

## ACRONYMS AND ABBREVIATIONS

AAWS	Analysis of Adequate Water Supply
ACC	Arizona Corporation Commission
ADMMR	Arizona Department of Mines and Mineral Resources
ADWR	Arizona Department of Water Resources
ADEQ	Arizona Department of Environmental Quality
AGFD	Arizona Game and Fish Department
ALERT	Automated Local Evaluation in Real Time
ALRIS	Arizona Land Resource Information System
AMA	Active Management Area
AWPF	Arizona Water Protection Fund
AZMET	Arizona Meteorological Network
BIA	United States Bureau of Indian Affairs
BLM	United States Bureau of Land Management
CAP	Central Arizona Project
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLIMAS	Climate Assessment for the Southwest
CPC	Center for Plant Conservation
DES	Arizona Department of Economic Security
DOD	United States Department of Defense
EPA	Environmental Protection Agency
ESA	Endangered Species Act
FCD	Flood Control District
GIS	Geographic Information System
gpcd	Gallons per capita per day
gpm	Gallons per minute
GWSI	Groundwater Site Inventory System
HIA	Historically Irrigated Acres
HSR	Hydrographic Survey Report
HUC	Hydrologic Unit Code
ITCA	Intertribal Council of Arizona
LUST	Leaking Underground Storage Tank
maf	Million acre-feet
M&I	Municipal and Industrial
NEMO	Non-point Education for Municipal Officials
NHD	National Hydrography Dataset
NOAA	National Oceanic and Atmospheric Administration
NPS	United States National Park Service
NRCD	Natural Resources Conservation District
NRCS	Natural Resources Conservation Service
NWIS	National Water Information System
NWS	National Weather Service
Pan ET	Pan Evapotranspiration
PCE	tetrachloroethene

PDO	Pacific Decadal Oscillation
SNOTEL	SNOpack TELelemetry
SRP	Salt River Project
TDS	Total Dissolved Solids
USBOR	United States Bureau of Reclamation
USDA	United States Department of Agriculture
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VRP	Voluntary Remediation Program
WAC	Yavapai County Water Advisory Committee
WIFA	Water Infrastructure Finance Authority
WQARF	Water Quality Assurance Revolving Fund
WRCC	Western Regional Climate Center
WWTF	Wastewater Treatment Facility
WWTP	Wastewater Treatment Plant



# Appendix A

**APPENDIX A**  
**AWPF Funded Projects**  
**In the Central Highlands Planning Area through FY 2008**

<b>CENTRAL HIGHLANDS PLANNING AREA</b>			
<b>Groundwater Basin</b>	<b>AWPF Grant #</b>	<b>Project Title</b>	<b>Project Category</b>
<b>Agua Fria</b>	96-0007	Ash Creek Riparian Protection Project	Stream Restoration
<b>Agua Fria</b>	03-117	Lynx Creek Restoration at Sediment Trap #2	Stream Restoration
<b>Salt River</b>	95-021	Lofer Cienega Restoration Project	Fencing & Habitat Protection
<b>Salt River</b>	95-022	Gooseberry Watershed Restoration Project	Stream Restoration
<b>Salt River</b>	99-083	Cherry Creek Enhancement Demonstration Project	Stream Restoration
<b>Salt River</b>	05-128	Canyon Creek Riparian Restoration Project, Reach 4-5	Fencing & Habitat Protection
<b>Tonto Creek</b>	95-019	Quantifying Anti-Erosion Traits of Streambank Graminoids	Research
<b>Tonto Creek</b>	99-097	Dakini Valley Riparian Project	Fencing & Revegetation
<b>Upper Hassayampa</b>	99-088	Wickenburg High School Stream Habitat Creation	Constructed Wetland Restoration
<b>Verde River</b>	95-001	Stable Isotope Assessment of Groundwater and Surface Water Interaction – Application to the Verde River Headwaters	Research
<b>Verde River</b>	95-003	Sycamore Creek Riparian Management Area	Fencing
<b>Verde River</b>	95-004	Road Reclamation to Improve Riparian Habitat Along the Hassayampa and Verde Rivers	Revegetation
<b>Verde River</b>	95-006	Critical Riparian Habitat Restoration Along a Perennial Reach of a Verde River Tributary	Stream Restoration
<b>Verde River</b>	95-017	Restoration of Fossil Creek Riparian Ecosystem	Research
<b>Verde River</b>	97-030	Walnut Creek Center for Education and Research – Biological Inventory	Research

<b>Groundwater Basin</b>	<b>AWPF Grant #</b>	<b>Project Title</b>	<b>Project Category</b>
Verde River	98-047	Upper Verde Adaptive Management Unit	Fencing
Verde River	98-050	Watershed Restoration of a High Elevation Riparian Community	Watershed & Stream Restoration
Verde River	98-055	Horseshoe Allotment: Verde Riparian Project II	Fencing & Upland Water Developments
Verde River	98-057	Upper Verde Valley Riparian Area Historical Analysis	Research
Verde River	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	98-059	Verde River Headwaters Riparian Restoration Demonstration Project	Channel Restoration
Verde River	99-078	Aquifer Framework and Ground-Water Flow Paths in Big and Little Chino Basins	Research
Verde River	99-091	Effects of Livestock Use Levels on Riparian Trees on the Verde River	Research
Verde River	03-118	Verde River Riparian Area Partnership Project	Exotic Species Control
Verde River	04-120	Verde River Headwaters 3-D Hydrogeological Model Framework and Visualization	Research
Verde River	05-133	Verde Wild and Scenic River Fence Enclosure	Fencing
Verde River	07-149	Control of Tamarisk on 12 Miles of the Upper Verde River	Habitat Protection
Verde River	08-161	Montezuma Well Riparian Pasture Restoration Project	Habitat Restoration





