

## ACRONYMS AND ABBREVIATIONS

AAWS	Analysis of Adequate Water Supply
A.R.S.	Arizona Revised Statutes
ADEQ	Arizona Department of Environmental Quality
ADOC	Arizona Department of Commerce
ADOT	Arizona Department of Transportation
ADWR	Arizona Department of Water Resources
AF	Acre-feet
AFA	Acre-feet per year
AZGF	Arizona Game and Fish Department
ALERT	Automated Local Evaluation in Real Time
ALRIS	Arizona Land Resource Information System
AMA	Active Management Area
APS	Arizona Public Service
ASPC	Arizona State Prison Complex
ASLD	Arizona State Land Department
AUM	Abandoned Uranium Mines
AWPF	Arizona Water Protection Fund
AWS	Assured Water Supply
AZMET	Arizona Meteorological Network
BIA	Bureau of Indian Affairs (U.S.)
BLM	Bureau of Land Management (U.S.)
bls	Below Land Surface
CDP	Census Designated Place
CFD	Community Facilities District
CLIMAS	Climate Assessment for the Southwest
CODE	Arizona Groundwater Management Act - A.R.S. § 45-401 et seq.
COE	Corps of Engineers (U.S.)
CWR	Certificate of Water Right
CWS	Community Water System
DOD	Department of Defense (U.S.)
DOE	Department of Energy (U.S.)
DWID	Domestic Water Improvement District
EIS	Environmental Impact Statement
ENSO	El Nino/Southern Oscillation
EPA	Environmental Protection Agency (U.S.)
ESA	Endangered Species Act - 7 U.S.C. 136; 16 U.S.C. 460 et seq.
FY	Fiscal Year
GPCD	Gallons Per Capita Per Day
gpm	Gallons per minute
GWSI	Groundwater Site Inventory
HSR	Hydrographic Survey Report
HUC	Hydrologic Unit Code
ID	Irrigation District
INA	Irrigation Non-expansion Area
ITCA	Inter Tribal Council of Arizona

---

LCR	Little Colorado River
LDIG	Local Drought Impact Group
LUST	Leaking Underground Storage Tank
maf	Million acre-feet
mg/l	Milligrams per liter
mgd	Million gallons per day
MGS	Mohave Generating Station
MHP	Mobile Home Park
NDEQ	Navajo Department of Environmental Quality
NDWR	Navajo Department of Water Resources
NEMO	Non-point Education for Municipal Officials
NGS	Navajo Generating Station
NOAA	National Oceanic and Atmospheric Administration
NPS	National Park Service (U.S.)
NRA	National Recreation Area
NRCD	Natural Resources Conservation District
NRCS	Natural Resources Conservation Service
NTUA	Navajo Tribal Utility Authority
NWS	National Weather Service
OSM/	
OSMRE	Office of Surface Mining Reclamation and Enforcement
Pan ET	Pan evaporation
P.L.	Public Law
PCC	Program Certificate Conveyance
PCE	Perchloroethylene
PWCC	Peabody Western Coal Company
RCD	Resource Conservation District
RCRA	Resource Conservation Recovery Act
RWA	Rapid Watershed Assessment
SB	Senate Bill
SCS	Soil Conservation Service (U.S.)
SNOTEL	SNOWpack TELemetry
SOC	Statement of Claimant
SRP	Salt River Project
sq. mi.	Square miles
SWE	Snow Water Equivalent
TCE	Trichloroethylene
TDS	Total dissolved solids
UMTRA	Uranium Mill Tailings Remedial Action
USBOR	U.S. Bureau of Reclamation
USDA	U.S. Department of Agriculture
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USIHS	U.S. Indian Health Service
VOC	Volatile organic compound

