

2016 Storage Facility Inventory

AWBA Quarterly Meeting
September 29, 2016

Presented by
Terri Sue C. Rossi, Technical Administrator



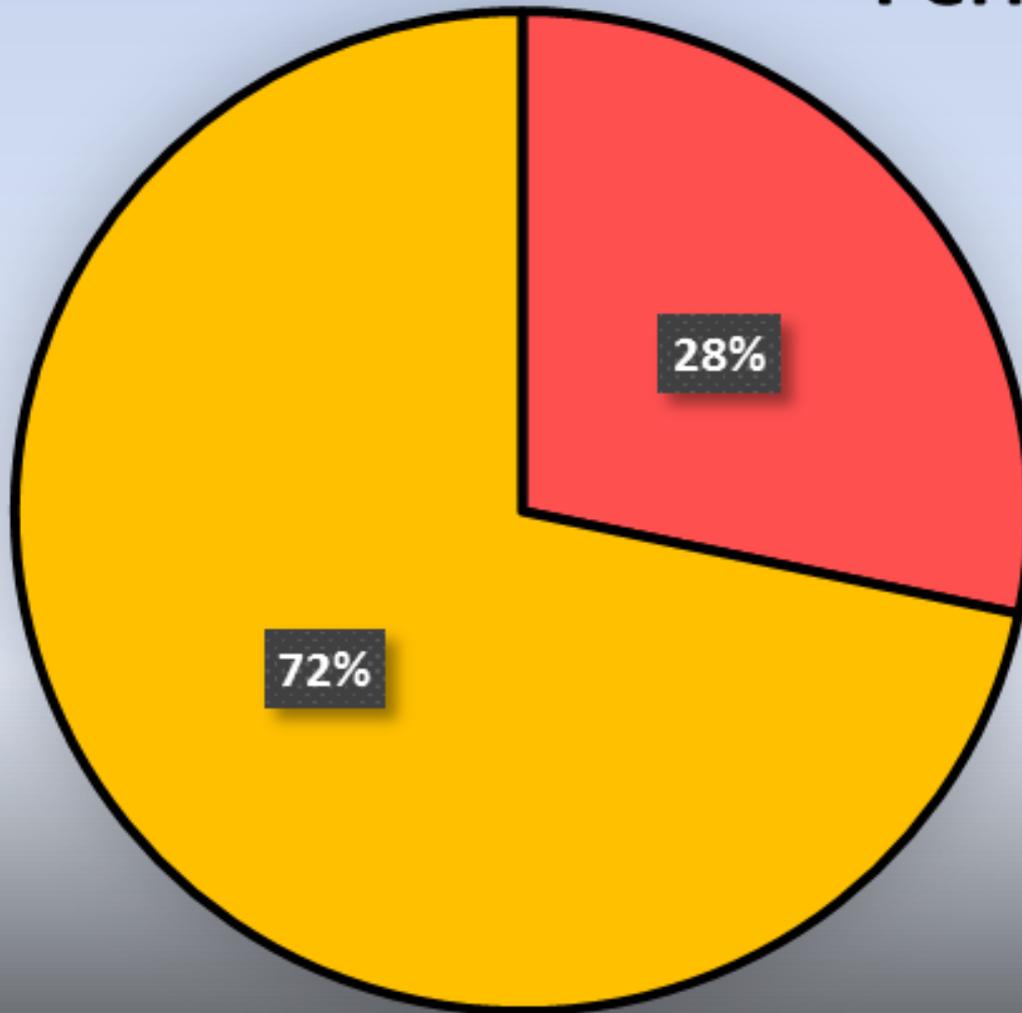
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Purpose of Storage Inventory

- Sufficient capacity to meet AWBA storage needs for ten years
- First one in 1997
- Updated in 2002, 2005 and 2011
- Used for interstate banking
- Supports AOP and Ten-Year Plan



Permitted Recharge Facilities in Central Arizona (~100 facilities)