# Appendix B

**APPENDIX B: Community Water System Annual Report Data 2006-2007 and Submitted Plans**

PCC	FACILITY	Basin	2006 Withdrawn	2006 Diverted	2006 Received	2006 Total Demand	2006 Delivered	2006 Delivered to	2007 Withdrawn	2007 Diverted	2007 Received	2007 Total Demand	2007 Delivered	2007 Delivered to	
91-000692	ARCOSANTI CAMP	AGF	NR							12			12	12	CUSTOMER
91-000638	BLACK CANYON CITY WID	AGF	266			266	247	CUSTOMER	246			246	247	CUSTOMER	
91-000646	BRADSHAW MT VIEW WATER	AGF	184			184	148	CUSTOMER	181			181	145	CUSTOMER	
91-000678	COLDWATER CANYON	AGF	36			36	37	CUSTOMER	NR						
91-000614	COLDWATER CANYON WC	AGF	73			73	73	CUSTOMER	NR						
91-000616	CORDES LAKE WATER COMPANY	AGF	290			290	253	CUSTOMER	283			283	255	CUSTOMER	
91-000645	CORDES LAKES I	AGF	63			63	250	CUSTOMER	55			55	55	CUSTOMER	
91-000657	CORDES LAKES II	AGF	327			327	250	CUSTOMER	355			355	355	CUSTOMER	
91-000658	CORDES LAKES III	AGF	165			165	250	CUSTOMER	171			171	171	CUSTOMER	
91-000659	CORDES LAKES VI, VII, VIII	AGF	621			621	250	CUSTOMER	592			592	592	CUSTOMER	
91-000679	GAMBEL QUAIL MH & RV PARK	AGF	11			11	11	CUSTOMER	11			11	11	CUSTOMER	
91-000628	MAYER DOMESTIC WATER IMPR	AGF	114			114	123	CUSTOMER	108			108	124	CUSTOMER	
91-000655	ORME RANCH SCHOOL	AGF	NR							NR					
91-000662	PHILADELPHIA WATER SYSTEM	AGF	9			9	9	CUSTOMER	9	9		18	9	CUSTOMER	
91-000689	QUARTER CIRCLE V BAR RANCH	AGF	NR							NR					
91-000288	APACHE LAKE MARINA-RESORT	SRB		26		26	26	CUSTOMER		29		29	29	CUSTOMER	
91-000155	APACHE TRAIL MHP	SRB	9			9	8	CUSTOMER	NR						
91-000151	ARROYO WATER CO INC	SRB	8,458			8,458	8458	CUSTOMER	2,686			2,686	2686	CUSTOMER	
91-000160	AUGUST HILLS MHP	SRB	NR							3			3	4	CUSTOMER
91-000117	AZ WATER CO - MIAMI/CLAYPOOL	SRB	968			968	896	CUSTOMER	1,024			1,024	939	CUSTOMER	
91-000374	AZ WATER CO - PINETOP LAKES	SRB	208			208	166	CUSTOMER	228			228	184	CUSTOMER	
91-000527	AZ WATER CO - SAN MANUEL	SRB			646	646	582	CUSTOMER			661	661	582	CUSTOMER	
91-000528	AZ WATER CO - SUPERIOR SYS	SRB	NR							NR					
91-000165	DEROSE TRAILER PARK	SRB	8			8	8	CUSTOMER	8			8	8	CUSTOMER	
91-000122	GLOBE, CITY OF	SRB	1,603			1,603	1441	CUSTOMER	1,642			1,642	1480	CUSTOMER	
91-000162	HOLIDAY HILLS MHP	SRB	4			4	4	CUSTOMER	3			3	3	CUSTOMER	
91-000156	PUEBLO HEIGHTS MHP	SRB	NR							NR					
91-000137	ROOSEVELT LAKE ESTATES	SRB	37			37	32	CUSTOMER	NR						
91-000126	ROOSEVELT LAKE RESORT INC	SRB	NR							NR					
91-000546	THE OAKS MOBILE HOME PARK	SRB	NR							7			7	7	CUSTOMER
91-000120	CHRISTOPHER CREEK HAVEN	TON	11			11	11	CUSTOMER	15			15	13	CUSTOMER	

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PCC	FACILITY	Basin	2006 Withdrawn	2006 Diverted	2006 Received	2006 Total Demand	2006 Delivered	2006 Delivered to	2007 Withdrawn	2007 Diverted	2007 Received	2007 Total Demand	2007 Delivered	2007 Delivered to	
91-000163	CHRISTOPHER CREEK MHP	TON	3			3	3	CUSTOMER	4			4	4	CUSTOMER	
91-000130	EAST VERDE WATER	TON	16			16	15	CUSTOMER	NR						
91-000150	STAR VALLEY MOTEL MH & RV	TON	NR							NR					
91-000138	STAR VALLEY WATER	TON	77			77	72	CUSTOMER	NR						
91-000127	TONTO CREEK UTILITY CO	TON	7			7	7	CUSTOMER	8			8	7	CUSTOMER	
91-000212	TONTO HILLS UTILITY COMPANY	TON	NR							NR					
91-000129	TONTO VILLAGE WATER CO	TON	24			24	20	CUSTOMER	NR						
91-000148	UNITED UTILITIES - DEER CREEK	TON	27			27	26	CUSTOMER	NR						
91-000184	CABALLEROS WATER CO	UHA	96			96	96	CUSTOMER	NR						
91-000615	CONGRESS DWID	UHA	270			270	270	CUSTOMER	259			259	259	CUSTOMER	
91-000189	COUNTRY CLUB ACRES WATER INC	UHA	NR							78			78	78	CUSTOMER
91-000672	ESCAPEES AT NORTH RANCH	UHA	39			39	39	CUSTOMER	47			47	47	CUSTOMER	
91-000267	G LAZY B MOBILE HOME PARK	UHA	NR							NR					
91-000256	STONEHEDGE ESTATES	UHA	5			5	5	CUSTOMER	18			18	18	CUSTOMER	
91-000198	WICKENBURG, TOWN OF	UHA	1,944			1,944	1,944/464	CUSTOMER/OTHER	1,729			1,729	1,729/444	CUSTOMER/OTHER	
91-000642	YARNELL WATER IMPROVEMENT ASSN	UHA	6			6	6	CUSTOMER	9			9	9	CUSTOMER	
91-000643	YAVAPAI COUNTRY CLUB WATER	UHA			5	5					5	5			
91-000605	ABRA WC	VRB	163			163	149	CUSTOMER	169			169	169	CUSTOMER	
91-000606	ASH FORK WATER SERVICE	VRB	125			125	119	CUSTOMER	138			138	126	CUSTOMER	
91-000607	AUBREY WATER CO-SELIGMAN	VRB	176			176	114	CUSTOMER	155			155	126	CUSTOMER	
91-000082	AZ WATER CO - PINWOOD	VRB	342			342	262	CUSTOMER	390			390	286	CUSTOMER	
91-000635	AZ WATER CO - RIMROCK	VRB	326			326	288	CUSTOMER	337			337	301	CUSTOMER	
91-000083	AZ WATER CO - SEDONA WATER SYSTEM	VRB	3,332			3,332	3073	CUSTOMER	3,396			3,396	3131	CUSTOMER	
91-000663	AZ WATER CO - VALLEY VISTA	VRB	420			420	406	CUSTOMER	432			432	413	CUSTOMER	
91-000694	BEAVER CREEK STORE	VRB	8			8	7	CUSTOMER	8			8	7	CUSTOMER	
91-000119	BEAVER VALLEY WC	VRB	7	24		31	31	CUSTOMER	NR						
91-000609	BIG PARK WATER CO	VRB	880			880	833	CUSTOMER	925			925	886	CUSTOMER	
91-000693	BUFFALO RUN MHP	VRB	NR							NR					
91-000649	CAMP VERDE WATER SYS-VER	VRB	12			12	8	CUSTOMER	15			15	15	CUSTOMER	



