

Draft 2017 Plan of Operation

Arizona Water Banking Authority

December 7, 2016

2016 Activities

- Normal Operating Conditions
- Lower Basin Estimated Uses (as of Dec. 2, 2016)
 - California – 4.3 million acre-feet (MAF)
 - Nevada – 0.24 MAF
 - Arizona – 2.6 MAF (Conservation 195 KAF)
 - On-River – 1.13 MAF
 - Central Arizona Project 1.47 MAF

2016 Plan of Operation

- Planned deliveries – 65,708 AF
- Projected year-end deliveries - 65,708 AF
 - Phoenix AMA – 33,988 AF
 - Pinal AMA – 17,520 AF
 - Tucson AMA – 14,200 AF
 - No Interstate storage

AWBA Long-term Storage Credits 1997-2016

(Acre-Feet)

Funding Source	Phoenix AMA	Pinal AMA	Tucson AMA	Total
Withdrawal Fees	360,138	421,577	105,728	887,443
Ad valorem Tax (4¢)	1,419,016	215,916	459,682	2,094,614
General Fund	42,320	306,970	54,550	403,830
Indian Settlement Approp.	-	-	28,480	28,480
Shortage Reparation	20,640	60,510	28,340	109,489
Pinal Redirect (costs paid 100% by GSF)	-	14,130	-	14,130
SUBTOTAL	1,842,112	1,019,093	676,777	3,537,982
Interstate - Nevada	51,010	440,240	109,790	601,040
TOTAL	1,893,121	1,459,334	786,568	4,139,023

Long-term storage credits estimated for 2016.

2017 Plan of Operation

Three main components to consider...

- Water Availability
- Funding
- Storage Facility Capacity

Water Availability

- 2017 Colorado River Lower Basin State Diversions
 - Intentionally Created Surplus (ICS) Operating Condition – AZ 2.8 MAF
 - Creation of 185 KAF of ICS and system water projected
 - Central Arizona Project – 1.47 MAF
 - On-River – 1.15 MAF
- CAWCD Policy for Distributing Excess CAP Water
 - Statutory Firming Pool
 - Volume determined annually
 - 18,630 AF available to pool in 2017
 - AWBA share of pool – 17,630 AF

2017 Funding Sources

- Withdrawal fees collected in Phoenix, Pinal and Tucson AMAs
- 4¢ *Ad valorem tax*
 - Levied by CAWCD in Maricopa, Pinal, and Pima Counties
 - Retained in CAWCD fund accounts
 - Utilized by CAWCD to offset AWBA water storage and delivery costs as part of project O&M costs
 - Reserved by CAWCD Board for potential long-term storage credit purchases

Storage Facility Capacity

- Discussions with storage facility operators on storage opportunities
- Emphasis on GSF storage
- Additional storage capacity available if needed

2017 Water Delivery Schedule (AF)

AMA	Recharge Sites		Permitted Capacity (AF)	Delivery Amount
Phoenix	USF	Hieroglyphic Mountain	35,000	0
		Agua Fria	100,000	0
		Superstition Mountains	25,000	0
		GRUSP	93,000	0
	GSF	Queen Creek ID	28,000	5,230
		Subtotal		
Pinal	GSF	Central Arizona IDD	110,000	3,800
		Hohokam IDD	55,000	3,800
		Maricopa-Stanfield IDD	120,000	3,800
		Subtotal		
Tucson	USF	Lower Santa Cruz	50,000	0
		Pima Mine Road	30,000	0
	GSF	Cortaro-Marana ID	20,000	1,000
		Kai Farms	11,231	0
		Subtotal		
TOTAL DELIVERIES				17,630

2017 Water and Facility Rates

Description of Rate	Cost/AF
CAWCD delivery rate to AWBA for water storage	\$195
Groundwater Savings Facility operator cost share rate	
Phoenix and Pinal AMAs	\$34
Tucson AMA	\$16
Underground Storage Facility rate paid by AWBA	
CAWCD - Phoenix Facilities	\$12
CAWCD - Tucson Facilities	\$15
Avra Valley Recharge Project	\$16.88
Tucson Water Clearwater Facilities	\$17.07
Granite Reef Underground Storage Project	\$15

Funding for 2017 Annual Plan of Operation

Funding Source	Estimated Available	Estimated Utilized	Estimated Credits (AF)	
			Water Storage	Developed
Withdrawal Fees				
Phoenix AMA	\$1,340,180	\$1,340,180	1,110	7,000
Pinal AMA	\$973,450	\$973,450	5,620	0
Tucson AMA	\$495,000	\$495,000	170	2,280
Ad Valorem Tax (4-cent tax)				
Phoenix AMA	\$15,350,000	\$15,349,850	3,750	65,920
Pinal AMA	\$870,000	\$861,950	4,980	0
Tucson AMA	\$3,000,000	\$3,000,000	760	12,570
TOTAL	\$22,028,630	\$22,020,430	16,390	87,770

Projected Goals/Obligations Achieved through 2017

Objective	Goal/Obligation	Credits Accrued (AF)	% Achieved
CAP M&I Firming:			
Maricopa County	1,566,000 AF	1,422,766	91 (95)
Pinal County	243,000 AF	220,896	91
Pima County	864,000 AF	460,442	53 (55)
On-River M&I Firming:	420,000 AF	403,830	96
Indian Settlements:			
GRIC Firming	15,000 AF/Yr (Est. 350,000 AF)	140,390	40
Future Settlements	8,724 AF/Yr (Est. 200,000 AF)	0	0
Federal Assistance	Contribute \$3,000,000	34,102	100
Southside Repl. Bank	15,000 AF	15,000 (Non-recharge)	100
Groundwater Mgmt:			
Phoenix AMA	-	244,935	
Pinal AMA	-	410,120	
Tucson AMA	-	100,277	
Shortage Reparation:	Expend \$8,000,000	109,423	100
Pinal Redirect Credits:	-	14,125	n/a

Public Review and Comment

Groundwater Users Advisory Council Meetings

- Support for 2017 Plan overall
- Pleased with AWBA accomplishments to date
- Tucson AMA - Appreciated efforts to focus on storage in the Tucson AMA and can see the results