visualization	Research
Verde River	142	05-133	Verde Wild and Scenic River Fence Enclosure	Fencing
Verde River	158	07-149	Control of Tamarisk on 12 Miles of the Upper Verde River	Habitat Protection
Verde River	170	08-161	Montezuma Well Riparian Pasture Restoration Project	Habitat Restoration

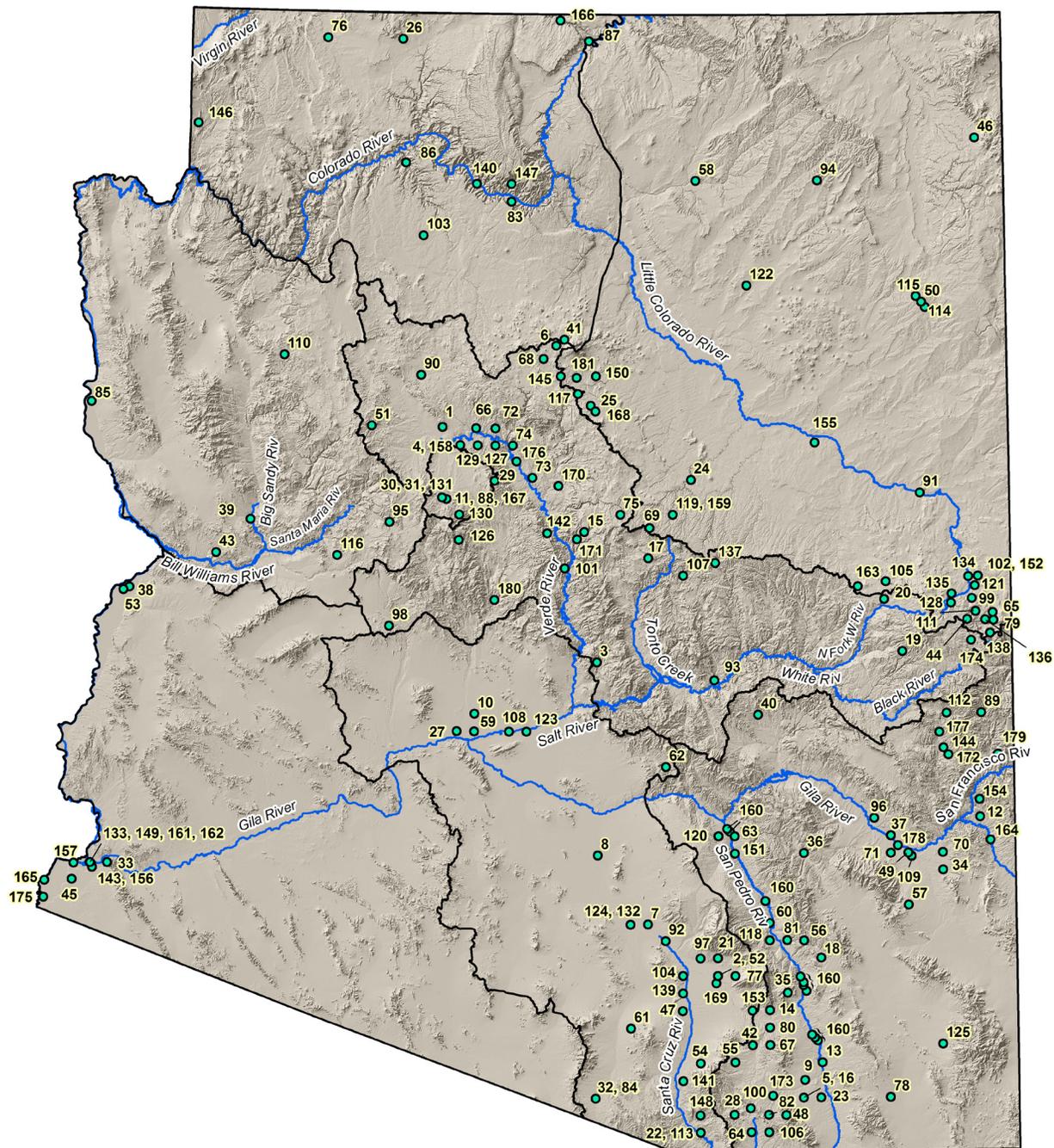
VOLUME 6: WESTERN PLATEAU PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Coconino Plateau	41	96-0019	Response of Bebb Willow to Riparian Restoration	Stream Restoration
Coconino Plateau	83	99-071	Protection of Spring and Seep Resources of the South Rim, Grand Canyon National Park by Measuring Water Quality, Flow, and Associated Biota	Research
Coconino Plateau	86	99-074	Proposal to Inventory, Assess, and Recommend Recovery Priorities for Arizona Strip Springs, Seeps, and Natural Ponds	Research
Coconino Plateau	103	99-093	Coconino Plateau Regional Water Study	Research
Coconino Plateau	140	05-131	Management & Control of Tamarisk and Other Invasive Vegetation at Backcountry Seeps, Springs, and Tributaries in Grand Canyon National Park	Exotic Species Control
Coconino Plateau	147	06-138	Management and Control of Tamarisk and Other Invasive Vegetation at back County Seeps, Springs, and Tributaries in Grand Canyon National Park – Second Year Phase II	Habitat Restoration
Grand Wash	146	06-137	Pakoon springs Restoration Design and Implementation Project	Habitat Restoration
Kanab Plateau	26	96-0004	Hydrologic Investigation & Conservation Planning: Pipe Springs	Research
Kanab Plateau	76	98-061	Watershed Enhancement on the Antelope Allotment	Upland Water Developments
Kanab Plateau	87	99-075	Glen and Grand Canyon Riparian Restoration Project	Exotic Species Control & Revegetation
Paria	166	08-157	Paria River Exotic Removal Project	Habitat Restoration