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91-000610	CAMP VERDE WTR SYSTEM	VRB	460			460	458	CUSTOMER	517			517	517	CUSTOMER	
91-000664	CATHEDRAL ROCK ESTATES WATER COOP	VRB	2			2	2	CUSTOMER	NR						
91-000611	CATHEDRAL VISTA WC	VRB	19			19	19	CUSTOMER	20			20	20	CUSTOMER	
91-000617	CLARKDALE PUBLIC WATER SYSTEM	VRB	405			405	430	CUSTOMER	487			487	435	CUSTOMER	
91-000700	CLEAR CREEK MOBILE HOME	VRB	NR							4			4	4	CUSTOMER
91-000613	CLEMENCEAU WATER CO	VRB	266			266	276	CUSTOMER	254			254	254	CUSTOMER	
91-000702	C-OASIS PARK	VRB	3			3			3			3	3	CUSTOMER	
91-000618	COTTONWOOD WATER WORKS	VRB	1,514			1,514	95/46	CUSTOMER/ OTHER	1,359			1,359	1359	CUSTOMER	
91-000621	CUP OF GOLD WATER CO	VRB	NR							20			20	20	CUSTOMER
91-000698	DELLS VIEW WC	VRB	NR							NR					
91-000121	ER WATER CO-STRAWBERRY	VRB	145			145	107 25	CUSTOMER/ SYSTEM	NR						
91-000131	FLOWING SPRINGS	VRB	NR							NR					
91-000104	FOREST HIGHLANDS WATER CO	VRB	569		4	573	391/4	CUSTOMER/ OTHER	656		4	660	443/4	CUSTOMER/ OTHER	
91-000705	GILPINS TRAILER PARK	VRB	11			11	11	CUSTOMER	NR						
91-000164	GISELA	VRB	55			55	46	CUSTOMER	NR						
91-000152	JAKE'S CORNER	VRB	NR							NR					
91-000626	JEROME, TOWN OF	VRB					90	CUSTOMER	NR						
91-000090	KACHINA VILLAGE UTILITIES	LCR	235			235	196	CUSTOMER	229			229	192	CUSTOMER	
91-000128	LAKE ROOSEVELT GARDENS EAST	VRB	6			6	5	CUSTOMER	NR						
91-000627	LAKE VERDE WATER COMPANY	VRB	19			19	29	CUSTOMER	NR						
91-000158	LAMPLIGHTER RV RESORT	VRB	NR							27			27	27	CUSTOMER
91-000159	LAZY D RANCH MOTEL	VRB	NR							NR					
91-000651	LITTLE PARK WATER CO	VRB	45			45	43	CUSTOMER	44			44	44	CUSTOMER	
91-000124	MEADS RANCH	VRB	2			2	2	CUSTOMER	NR						
91-000133	MESA DEL CABALLO	VRB	NR							NR					
91-000661	MICHAELS RANCH	VRB	13			13	12	CUSTOMER	13			13	12	CUSTOMER	
91-000677	MONTEZUMA HEIGHTS WATER	VRB	24			24	24	CUSTOMER	22			22	22	CUSTOMER	
91-000648	MONTEZUMA RIMROCK WC, LLC	VRB	42			42	38	CUSTOMER	46			46	46	CUSTOMER	
91-000631	OAK CREEK PUBLIC SERVICE, LLC	VRB	66			66	66	CUSTOMER	66			66	66	CUSTOMER	

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91-000665	OAK CREEK VALLEY	VRB	479			479	479	CUSTOMER	568			568	567	CUSTOMER
91-000630	OAK CREEK WATER CO #1	VRB	309			309	280	CUSTOMER	317			317	290	CUSTOMER
91-000134	PAYSON, TOWN OF	VRB	1,815			1,815	1,689/31	CUSTOMER/SYSTEM	1,837			1,837	1732/31	CUSTOMER/SYSTEM
91-000143	PINE CREEK CANYON DWID	VRB	8			8	5	CUSTOMER	NR					
91-000656	PINE VALLEY WATER CO	VRB	47			47	44	CUSTOMER	47			47	45	CUSTOMER
91-000125	PINE WATER ASSN DWID	VRB		8		8	6	CUSTOMER		10		10	10	CUSTOMER
91-000135	PINE WC	VRB	145		27	172	152	CUSTOMER	NR					
91-000392	PINEDALE DOMESTIC WATER	VRB	61			61	59	CUSTOMER	46			46	46	CUSTOMER
91-000153	PONDEROSA GLEN MHP	VRB	NR						NR					
91-000094	PONDEROSA UTILITY CORPORATION	VRB	82			82	77	CUSTOMER	108			108	88	CUSTOMER
91-000110	RAINBOW TP	VRB	NR						NR					
91-000650	RED ROCK CROSSING MOBILE	VRB	6			6	6	CUSTOMER	5			5	5	CUSTOMER
91-000136	RIM TRAIL DWID	VRB	NR						NR					
91-000660	SEDONA VENTURE WATER SYST	VRB	111			111	111	CUSTOMER	112			112	112	CUSTOMER
91-000685	SIERRA VERDE RANCH	VRB	NR						NR					
91-000154	SOLITUDE TRAILS DWID	VRB	NR						34			34	34	CUSTOMER
91-000149	STAR VALE MHP	VRB	NR						NR					
91-000695	SUNSET VILLAGE MOBILE HOME PARK	VRB	NR						10			10	10	CUSTOMER
91-000342	SUNSHINERS MOBILE HOME PK	VRB	NR						5			5	5	CUSTOMER
91-000144	UNITED UTILITIES - GARDENS WEST	VRB	63			63	58	CUSTOMER	NR					
91-000132	UNITED UTILITIES - GERONIMO ESTATES	VRB	5			5	5	CUSTOMER	NR					
91-000706	VERDE LAKES WTR-STILL WTR	VRB	78			78	60	CUSTOMER	48			48	52	CUSTOMER
91-000668	VERDE LKS WATER-CLEAR CK	VRB	75			75	57	CUSTOMER	123			123	56	CUSTOMER
91-000644	VERDE LKS WATER-VERDE LKS	VRB	88			88	74	CUSTOMER	95			95	75	CUSTOMER
91-000812	VERDE SANTA FE	VRB	189			189	176	CUSTOMER	177			177	177	CUSTOMER
91-000667	VERDE VALLEY MANOR	VRB	37			37	37	CUSTOMER	36			36	36	CUSTOMER
91-000140	WHISPERING PINES	VRB	15			15	14	CUSTOMER	NR					
91-000696	WHITE HILLS TRAILER PARK	VRB	41			41	41	CUSTOMER	47			47	47	CUSTOMER
91-000670	WILLOWS MOBILE HOME PARK	VRB	NR						NR					

PCC = Program Certificate Conveyance (used as the community water system ID number)