## APPENDIX A

**Appendix A**  
**Arizona Water Protection Fund Projects**  
**In the Eastern Plateau Planning Area through FY 2008**

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

<b>Groundwater Basin</b>	<b>AWPF Grant #</b>	<b>Project Title</b>	<b>Project Category</b>
<b>Little Colorado River Plateau</b>	00-101	Murray Basin and Saffell Canyon Watershed Restoration Project	Watershed Restoration
<b>Little Colorado River Plateau</b>	00-104	Continued Enhancement of Pueblo Colorado Wash at Hubbell Trading Post National Historic Site	Exotic Species Control & Stream Restoration
<b>Little Colorado River Plateau</b>	00-105	Hubbell Trading Post Riparian Restoration with Treated Effluent	Revegetation
<b>Little Colorado River Plateau</b>	00-108	Lake Mary Watershed Streams Restoration	Channel Restoration
<b>Little Colorado River Plateau</b>	00-110	Upper Fairchild Draw Riparian Restoration	Fencing & Revegetation
<b>Little Colorado River Plateau</b>	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
<b>Little Colorado River Plateau</b>	00-113	Polacca Wash Grazing Management	Fencing & Exotic Species Control w/ Revegetation
<b>Little Colorado River Plateau</b>	03-119	Wet Meadows for Water Quality and Wildlife – A Riparian Restoration Project	Fencing & Habitat Protection
<b>Little Colorado River Plateau</b>	05-125	Wilkins’ family Little Colorado River Riparian Enhancement Project	Stream Restoration
<b>Little Colorado River Plateau</b>	05-126	X Diamond Ranch LCR Riparian Enhancement Project	Stream Restoration
<b>Little Colorado River Plateau</b>	05-127	EC Bar Ranch Reach 8 Water Well and Drinker Project	Water Developments
<b>Little Colorado River Plateau</b>	06-136	The Arboretum at Flagstaff Wetland Habitat Enhancement	Habitat Restoration
<b>Little Colorado River Plateau</b>	07-141	Picture Canyon Rio de Flag Meander Restoration Project	Stream Restoration
<b>Little Colorado River Plateau</b>	07-143	Little Colorado River & Nutrioso Creek Riparian Enhancement Project	Stream Restoration

<b>Groundwater Basin</b>	<b>AWPF Grant #</b>	<b>Project Title</b>	<b>Project Category</b>
<b>Little Colorado River Plateau</b>	07-146	Little Colorado River Project on H-Y Ranch River Recovery Project	Fencing & Habitat Restoration
<b>Little Colorado River Plateau</b>	07-150	Fairchild Draw Riparian Restoration Project	Fencing & Habitat Restoration
<b>Little Colorado River Plateau</b>	07-154	Billy Creek Natural Area Riparian Restoration Project	Stream Restoration
<b>Little Colorado River Plateau</b>	08-159	Hoxworth Springs Stream Channel Restoration Project	Fencing & Stream Restoration