VOLUME 7: LOWER COLORADO RIVER PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Parker	38	96-0016	'Ahakhav Tribal Preserve	Habitat Restoration & Revegetation
Parker	53	97-032	'Ahakhav Tribal Preserve – Deer Island Revegetation	Exotic Species Control & Revegetation
Yuma	33	96-0011	Lower Colorado River – Imperial Division Restoration	Wetland Restoration
Yuma	45	96-0023	Watershed Restoration at the Yuma Conservation Gardens	Watershed Restoration
Yuma	133	04-124	Yuma East Wetlands Riparian Revegetation Project	Exotic Species Control & Revegetation
Yuma	143	05-134	Quechan Indian Nation Yuma East Wetlands Restoration Project – Phase I	Exotic Species Control & Revegetation
Yuma	149	06-140	Yuma Crossing National Heritage Area Yuma East Wetlands Restoration Project – Phase I	Wetland Restoration
Yuma	156	07-147	The Effects of Restoration on Wildlife Recovery at the Yuma East Wetlands Restoration Project	Research
Yuma	157	07-148	South Channel Phase II Restoration Project	Wetland Restoration
Yuma	161	08-152	AWPF Yuma East Wetlands 68-Acre Riparian Revegetation	Wetland Restoration
Yuma	162	08-153	The Effects of Restoration on Herpetofaunal and Mammalian Community Recovery Project	Research
Yuma	165	08-156	Cocopah Colorado River Restoration	Habitat & Stream Restoration