**Community Water Systems that have submitted a plan to the  
Department as of 12/2008**

<b>PCC</b>	<b>NAME</b>	<b>Basin</b>
91-000614	COLDWATER CANYON WC	AGF
91-000616	CORDES LAKE WATER COMPANY	AGF
91-000628	MAYER DOMESTIC WATER IMPR	AGF
91-000638	BLACK CANYON CITY WID	AGF
91-000645	CORDES LAKES I	AGF
91-000646	BRADSHAW MT VIEW WATER	AGF
91-000657	CORDES LAKES II	AGF
91-000658	CORDES LAKES III	AGF
91-000659	CORDES LAKES VI, VII, VIII	AGF
91-000662	PHILADELPHIA WATER SYSTEM	AGF
91-000692	ARCOSANTI CAMP	AGF
91-000117	AZ WATER CO - MIAMI/CLAYPOOL	SRB
91-000122	GLOBE, CITY OF	SRB
91-000126	ROOSEVELT LAKE RESORT INC	SRB
91-000137	ROOSEVELT LAKE ESTATES	SRB
91-000151	ARROYO WATER CO INC	SRB
91-000155	APACHE TRAIL MHP	SRB
91-000160	AUGUST HILLS MHP	SRB
91-000162	HOLIDAY HILLS MHP	SRB
91-000165	DEROSE TRAILER PARK	SRB
91-000288	APACHE LAKE MARINA-RESORT	SRB
91-000374	AZ WATER CO - PINETOP LAKES	SRB
91-000527	AZ WATER CO - SAN MANUEL	SRB
91-000546	THE OAKS MOBILE HOME PARK	SRB
91-000120	CHRISTOPHER CREEK HAVEN	TON
91-000127	TONTO CREEK UTILITY CO	TON
91-000130	EAST VERDE WATER	TON
91-000138	STAR VALLEY WATER	TON
91-000148	UNITED UTILITIES - DEER CREEK	TON
91-000189	COUNTRY CLUB ACRES WATER INC	UHA
91-000198	WICKENBURG, TOWN OF	UHA
91-000256	STONEHEDGE ESTATES	UHA
91-000615	CONGRESS DWID	UHA
91-000642	YARNELL WATER IMPROVEMENT ASSN	UHA
91-000643	YAVAPAI COUNTRY CLUB WATER	UHA
91-000672	ESCAPEES AT NORTH RANCH	UHA
91-000082	AZ WATER CO - PINWOOD	VRB
91-000083	AZ WATER CO - SEDONA WATER SYSTEM	VRB
91-000094	PONDEROSA UTILITY CORPOR	VRB
91-000104	FOREST HIGHLANDS WATER CO	VRB
91-000121	ER WATER CO-STRAWBERRY	VRB
91-000124	MEADS RANCH	VRB
91-000125	PINE WATER ASSN DWID	VRB
91-000128	LAKE ROOSEVELT GARDENS EAST	VRB
91-000131	FLOWING SPRINGS	VRB
91-000132	UNITED UTILITIES - GERONIMO ESTATES	VRB
91-000133	MESA DEL CABALLO	VRB
91-000134	PAYSON, TOWN OF	VRB
91-000135	PINE WC	VRB
91-000140	WHISPERING PINES	VRB
91-000143	PINE CREEK CANYON DWID	VRB

**Community Water Systems that have submitted a plan to the  
Department as of 12/2008 (Cont)**

<b>PCC</b>	<b>NAME</b>	<b>Basin</b>
91-000144	UNITED UTILITIES - GARDENS WEST	VRB
91-000145	NORTH BAY ESTATES WATER	VRB
91-000154	SOLITUDE TRAILS DWID	VRB
91-000164	GISELA	VRB
91-000342	SUNSHINERS MOBILE HOME PK	VRB
91-000392	PINEDALE DOMESTIC WATER	VRB
91-000605	ABRA WC	VRB
91-000606	ASH FORK WATER SERVICE	VRB
91-000607	AUBREY WATER CO-SELIGMAN	VRB
91-000609	BIG PARK WATER CO	VRB
91-000610	CAMP VERDE WTR SYSTEM	VRB
91-000611	CATHEDRAL VISTA WC	VRB
91-000613	CLEMENCEAU WATER CO	VRB
91-000617	CLARKDALE PUBLIC WATER SYSTEM	VRB
91-000618	COTTONWOOD WATER WORKS	VRB
91-000621	CUP OF GOLD WATER CO	VRB
91-000626	JEROME, TOWN OF	VRB
91-000627	LAKE VERDE WATER COMPANY	VRB
91-000630	OAK CREEK WATER CO #1	VRB
91-000631	OAK CREEK PUBLIC SERVICE, LLC	VRB
91-000635	AZ WATER CO - RIMROCK	VRB
91-000644	VERDE LKS WATER-VERDE LKS	VRB
91-000648	MONTEZUMA RIMROCK WC, LLC	VRB
91-000649	CAMP VERDE WATER SYS-VER	VRB
91-000650	RED ROCK CROSSING MOBILE	VRB
91-000651	LITTLE PARK WATER CO	VRB
91-000656	PINE VALLEY WATER CO	VRB
91-000660	SEDONA VENTURE WATER SYST	VRB
91-000661	MICHAELS RANCH	VRB
91-000663	AZ WATER CO - VALLEY VISTA	VRB
91-000665	OAK CREEK VALLEY	VRB
91-000667	VERDE VALLEY MANOR	VRB
91-000668	VERDE LKS WATER-CLEAR CK	VRB
91-000670	WILLOWS MOBILE HOME PARK	VRB
91-000677	MONTEZUMA HEIGHTS WATER	VRB
91-000685	SIERRA VERDE RANCH	VRB
91-000694	BEAVER CREEK STORE	VRB
91-000695	SUNSET VILLAGE MOBILE HOME PARK	VRB
91-000696	WHITE HILLS TRAILER PARK	VRB
91-000700	CLEAR CREEK MOBILE HOME	VRB
91-000702	C-OASIS PARK	VRB
91-000706	VERDE LAKES WTR-STILL WTR	VRB
91-000810	RINCON COUNTRY EAST RV	VRB

PCC = Program Certificate Conveyance (used as the community water system ID number)



# Appendix C

## APPENDIX C

### SURFACE WATER RIGHT AND ADJUDICATION FILINGS

Surface water is defined in Arizona as “waters of all sources, flowing in streams, canyons, ravines or other natural channels, or in definite underground channels, whether perennial or intermittent, floodwaters, wastewaters, or surplus water, and of lakes, ponds and springs on the surface” (A.R.S. § 45-101).

In 1864, the first territorial legislature of Arizona adopted the doctrine of prior appropriation to govern the use of surface water. The doctrine is based on the tenet of “first in time, first in right” which means that the person who first puts the water to beneficial use acquires a right that is superior to later appropriators of the water. Since the population and water use were both relatively small at that time, no method was initially specified by the legislature for filing surface water right claims or granting rights. By the late 1800s, rapid development of irrigated agriculture combined with drought years had resulted in severe water shortages along the Salt and Gila Rivers. The territorial legislature responded in 1893 with a requirement that new water appropriations be posted at the point of diversion. However, until 1919, a person could acquire a surface water right simply by applying the water to beneficial use and recording a notice of appropriation at the state and country recorder’s office. There still was not a mechanism for granting surface water rights (ADWR, 1992).