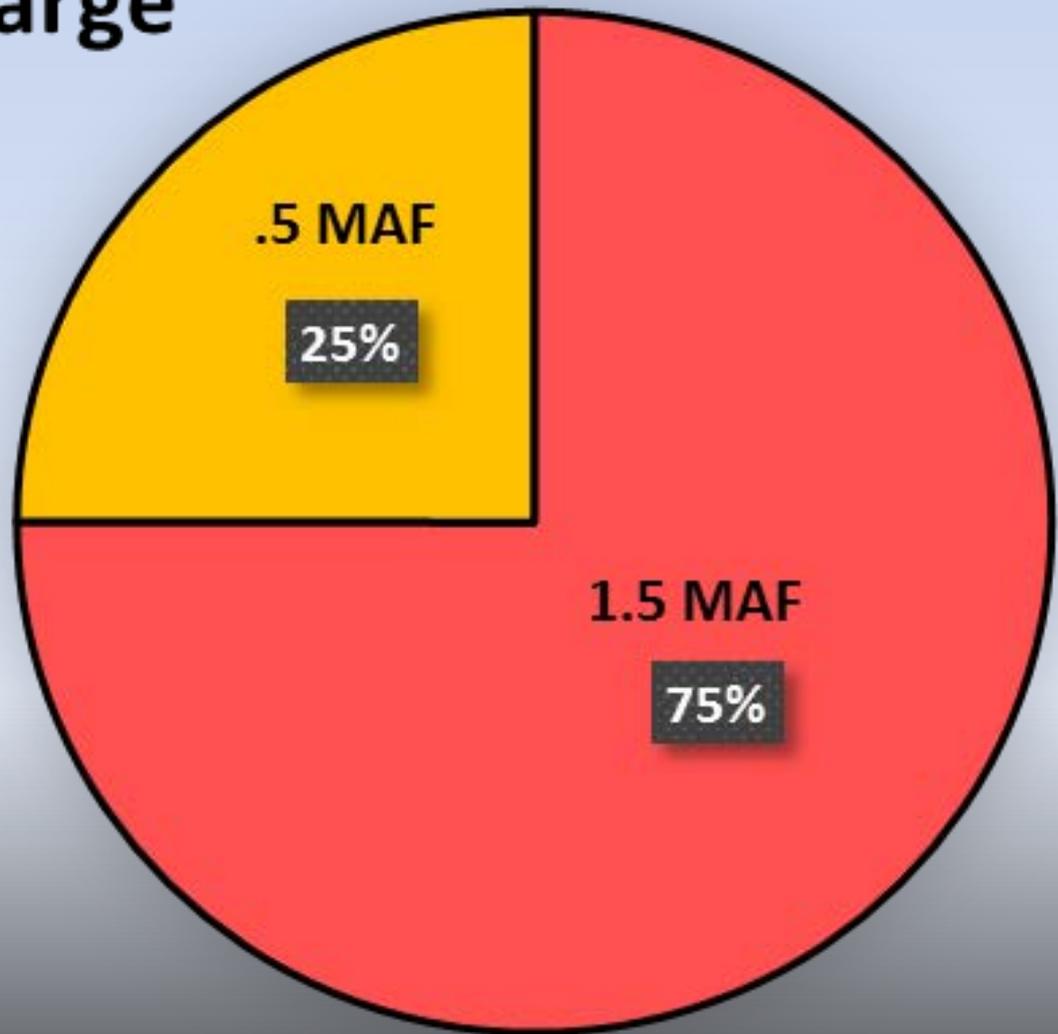


■ Facilities with AWBA Storage Permit

■ Facilities without AWBA Storage Permit



Permitted Recharge Capacity in Central Arizona (~2 MAF)



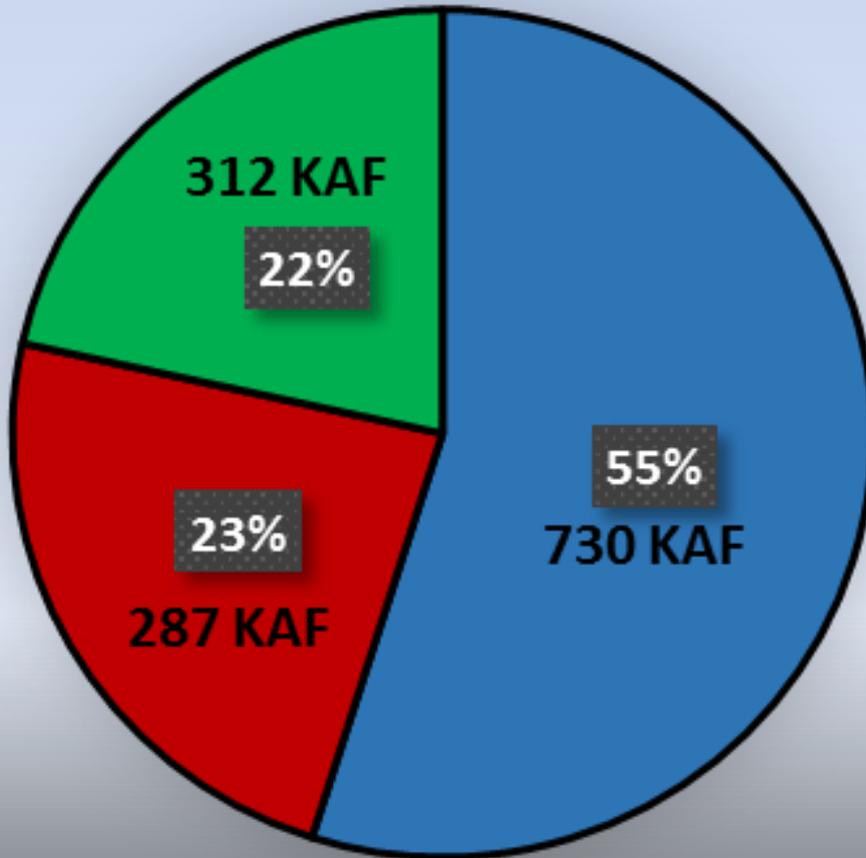
■ Facility Capacity with AWBA Storage Permit