VOLUME 8: AMA PLANNING AREA				
Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Phoenix AMA	10	95-010	Assessment of the Role of Effluent Dominated Rivers in Supporting Riparian Functions	Research
Phoenix AMA	27	96-0005	Tres Rios River Management & Constructed Wetlands Project	Research
Phoenix AMA	59	97-038	Tres Rios Wetland Heavy Metal Bioavailability Design for Denitrification and Microbial Water Quality	Research
Phoenix AMA	62	97-042	Queen Creek Restoration and Management Plan	Research
Phoenix AMA	108	99-098	Rio Salado Habitat Restoration Project	Constructed Wetland & Revegetation
Phoenix AMA	123	00-114	The Papago Park Greenline Project	Exotic Species Control & Revegetation
Pinal AMA	8	95-008	Picacho Reservoir Riparian Enhancement Project	Habitat Protection
Prescott AMA	11	95-012	The Comprehensive Plan for the Watson Woods Riparian Preserve	Feasibility Study
Prescott AMA	30	96-0008	Watson Woods Vegetation Inventory	Research
Prescott AMA	31	96-0009	Watson Woods Riparian Preserve Visitor Management	Research
Prescott AMA	88	99-076	Watson Woods Preserve Herpetological Interpretive Guide and Checklist	Research
Prescott AMA	130	04-121	Lynx Creek Restoration	Stream Restoration
Prescott AMA	131	04-122	Watson Woods Riparian Preserve Restoration Feasibility Project	Feasibility Study
Prescott AMA	167	08-158	Watson Woods Riparian Preserve Restoration Project	Habitat & Stream Restoration
Santa Cruz AMA	22	95-024	Potrero Creek Wetland Characterization and Management Plan	Research
Santa Cruz AMA	61	97-041	Altar Valley Watershed Resource Assessment	Research
Santa Cruz AMA	113	00-103	Riparian Restoration on the Santa Cruz River – Santa Fe Ranch	Fencing & Revegetation
Santa Cruz AMA	141	05-132	Esperanza Ranch Riparian Restoration Project	Fencing & Revegetation
Santa Cruz AMA	148	06-139	Coal Mine Fence	Fencing & Habitat Protection

VOLUME 8: AMA PLANNING AREA (cont)

Groundwater Basin	Map Number	AWPF Grant #	Project Title	Project Category
Tucson AMA	7	95-007	High Plains Effluent Recharge Project	Wetland Restoration
Tucson AMA	21	95-023	Sabino Creek Riparian Ecosystem Protection Project	Research
Tucson AMA	32	96-0010	Rehabilitating the Puertocito Wash on the Buenos Aires National Wildlife Refuge	Stream Restoration
Tucson AMA	47	96-0026	Riparian Restoration on the San Xavier Indian Reservation Community	Habitat Restoration & Revegetation
Tucson AMA	52	97-031	Lincoln Park Riparian Habitat Project (f.k.a. Atturbury Wash Project)	Habitat Restoration
Tucson AMA	54	97-033	Proctor Vegetation Modification	Exotic Species Control
Tucson AMA	77	98-062	Partnership for Riparian Conservation in Northeastern Pima County II	Revegetation
Tucson AMA	84	99-072	Leopard Frog Habitat and Population Conservation at Buenos Aires National Wildlife Refuge	Habitat Restoration
Tucson AMA	92	99-080	Cortaro Mesquite Bosque	Habitat Restoration & Revegetation
Tucson AMA	97	99-087	Rillito Creek Habitat Restoration Project	Habitat Restoration & Revegetation
Tucson AMA	104	99-094	Santa Cruz River Park Extension	Habitat Restoration & Revegetation
Tucson AMA	124	00-115	Tucson Audubon Society North Simpson Farm Riparian Recovery Project	Revegetation
Tucson AMA	132	04-123	Tucson Audubon Society, Santa Cruz River Habitat Project, North Simpson Site, Phase 2	Revegetation
Tucson AMA	139	05-130	Riparian Restoration on the San Xavier District – Project Two	Revegetation
Tucson AMA	153	07-144	Evaluation of Riparian Habitat and Headcutting on Lower Cienega Creek	Research
Tucson AMA	169	08-160	Atturbury Wash Riparian Stewardship Project	Habitat Restoration



- 123 AWPF Grant Location/Map Key
- Major Streams
- Planning Area Boundary

Figure F-1
Arizona Water Protection Fund Grant Locations



Data Source: ADWR 2008c