On June 12, 1919, the state legislature enacted a surface water code. Now known as the Public Water Code, the law generally requires that a person apply for and obtain a permit in order to appropriate surface water. There is an exception for water use from the mainstem of the Colorado River, which requires a contract with the Secretary of the Interior. In addition, most persons claiming surface water rights prior to the code have been required to file a statement of claim under the Water Rights Registration Act of 1974, although the act did not provide a process for determining the validity of these claims. The legislature also enacted the Stockpond Registration Act in 1977 to recognize certain unpermitted stockponds constructed after 1919 that had not gone through the application process.

The Public Water Code provides that beneficial use shall be the basis, measure and limit to the use of water within the state. Beneficial uses are domestic (which includes the watering of gardens and lawns not exceeding one-half acre), municipal, irrigation, stockwatering, water power, recreation, wildlife including fish, nonrecoverable water storage, and mining uses (A.R.S. § 45-151(A)). The quantity of water that is reasonable for a particular beneficial use depends on a number of factors, including the location of the use.

The Department maintains a registry of surface water right applications and claims filed in Arizona since the Public Water Code was enacted. Each filing is assigned a unique number with one of the following prefixes

- “3R” – application to construct a reservoir filed before 1972;
- “4A” – application to appropriate surface water filed before 1972;
- “33” – application for permit to appropriate public water or construct a reservoir filed after 1972. In addition to surface water diversions and reservoirs, instream flow maintenance

can be applied for and is defined as a surface water right that remains in-situ or “in-stream”, is not physically diverted or consumptively used, and is for maintaining the flow of water necessary to preserve wildlife, including fish, and/or recreation;

- “36” – statement of claim of rights to use public waters of the state. To make this claim, an applicant or predecessor-in-interest must have initiated a water use based on state law before March 17, 1995;
- “38” – claim of water right for a stockpond and application for certification filed for stockponds constructed after June 12, 1919 and before August 27, 1977. To file this claim and application, the stockpond should have been used exclusively for watering of livestock and/or wildlife, have a maximum capacity of 15 acre-feet, and not be subject to water rights litigation or protests prior to August 27, 1977;
- “39” – statement of claimant filed in *The General Adjudication of the Gila River System and Source* (Gila Adjudication) and *The General Adjudication of the Little Colorado River System and Source* (LCR Adjudication). As explained further below, the Department maintains a separate registry of these filings on behalf of the Superior Court of Arizona; and,
- “BB” – decreed water rights determined through judicial action in state or federal court.

These filings specify the source of water, its point of diversion (POD) and place of use (POU), the type and quantity of water use, and date of first use or priority.

If, after moving through a number of administrative steps, an application to appropriate surface water or construct a reservoir (3R, 4A, or 33) is determined to be for beneficial use and not conflict with vested rights or be a menace to public safety or against the interests and welfare of the public, it may be approved and the applicant issued a permit to appropriate. The permit allows the permit holder to construct diversion works, as needed, and put the water to beneficial use. If the terms of the permit are met, the applicant can submit proof of appropriation through an application of certification and may be issued a Certificate of Water Right (CWR). The CWR has a priority date that relates back to the date of application and is evidence of a perfected surface water right that is superior to all other surface water rights with a later priority date, but junior to all rights with an earlier (older) priority date. The CWR also specifies the extent and purpose of the right and may be subject to abandonment and forfeiture if not beneficially used. There are currently approximately 850 applications to appropriate pending with ADWR, and approximately 420 permits and over 7,000 certificates have been issued by ADWR or its predecessors.

A CWR may also be issued based on a stockpond claim (38) if it is found that the facts stated in the claim are true and entitle the claimant to a water right for the stockpond. The priority date depends on the date that the owner of the stockpond filed the claim. If filed prior to March 17, 1996, the priority date is the date of construction. Otherwise, the priority date is the date of filing the claim. Regardless of the date, the CWR for a stockpond claim is junior to (a) Colorado River and other court decreed rights; (b) other rights acquired prior to June 12, 1919 and registered as a statement of claim; and (c) any other CWR issued pursuant to an application filed before August 27, 1977. To date, nearly 20,000 stockpond claims have been filed of which over 3,000 stockpond certificates have been issued by ADWR or its predecessors.

Unlike a CWR, the act of filing a statement of claim (36) does not in itself create a water right, nor does it constitute a judicial determination of the claim. Statements of claim are subject to

challenge, but can be admitted “in evidence as a rebuttal presumption of the truth and accuracy of the information contained in the claim” (A.R.S. § 45-185). To date, nearly 30,000 statements of claim have been filed in Arizona.

In addition to the applications and claims described above, ADWR’s registry of surface water right filings includes several rights determined through judicial action in state or federal court. These ‘adjudications’, in which a water right is determined by court action, may be initiated when one or more water users seek to know how their rights compare to the rights of other water users and/or seek judicial relief from alleged interference with their rights by other water users. The court process establishes or confirms the validity of surface water rights and claims, determines whether these have been properly maintained over the years, and ranks them according to their priority. The result is a decree that may, in addition to establishing and confirming rights, specifies terms under which the decreed rights may be exercised if water shortages occur. Court decreed rights are considered the most valued or certain surface water rights because in the absence of abandonment or forfeiture, they are normally accepted as to their validity. More than 1,000 court-decreed rights are listed in ADWR’s registry and given the prefix “BB”. Further discussion of the major court decrees is provided in Volume 1.

Although several surface water uses have been decreed, many claims and rights established before and after statehood have still not been examined to see if they remain valid. In addition, many water rights established under federal law and claimed by Indian tribes and the United States have not been quantified or prioritized. To better manage water resources in the state, these diverse rights and claims have been joined into large, comprehensive determinations.

Arizona currently has two general stream adjudications – the Gila Adjudication and the LCR Adjudication. The purpose of these judicial proceedings is to determine the nature, extent, and priority of water rights across the entire river systems. In addition to confirming existing state-based surface water rights, the adjudications will quantify and prioritize reserved water rights for Indian and non-Indian federal lands. The latter include military bases, national parks and monuments, and national forests. The adjudications will also determine which wells are pumping appropriable underground water (subflow) and therefore are subject to the jurisdiction of the court. The Gila and LCR Adjudications are being conducted in the Superior Court of Arizona in Maricopa and Apache Counties, respectively. ADWR provides technical, legal and administrative support to the adjudication court, as described in A.R.S. § 45-256.

The Gila Adjudication was initiated in 1974 when SRP filed a petition to determine the water rights in the Salt River Watershed above the Granite Reef Diversion. Since that time, the adjudication area has grown and now covers over 53,000 square miles. It is divided into 7 watersheds and includes 12 Indian reservations and over 24,000 parties. The LCR Adjudication was initiated by a petition filed by Phelps Dodge in 1978. This adjudication now covers 27,000 square miles and includes 3 watersheds, 5 Indian reservations, and over 3,000 parties. A party is a person or entity that has filed one or more statement of claimant (SOC) in the adjudication.