## APPENDIX B

**APPENDIX B: Community Water System Annual Report Data 2006-2007 and Submitted Plans (all values are in acre-feet)**

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
91-000396	303 DOMESTIC WTR IMPROVEMENT DISTRICT	LCR	2			2	2	CUSTOMER	3			3	3	CUSTOMER
91-000386	A PETERSEN WATER CO	LCR	10			10	9	CUSTOMER	12			12	11	CUSTOMER
91-000100	ADOT GRAY MOUNTAIN M/C	LCR	7			7	7	CUSTOMER	10			10	10	CUSTOMER
91-000108	ADOT PAGE YARD & M/C	LCR	15			15	15	CUSTOMER	13			13	13	CUSTOMER
91-000004	ARIZONA WINDSONG WC	LCR	8			8	9	CUSTOMER	9			9	16	CUSTOMER
91-000021	ASPC APACHE	LCR	NR						NR					
91-000408	ASPC WINSLOW APACHE	LCR	NR						NR					
91-000365	AZ WATER CO - LAKESIDE	LCR	792			792	757 3	CUSTOMER/SYSTEM	898			898	818	CUSTOMER
91-000366	AZ WATER CO - OVERGAARD	LCR	503			503	453	CUSTOMER	540			540	468	CUSTOMER
91-000409	BLACK MESA RANGER DISTRICT	LCR	9			9	9	CUSTOMER	13			13	14	CUSTOMER
91-000393	BOURDON RANCH ESTATES	LCR	7			7	7	CUSTOMER	9			9	8	CUSTOMER
91-000402	BUCKSKIN ARTISTS COMMUNITY	LCR	65			65	65	CUSTOMER	57			57	57	CUSTOMER
91-000018	CEDAR GROVE WATER CO	LCR	54			54	49 4	CUSTOMER/SYSTEM	69			69	68 17	CUSTOMER/SYSTEM
91-000390	CHAPARRAL PINES	LCR	13			13	13	CUSTOMER	NR					
91-000368	CLAY SPRINGS DWID	LCR	43			43	39	CUSTOMER	45			45	44	CUSTOMER
91-000403	COUNTRY LANE TRAILER PARK	LCR	NR						NR					
91-000003	CROSBY SPRING AT GREER	LCR	NR						NR					
91-000084	DONEY PARK WATER	LCR	783			783	782	CUSTOMER	809			809	832	CUSTOMER
91-000002	EAGAR, TOWN OF	LCR	595	105		700	668 98	CUSTOMER/OTHER	557			557	632 134	CUSTOMER/OTHER
91-000398	EL RANCHO GRANDE	LCR	22			22	22	CUSTOMER	22			22	22	CUSTOMER
91-000106	FLAGSTAFF RANCH WATER CO	LCR	52			52	53	CUSTOMER	41			41	41	CUSTOMER
91-000086	FLAGSTAFF, CITY OF	LCR	6857	1628		8485	7890 2286	CUSTOMER/OTHER	8506	334		8840	8224 4990	CUSTOMER/OTHER
91-000098	FOREST LAKES WATER IMPROV	LCR	235			235	235	CUSTOMER	NR					
91-000099	GREENHAVEN WATER CO	LCR	NR						NR					
91-000371	HEBER DOMESTIC WID	LCR	138			138	138	CUSTOMER	144			144	144	CUSTOMER
91-000089	HECKETHORN WATER COMPANY	LCR	13			13	12	CUSTOMER				0		
91-000111	HIDDEN HOLLOW MOBILE HOM	LCR	10			10	10	CUSTOMER	19			19	19	CUSTOMER
91-000014	HIDDEN MEADOW RANCH	LCR	13			13	13	CUSTOMER	NR					

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
91-000405	HIGH COUNTRY PINES WATER	LCR	30			30	30	CUSTOMER	34			34	30	CUSTOMER
91-000372	HOLBROOK, CITY OF	LCR	790			790	790	CUSTOMER	801			801	801	CUSTOMER
91-000373	JOSEPH CITY UTILITY	LCR	NR					NR						
91-000112	KACHINA VILLAGE MHP	LCR			20	20	20	CUSTOMER			15	15	15	CUSTOMER
91-000363	LAGUNA ESTATES	LCR	8			8	8	CUSTOMER	NR					
91-000103	LAKE MARY COUNTRY STORE	LCR	NR					NR						
91-000400	LINDEN TRAILS	LCR	NR					15			15	15	CUSTOMER	
91-000011	LIVCO WATER COMPANY	LCR	115			115	100 12	CUSTOMER/ SYSTEM	147		3	150	94 15	CUSTOMER/ SYSTEM
91-000091	MORMON LAKE WC	LCR	7		2	9	6	CUSTOMER	7		1	8	5	CUSTOMER
91-000092	MOUNTAIN DELL WATER INC	LCR	22			22	23	CUSTOMER	23			23	22	CUSTOMER
91-000379	MT GLEN WS-LINDEN EAST	LCR	74			74	67	CUSTOMER	68			68	68	CUSTOMER
91-000395	NAVAJO CO GOVT COMPLEX	LCR	64			64	64	CUSTOMER	NR					
91-000016	OJO BONITO ESTATES DWID	LCR	4			4	5	CUSTOMER	6			6	5	CUSTOMER
91-000006	OLD CONCHO WATER USERS	LCR	NR					NR						
91-000093	PAGE, CITY OF	LCR		2250		2250	1898 97 719	CUSTOMER/ SYSTEM/OTHER		2331		2331	2024	CUSTOMER
91-000369	PARK VALLEY - FOOLS HOLLOW	LCR	185			185	170	CUSTOMER	200			200	183	CUSTOMER
91-000005	PINECREST WATER CO INC	LCR	3			3	3	CUSTOMER	3			3	3	CUSTOMER
91-000375	PINETOP WTR COM FACIL DIS	LCR	468			468	467	CUSTOMER	478			478	407	CUSTOMER
91-000376	PINEVIEW LAND AND WATER C	LCR	335		6	341	279 1	CUSTOMER/ SYSTEM	367			367	288 1	CUSTOMER/ SYSTEM
91-000377	PONDEROSA WATER CO	LCR	484			484	484	CUSTOMER	592			592	592	CUSTOMER
91-000370	PORTER CREEK DWID	LCR	25			25	27	CUSTOMER	27			27	27	CUSTOMER
91-000378	PORTER MOUNTAIN DWID	LCR	16			16	14	CUSTOMER	19			19	17 1	CUSTOMER/ SYSTEM
91-000404	RUNNING BEAR MOBIL RESORT	LCR	8			8	8	CUSTOMER	NR					
91-000013	SANDERS SCHOOL DISTRICT	LCR	NR					NR						
91-000020	SERVICEBERRY WATER CO	LCR	5			5	5	CUSTOMER	4			4	4	CUSTOMER
91-000022	SHOW LOW CROSSROADS HOA	LCR	4			4	4	CUSTOMER	NR					
91-000380	SHOW LOW, CITY OF	LCR	1485			1485	1352/3/898	CUSTOMER/ SYSTEM/OTHER	1651			1651	1543	CUSTOMER
91-000381	SILVER WELL SERVICE CORP	LCR	50			50	48	CUSTOMER	56			56	59	CUSTOMER
91-000391	SITGREAVES WATER CO	LCR	8			8	8	CUSTOMER	NR					



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	
91-000382	SKY-HI DOMESTIC IMP DIST	LCR	NR						18				18	18	CUSTOMER
91-000383	SNOWFLAKE, TOWN OF	LCR	1416			1416	1416/299	CUSTOMER/ OTHER	1621			1621	1627/305	CUSTOMER/ OTHER	
91-000008	SPRINGVILLE, TOWN OF	LCR	290			290	290	CUSTOMER	286			286	286	CUSTOMER	
91-000007	ST JOHNS, CITY OF	LCR	662			662	578	CUSTOMER	726			726	618	CUSTOMER	
91-000384	SUMMER PINES WATER CO	LCR	36			36	29	CUSTOMER	NR						
91-000364	SUN VALLEY UTILITIES COR	LCR	54			54	54	CUSTOMER	52			52	52	CUSTOMER	
91-000399	SWEETWATER RANCH	LCR	21			21	21	CUSTOMER	36			36	36	CUSTOMER	
91-000096	TALL PINES ESTATES WATER	LCR	4			4	4	CUSTOMER	7			7	7	CUSTOMER	
91-000385	TAYLOR, TOWN OF	LCR	871			871	870	CUSTOMER	973			973	972	CUSTOMER	
91-000407	THE PINES AT SHOWLOW MASTER PROP HOA INC	LCR	NR						NR						
91-000023	THE WILDERNESS	LCR	NR						NR						
91-000367	TIMBERLAND ACRES	LCR	54			54	47	CUSTOMER	60			60	53	CUSTOMER	
91-000401	TIMBERLINE MOBILE HOME PK	LCR	23			23	23	CUSTOMER	23			23	23	CUSTOMER	
91-000010	TK WATER SERVICE	LCR	8			8	8	CUSTOMER	9			9	9	CUSTOMER	
91-000157	TWIN LAKES MOBILE PARK	LCR	21			21	21	CUSTOMER	NR						
91-000113	USFS-CONF-BLUE RIDGE R/S	LCR	2			2	1	CUSTOMER	4			4	3	CUSTOMER	
91-000012	VERNON D W I D	LCR	12			12	12	CUSTOMER	NR						
91-000095	WEST VILLAGE WATER CO	LCR	6			6	6	CUSTOMER	8		1	9	7	CUSTOMER	
91-000387	WHITE MOUNTAIN LAKES EST	LCR	NR						NR						
91-000389	WHITE MOUNTAIN SUMMER HO	LCR	77			77	85	CUSTOMER	NR						
91-000406	WHITE MOUNTAIN WATER CO	LCR	65			65	63	CUSTOMER	78			78	67	CUSTOMER	
91-000017	WINCHESTER TRAILS	LCR	28			28	28	CUSTOMER	NR						
91-000074	WINCHESTER WATER CO. LLC	LCR	61			61	62	CUSTOMER	63			63	63	CUSTOMER	
91-000388	WINSLOW, CITY OF	LCR	1744	2000		3744	1744	CUSTOMER	1706	1100		2806	1706	CUSTOMER	
91-000397	WONDERLAND ACRES DWID	LCR	NR						38			38	38	CUSTOMER	
91-000394	WOODRUFF DOMESTIC WTR CO	LCR	NR						NR						