All parties who claim to have a water right within the river systems are required to file an SOC or risk the loss of their right. Well owners are also encouraged to file an SOC since the adjudication process may include water use from a well depending on the well’s location relative to streams and

other factors. However, a person does not obtain a right to use water by filing an SOC nor is an SOC a legal permit to use water. Rights to use water must be acquired in accordance with state or federal law.

Each year, ADWR sends summons to new surface water appropriators and well owners in the adjudication areas that direct them to file an SOC. In response, the number of SOCs filed in the adjudications continues to increase as new water uses are initiated. To date, nearly 81,000 SOCs have been filed in the Gila Adjudication and over 14,000 SOCs have been filed in the LCR Adjudication. ADWR maintains a separate registry of these adjudication filings on behalf of the Superior Court and assigns each a unique number with the prefix “39”.

**Figure C-1 General Stream Adjudications in Arizona**

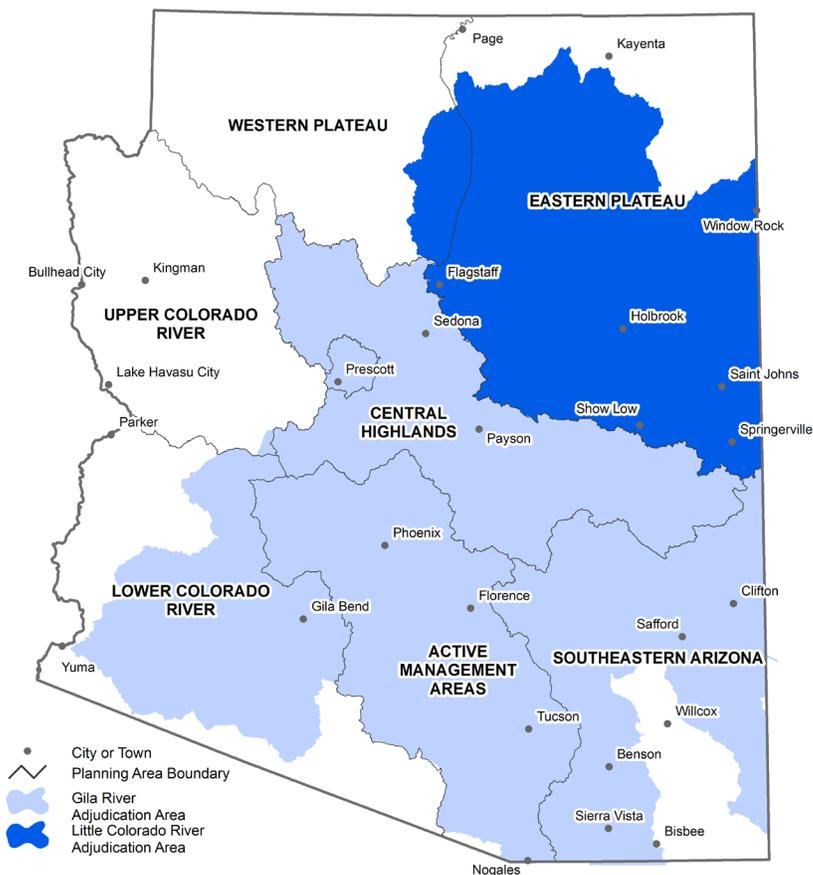


Table C-1 summarizes the number of surface water right and adjudication filings for each planning area. The table was generated by querying ADWR’s surface water right and SOC registries in February 2009. Files are only counted in the table if they include sufficient locational information (Township, Range, and Section) to allow a POD and/or POU to be mapped within the planning area. If a file lists more than one POD or POU in a planning area, it is only counted once in the table for that planning area. However, no attempt was made to avoid counting multiple filings for the same POD/POU which can result if a landowner or lessee has two or more filings or if different applicants each have at least one filing. Since many SOCs list surface water right filings as their basis of claim, multiple filings are common and account, in part, for the large number of filings. Sorting through multiple filings is one of the challenges facing the Department and the adjudication courts. Results from the Department’s investigation of surface water right and adjudication filings are presented in Hydrographic Survey Reports (HSRs).

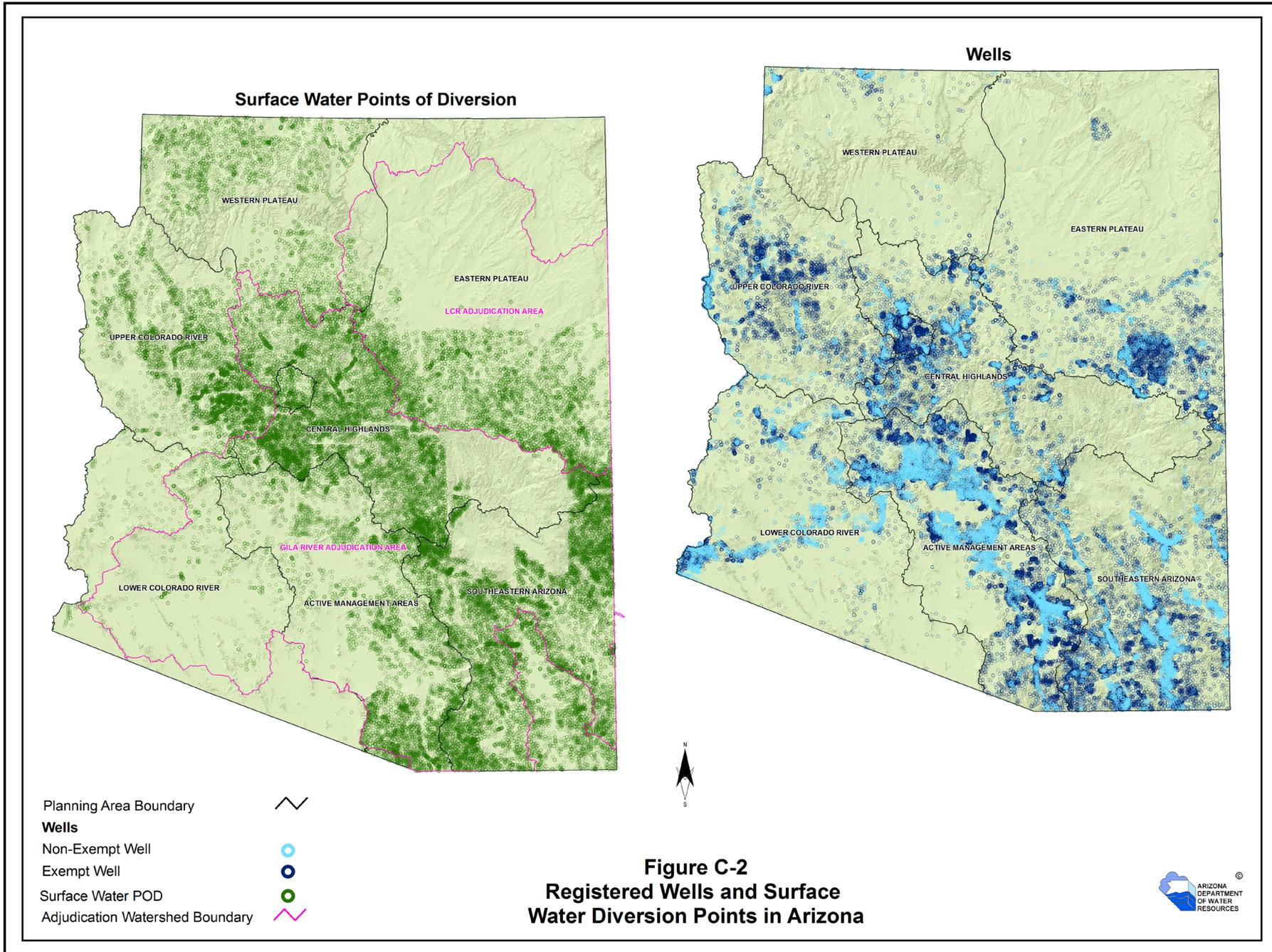
Figure C-2 shows the location of surface water diversion points listed in the Department’s surface water rights registry. The numerous points mapped reflect the relatively large number of stockponds and reservoirs that have been constructed across the state as well as diversions from streams and springs. Locations for registered wells, many of which are referenced as the basis of claim in SOCs, are also shown in Figure C-2. Instream flow filings are not shown as these filings do not have points of diversion.