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

**Community Water System Plans submitted to the  
Department as of 12/2008**

<b>PCC</b>	<b>NAME</b>	<b>BASIN</b>
91-000396	303 DOMESTIC WTR IMPRO DISTRICT	LCR
91-000386	A PETERSEN WATER CO	LCR
91-000100	ADOT GRAY MOUNTAIN M/C	LCR
91-000108	ADOT PAGE YARD & M/C	LCR
91-000365	AZ WATER CO - LAKESIDE	LCR
91-000366	AZ WATER CO - OVERGAARD	LCR
91-000409	BLACK MESA RANGER DISTRICT	LCR
91-000393	BOURDON RANCH ESTATES	LCR
91-000402	BUCKSKIN ARTISTS COMMUNITY	LCR
91-000018	CEDAR GROVE WATER CO	LCR
91-000390	CHAPARRAL PINES	LCR
91-000368	CLAY SPRINGS DWID	LCR
91-000084	DONEY PARK WATER	LCR
91-000002	EAGAR, TOWN OF	LCR
91-000398	EL RANCHO GRANDE	LCR
91-000106	FLAGSTAFF RANCH WATER CO	LCR
91-000086	FLAGSTAFF, CITY OF	LCR
91-000098	FOREST LAKES WATER IMPROVEMENT DISTRICT	LCR
91-000371	HEBER DOMESTIC WID	LCR
91-000111	HIDDEN HOLLOW MOBILE HOM	LCR
91-000014	HIDDEN MEADOW RANCH	LCR
91-000405	HIGH COUNTRY PINES WATER	LCR
91-000372	HOLBROOK, CITY OF	LCR
91-000112	KACHINA VILLAGE MHP	LCR
91-000090	KACHINA VILLAGE UTILITIES	LCR
91-000363	LAGUNA ESTATES	LCR
91-000103	LAKE MARY COUNTRY STORE	LCR
91-000400	LINDEN TRAILS	LCR
91-000011	LIVCO WATER COMPANY	LCR
91-000091	MORMON LAKE WC	LCR
91-000092	MOUNTAIN DELL WATER INC	LCR
91-000379	MT GLEN WS-LINDEN EAST	LCR
91-000016	OJO BONITO ESTATES DWID	LCR
91-000093	PAGE, CITY OF	LCR
91-000369	PARK VALLEY - FOOLS HOLLOW	LCR
91-000005	PINECREST WATER CO INC	LCR
91-000376	PINEVIEW LAND AND WATER CO	LCR
91-000377	PONDEROSA WATER CO	LCR
91-000370	PORTER CREEK DWID	LCR
91-000378	PORTER MOUNTAIN DWID	LCR
91-000404	RUNNING BEAR MOBIL RESORT	LCR
91-000020	SERVICEBERRY WATER CO	LCR
91-000381	SILVER WELL SERVICE CORP	LCR
91-000382	SKY-HI DOMESTIC IMP DIST	LCR
91-000383	SNOWFLAKE, TOWN OF	LCR
91-000008	SPRINGERVILLE, TOWN OF	LCR
91-000102	STARLIGHT WATER COMPANY	LCR
91-000384	SUMMER PINES WATER CO	LCR
91-000364	SUN VALLEY UTILITIES CORP	LCR

<b>PCC</b>	<b>NAME</b>	<b>BASIN</b>
91-000399	SWEETWATER RANCH	LCR
91-000096	TALL PINES ESTATES WATER	LCR
91-000385	TAYLOR, TOWN OF	LCR
91-000367	TIMBERLAND ACRES	LCR
91-000010	TK WATER SERVICE	LCR
91-000157	TWIN LAKES MOBILE PARK	LCR
91-000113	USFS-CONF-BLUE RIDGE R/S	LCR
91-000095	WEST VILLAGE WATER CO	LCR
91-000389	WHITE MOUNTAIN SUMMER HOMES	LCR
91-000406	WHITE MOUNTAIN WATER CO	LCR
91-000074	WINCHESTER WATER CO. LLC	LCR
91-000388	WINSLOW, CITY OF	LCR

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.

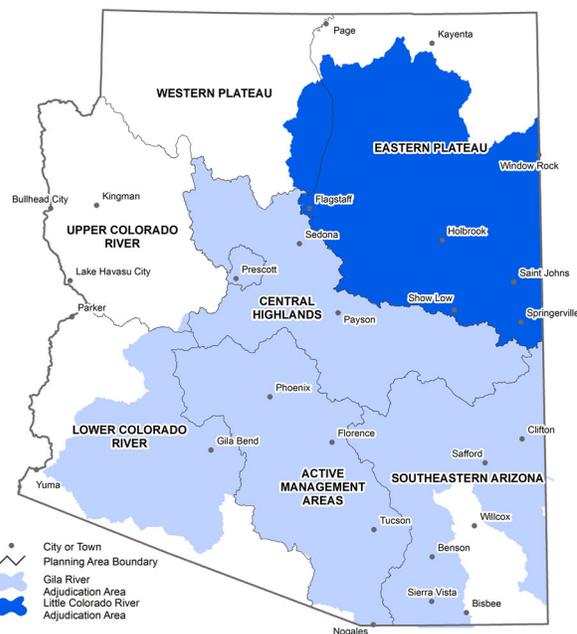
Unlike a CWR, the act of filing a statement of claim (36) does not in itself create a water right, nor does it constitute a judicial determination of the claim. Statements of claim are subject to challenge, but can be admitted “in evidence as a rebuttal presumption of the truth and accuracy of the information 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-

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



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".

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).

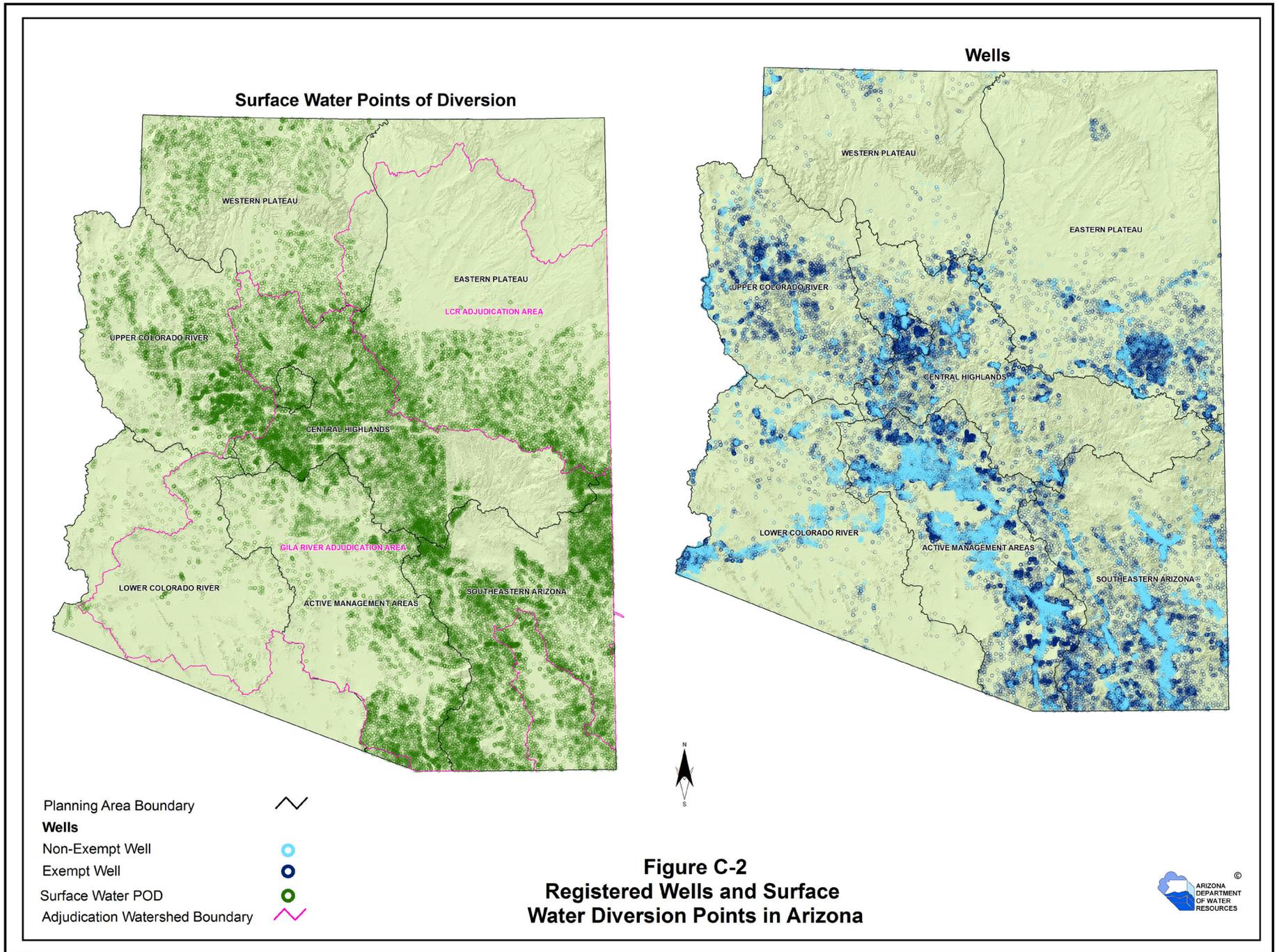
Figure C-2 shows the location of surface water diversion points listed in the Department's surface water rights registry. The numerous points mapped reflect the relatively large number of stockponds and reservoirs that have been constructed across the state as well as diversions from streams and springs. 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)**