**Table C-1 Count of Surface Water Right and Adjudication Filings by Planning Area<sup>1</sup>**

PLANNING AREA	TYPE OF FILING							TOTAL
	BB <sup>2</sup>	3R <sup>3</sup>	4A <sup>3</sup>	33 <sup>3</sup>	36 <sup>4</sup>	38 <sup>5</sup>	39 <sup>6</sup>	
Eastern Plateau	134	163	196	373	3,289	3,275	12,099	<b>19,529</b>
Southeastern	483	395	716	898	8,288	6,415	19,288	<b>36,483</b>
Upper Colorado River	0	224	329	469	2,858	2,084	0	<b>5,964</b>
Central Highlands	1	287	625	897	8,517	3,928	25,443	<b>39,698</b>
Western Plateau	0	415	207	554	1,177	1,270	324	<b>3,947</b>
Lower Colorado River	0	26	48	86	355	304	2,323	<b>3,142</b>
Active Management Areas	1	269	341	687	4,072	2,913	27,134	<b>35,417</b>
<b>Total</b>	<b>619</b>	<b>1,779</b>	<b>2,462</b>	<b>3,964</b>	<b>28,556</b>	<b>20,189</b>	<b>86,611</b>	<b>144,180</b>

Notes:

- <sup>1</sup> Based on a query of ADWR's surface water right and adjudication registries in February 2009. A file is only counted in this table if it provides sufficient information to allow a Point of Diversion (POD) and/or Place of Use (POU) to be mapped within the planning area. If a file lists more than one POD or POU in a given planning area, it is only counted once in the table for that planning area. Several surface water right and adjudication filings are not counted here due to insufficient locational information. However, multiple filings for the same POD/POU are counted.
- <sup>2</sup> Court decreed rights; not all of these rights have been identified and/or entered into ADWR's surface water rights registry.
- <sup>3</sup> Application to construct a reservoir, filed before 1972 (3R); application to appropriate surface water, filed before 1972 (4A); and application for permit to appropriate public water or construct a reservoir, filed after 1972 (33).
- <sup>4</sup> Statement of claimant of rights to use public waters of the state, filed pursuant to the Water Rights Registration Act of 1974.
- <sup>5</sup> Claim of water right for a stockpond and application for certification, filed pursuant to the Stockpond Registration Act of 1977.
- <sup>6</sup> Statement of claimant, filed in the Gila or LCR General Stream Adjudications.







# Appendix D

**APPENDIX D: RURAL WATERSHED PARTNERSHIPS ISSUE SUMMARY (2008)**

<b>MULTI-PLANNING AREA - Eastern Plateau, Western Plateau and Central Highlands</b>			
<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
<b>Coconino Plateau Water Advisory Council</b>	Flagstaff Coconino County Williams Sedona Page Tusayan TNC Grand Canyon Trust Navajo Nation Hopi Tribe Havasupai Tribe Hualapai Tribe ADWR ADEQ State Land NRCD NAU USGS USBoR USFS National Parks US Fish and Wildlife Grand Canyon National Park AZ Game and Fish Doney Park Water Co.	<ul style="list-style-type: none"> <li>• 4 categories of potential water augmentation projects have been identified along with their associated costs.</li> <li>• Groundwater study and conceptual model completed</li> <li>• Phase I Water Demand Study for Coconino Plateau</li> <li>• Growth Impacts Study</li> <li>• Western Navajo Pipeline Study</li> <li>• Development of study for importing C aquifer groundwater east of Flagstaff has been completed.</li> <li>• Flagstaff, Hopi and Navajo are exploring cooperative opportunities for developing C aquifer groundwater.</li> <li>• Flagstaff purchased Red Gap Ranch for possible future development of groundwater.</li> <li>• Hopi HSR initiated.</li> <li>• Water Supply Appraisal Study Completed, which identifies current &amp; future demands and alternatives for meeting projected demands.</li> <li>• Numeric Groundwater Model completed</li> <li>• Strategic Plan has been</li> </ul>	<ul style="list-style-type: none"> <li>• Continued growth throughout entire plateau region</li> <li>• Limited and deep groundwater supplies.</li> <li>• Drought sensitive surface water supplies of Williams, Flagstaff and others</li> <li>• Groundwater salinity issues in northeastern part of plateau</li> <li>• Numerous water haulers with few hauling stations that are sometimes cutoff during drought</li> <li>• Unable to get adequate water supply designation under current definition</li> <li>• Growth in Page with no current means of additional supply</li> <li>• ESA issues with groundwater usage and impacts on perennial streams</li> <li>• Potential limitation of groundwater usage resulting from reserved groundwater rights of Indians</li> <li>• Uncertainty of Indian water right settlements (LCR &amp; Colorado River)</li> <li>• Proposed San Juan Paiute reservation west of Flagstaff</li> <li>• Potential impacts on springs in Grand Canyon and also on supplies to Havasupai and Hualapai reservations</li> <li>• Access to water development on public lands</li> <li>• Limited groundwater data for entire region</li> <li>• Minor Arsenic issues in Woody Mtn. Well field (9-14 ppb)</li> <li>• Unregulated lot splits</li> </ul>