Rural watershed partnership participants, projects, accomplishments and issues are summarized below. Some partnerships include more than one planning area as noted.

<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> </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> </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>
		<ul style="list-style-type: none"> <li>• Numeric Groundwater Model completed</li> <li>• Strategic Plan has been completed to address water conservation and management on the Plateau</li> <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 groundwater data for entire region</li> <li>• Minor Arsenic issues in Woody Mtn. Well field (9-14 ppb)</li> <li>• Unregulated lot splits</li> <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>	Prescott Flagstaff Cottonwood Sedona Chino Valley Prescott Valley Williams Clarkdale Payson	<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>



<b>EASTERN PLATEAU PLANNING AREA</b>				
<b>Watershed Partnership</b>	<b>Primary Participants</b>		<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
<b>Little Colorado Watershed Coordinating Council</b> (Formerly Little Colorado River Multi-Objective Management Partnership (LCRMOM))	Winslow Navajo County	Holbrook	<ul style="list-style-type: none"> <li>• Development and Ecosystem Restoration Program study for the Montane Forest Regimes completed.</li> <li>• Watershed reconnaissance study completed</li> <li>• Completed Watershed Based Plan</li> </ul>	<ul style="list-style-type: none"> <li>• Potential impacts on groundwater from power plants</li> <li>• Water quality issues involving arsenic and TDS</li> <li>• Unresolved adjudication and Indian water rights settlements</li> <li>• Limited groundwater data for entire region</li> <li>• Invasive species (Tamarisk)</li> <li>• ESA issues</li> <li>• Drought impacts on surface water supplies</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> <li>• Modifications to the current definition of an adequate water supply resulting from the passage of SB1575</li> </ul>
	NRCO/RCD	NAU		
	USBoR	COE		
<b>Navajo Nation</b>	NDWR	NTUA	<ul style="list-style-type: none"> <li>• Survey of agricultural lands in Upper Basin</li> <li>• Groundwater elevation survey of NTUA wells</li> <li>• Water Quality ATLAS</li> <li>• Navajo Drought Report</li> <li>• Western Navajo Water Supply Study</li> </ul>	<ul style="list-style-type: none"> <li>• Lack of technical groundwater data</li> <li>• Limited groundwater supplies to meet projected demands</li> <li>• Water quality issues</li> <li>• Prone to impacts from drought</li> <li>• Unresolved water right claims to LCR, Colorado R. &amp; San Juan R.</li> <li>• Upper Basin/Lower Basin issues with Colorado River</li> <li>• Gallup to Window Rock Pipeline in jeopardy (financial, upper/lower basin issues, ESA and others)</li> </ul>
	NDEQ	NHA		
	ADWR			
	USBoR BIA	COE HIS		

<b>EASTERN PLATEAU PLANNING AREA</b>			
<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
<b>Pinetop-Lakeside Watershed Enhancement Partnership</b>	Show Low Lakeside Pinetop Navajo County  Show Low Creek Irrigation District  Local Citizenry LCRWCC  ADWR AZ Game & Fish	<ul style="list-style-type: none"> <li>• Groundwater elevations study</li> <li>• GPS survey of agricultural lands</li> <li>• Preliminary water budget completed.</li> <li>• Received 319 Grant to address water quality issues in Rainbow Lake</li> <li>• Water Protection Fund Grant for Billy Creek Project</li> <li>• Completed Watershed Based Plan</li> <li>• Obtained TRIF Grant to conduct groundwater age dating</li> </ul>	<ul style="list-style-type: none"> <li>• Drought impacts on surface water supplies and springs resulting in impacts on agriculture and cattle ranching</li> <li>• Seasonal demands impacting peak demands</li> <li>• Growth</li> <li>• Unresolved adjudication and Indian water rights settlements</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> <li>• Modifications to the current definition of an adequate water supply resulting from the passage of SB1575</li> </ul>
<b>Silver Creek Watershed Partnership</b>	Snowflake Taylor Holbrook Winslow Show Low Navajo County  Silver Creek ID  Show Low Creek Watershed Partnership  LCRWCC  ADWR NAU	<ul style="list-style-type: none"> <li>• Silver Creek channel and riparian restoration study completed.</li> <li>• Value Engineering Analysis of Unsafe Dams completed</li> <li>• Silver Creek HSR</li> </ul>	<ul style="list-style-type: none"> <li>• Limited groundwater data</li> <li>• Potential impacts on groundwater system from Cholla Power plant</li> <li>• Drought impacts on surface water supplies for agriculture</li> <li>• Several high hazard unsafe dams</li> <li>• Unresolved adjudication and Indian water rights settlements</li> <li>• Perception of no real supply problem</li> <li>• Water quality concerns in some areas (salinity)</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> <li>• Modifications to the current definition of an adequate water supply resulting from the passage of SB1575</li> </ul>
<b>Upper Little Colorado River Watershed</b>	Springerville Eagar Greer Nutrioso Apache County	<ul style="list-style-type: none"> <li>• Aerial mapping survey and GIS coverage of the Little Colorado River and tributaries completed.</li> <li>• Geomorphic and biological</li> </ul>	<ul style="list-style-type: none"> <li>• Limited groundwater data</li> <li>• Potential impacts to the groundwater system from TEPCO generating station.</li> <li>• Unresolved adjudication and Indian water rights</li> </ul>



<b>EASTERN PLATEAU PLANNING AREA</b>			
<b>Watershed Partnership</b>	<b>Primary Participants</b>	<b>Projects &amp; Accomplishments</b>	<b>Issues</b>
	Round Valley Irrigation District Local Citizens and Special Interest Groups LCRWCC  ADWR                      ADEQ AZG&F  NRCS/RCD    USFS USBoR	assessment of the LCR completed. <ul style="list-style-type: none"> <li>• Stream riparian restoration project</li> <li>• Round Valley Irrigation Delivery System partially upgraded.</li> <li>• Preliminary water budget completed</li> <li>• Reconstruction of River Reservoir Dam completed.</li> <li>• Interconnection of Springerville and Eagar's wastewater treatment facilities is complete</li> <li>• Completed Watershed Based Plan</li> </ul>	settlements <ul style="list-style-type: none"> <li>• Proposed development in Greer and impacts on Little Colorado River</li> <li>• Drought impacts on forage for grazing and surface water availability for agriculture</li> <li>• Potential impacts on tourism due to drought</li> <li>• Funding issues for water delivery infrastructure</li> <li>• Political differences between Springerville and Eagar</li> <li>• Limited funding resources for planning, projects, infrastructure and studies</li> <li>• Modifications to the current definition of an adequate water supply resulting from the passage of SB1575</li> </ul>