<b>MULTI-PLANNING AREA - Eastern Plateau, Western Plateau and Central Highlands</b>			
<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
		<p>completed to address water conservation and management on the Plateau</p> <ul style="list-style-type: none"> <li>• Attempting to obtain Congressional Authority to complete a Feasibility Study of the water alternatives identified</li> </ul>	<ul style="list-style-type: none"> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> <li>• Extremely high cost of water augmentation projects</li> <li>• Competition from Phoenix/Tucson for CAP reallocation water and other Colorado River supplies</li> <li>• Congressional Support for completion of a Feasibility Study</li> <li>• Modifications to the current definition of an adequate water supply resulting from the passage of SB1575</li> </ul>
<b>Northern Arizona Municipal Water Users Association (NAMWUA)</b>	<p>Prescott Flagstaff Cottonwood Sedona Chino Valley</p> <p>Prescott Valley Williams Clarkdale Payson</p>	<ul style="list-style-type: none"> <li>• Projected water demands through 2040 have been identified</li> <li>• A request for 70,000 acre-feet of CAP reallocation water has been submitted to ADWR for consideration.</li> <li>• Completed Colorado River Supply Study</li> </ul>	<ul style="list-style-type: none"> <li>• Limited supplies to meet projected demands</li> <li>• ESA issues impacting potential ground and surface water supplies</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> <li>• Competition from Phoenix/Tucson for CAP reallocation water and other Colorado River supplies</li> <li>• Funding for Colorado River infrastructure</li> <li>• Water quality issues in Verde Valley and Flagstaff</li> <li>• Upper Basin/Lower Basin issues with Colorado River affect potential for use</li> <li>• Modifications to the current definition of an adequate water supply resulting from the passage of SB1575</li> </ul>



**CENTRAL HIGHLANDS PLANNING AREA**

<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
<b>Mogollon Highlands Partnership</b>	<p>Payson Pine Strawberry Gila County</p> <p>Brooks Utilities Rim Trails WID Pine Strawberry WID Local citizens and special interests</p> <p>Tonto Apache Nation</p> <p>ADWR SRP</p> <p>USFS USBoR USGS</p>	<ul style="list-style-type: none"> <li>• Comprehensive groundwater study and conceptual model completed.</li> <li>• Completed Water Supply Appraisal Study to identify current &amp; future demands and alternatives for meeting projected demands.</li> <li>• Strategic Plan completed</li> <li>• Feasibility study and cost estimates for Blue Ridge Reservoir pipeline completed</li> <li>• Obtained approximately 3,500 ac-ft of surface water from Craigen Reservoir.</li> <li>• Numeric groundwater model completed.</li> </ul>	<ul style="list-style-type: none"> <li>• Limited water resources to meet current demands.</li> <li>• Environmental, supply, treatment, transportation and financing costs associated with augmentation from Blue Ridge reservoir</li> <li>• Numerous private water companies, Arizona Corporation Commission and Domestic Water Improvement District conflicts</li> <li>• Interbasin transfer conflicts resulting from Payson's ability to pump from two different basins</li> <li>• Seasonal demand issues; peaking problems</li> <li>• County encouragement of growth in Pine and Strawberry</li> <li>• Unresolved Indian water rights settlements</li> <li>• Environmental issues pertaining to Fossil Creek</li> <li>• Limited groundwater data for entire region</li> <li>• Costs associated with hauling water</li> <li>• Access to water development on public lands</li> <li>• Infrastructure needs for private water companies</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> </ul>
<b>Upper Agua Fria Watershed Partnership</b>	<p>Mayer Black Canyon City</p> <p>Cordes Lakes Yavapai County Spring Valley</p> <p>Local Citizens</p> <p>ADWR ADEQ Cooperative Extension State Lands</p>	<ul style="list-style-type: none"> <li>• Watershed Reconnaissance studies</li> <li>• Active recharge site identification study.</li> <li>• Corp of Engineers watershed appraisal study completed</li> <li>• Corp of Engineers watershed feasibility study initiated</li> <li>• Completed wet dry mapping of Agua Fria R.</li> </ul>	<ul style="list-style-type: none"> <li>• Proposed growth in the Mayer, Bensch Ranch and Spring Valley areas</li> <li>• Limited groundwater supplies</li> <li>• Little or no groundwater data</li> <li>• Groundwater and surface water supplies are very drought sensitive</li> <li>• Potential water quality attributed to local septic systems and discharges from Prescott Valley</li> <li>• Poorly constructed and maintained infrastructure in some areas</li> </ul>

**CENTRAL HIGHLANDS PLANNING AREA**

<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
	BLM/Agua Fria Nat. Monument USFS	<ul style="list-style-type: none"> <li>• Groundwater quality study completed</li> </ul>	<ul style="list-style-type: none"> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> </ul>
<b>Yavapai Water Advisory Committee</b>	<p>Prescott Valley Chino Valley Yavapai County Camp Verde Cottonwood</p> <p>24 local special interest groups TNC</p> <p>Yavapai Apache Prescott</p> <p>ADWR SRP Cooperative Extension NAU</p> <p>USFS USBoR</p> <p>Prescott Paulden Sedona Clarkdale Jerome</p> <p>Yavapai</p> <p>ADEQ NRCD</p> <p>USGS USF&amp;W</p>	<ul style="list-style-type: none"> <li>• Comprehensive groundwater study and conceptual model</li> <li>• Study of geologic framework of aquifer units and groundwater flow paths of Verde River headwaters using aeromagnetic and gravity data.</li> <li>• Verde River Watershed Study.</li> <li>• Water educational forum conducted for WAC and public with ultimate goal of developing water management plan for Verde watershed area.</li> <li>• Big Chino Subbasin Historical and Current Water Uses and Water Use Projections study.</li> <li>• Riparian demand study of Middle Verde</li> <li>• Numeric groundwater model completed.</li> <li>• Prescott AMA groundwater model.</li> <li>• Study of groundwater flow paths for upper and middle Verde using stable isotopes.</li> <li>• Prescott purchased JWK Ranch in Big Chino to import 8,717 ac-ft annually to Prescott and</li> </ul>	<ul style="list-style-type: none"> <li>• Potential impacts resulting from the transfer of 8,717 ac-ft from Big Chino to Prescott and Prescott Valley</li> <li>• 25,000 to 30,000 approved lots still outstanding in Prescott AMA</li> <li>• Multiple developments currently under construction in the tri-city region of the AMA</li> <li>• ESA issues associated with the Verde</li> <li>• Proposed critical habitat area in Verde Valley for Willow Fly Catcher</li> <li>• New Arsenic standards</li> <li>• Pending Subflow decision</li> <li>• Political and philosophical differences between AMA and Verde Valley</li> <li>• Countywide growth and unregulated lot splits</li> <li>• Indian water rights</li> <li>• Thousands of private domestic wells already permitted and more being requested daily</li> <li>• Potential water quality impacts on groundwater system from the thousands of septic systems</li> <li>• Potential development rumors of the CVCF Ranch in the Big Chino</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> </ul>



<b>CENTRAL HIGHLANDS PLANNING AREA</b>			
<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
		Prescott Valley • Groundwater monitoring program in Big Chino initiated. • Developed water demand scenarios to run on groundwater model • Initiated Water Supply Appraisal Study with BOR/ADWR	