■ Facility Capacity with no AWBA Storage Permit



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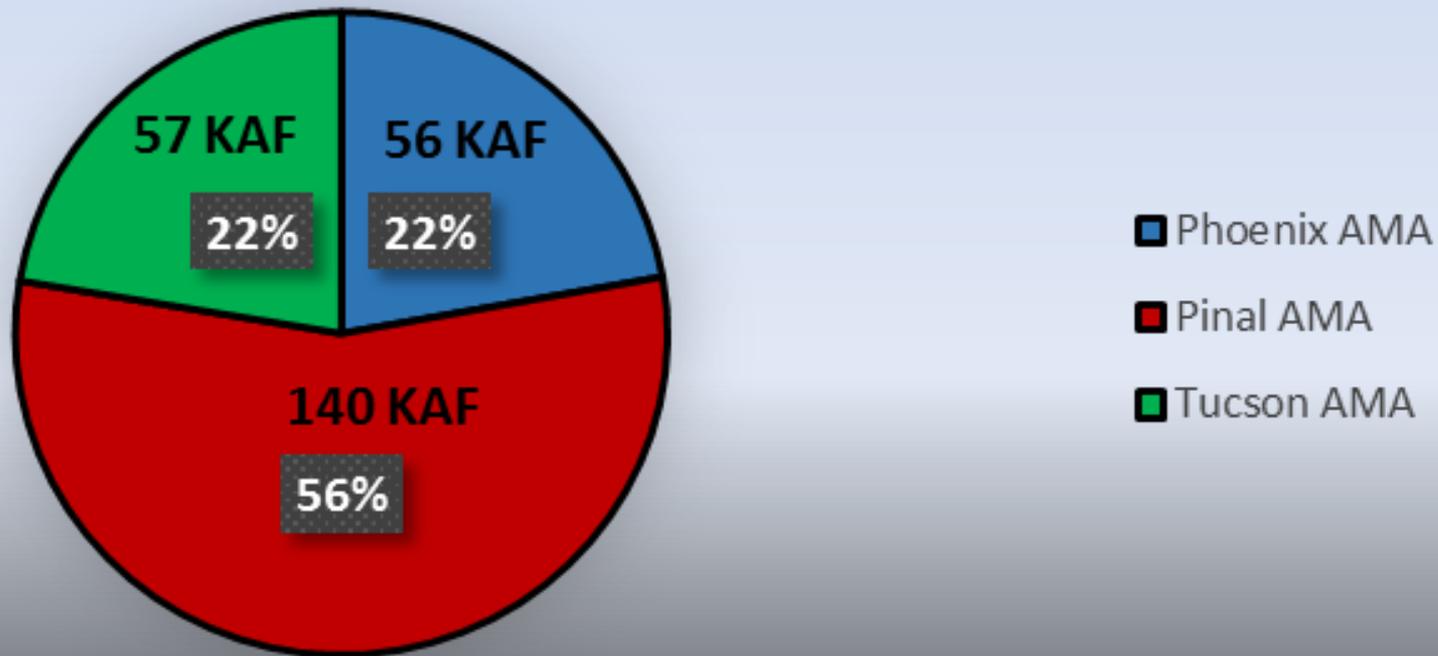
Permitted Capacity by AMA - 1.3 MAF



- Phoenix AMA
- Pinal AMA
- Tucson AMA



AWBA Water Storage Availability by AMA - 253 KAF



If normal conditions prevail...

Year	Total CAP Deliveries ¹	Statutory Firming Pool ³	
		Federal & CAGRDRR	AWBA
2017	1,436,300	11,100	66,300
2018	1,555,400	14,000	83,900
2019	1,554,500	12,100	72,300
2020	1,553,500	13,700	82,100
2021	1,552,300	11,700	70,400
2022	1,551,200	9,800	58,600
2023	1,550,100	8,000	47,800
2024	1,549,000	16,900	101,400
2025	1,547,900	13,700	82,100
2026	1,546,900	<u>9,900</u>	<u>59,100</u>
Total		120,900	724,000



What we planned for last July...

Year	Total CAP Deliveries ¹	Statutory Firming Pool ³	
		Federal & CAGRDRR	AWBA
2017	1,436,300	11,100	66,300
2018	1,555,400	14,000	0
2019	1,554,500	12,100	0
2020	1,553,500	13,700	0
2021	1,552,300	11,700	0
2022	1,551,200	9,800	0
2023	1,550,100	8,000	0
2024	1,549,000	16,900	0
2025	1,547,900	13,700	0
2026	1,546,900	<u>9,900</u>	<u>0</u>
Total		120,900	66,300



What we think now...

Table 3 Water Delivery Schedule (Acre-Feet) Calendar Year 2017															
AWBA-Storage Sites		Permitted Capacity (AF)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
PHOENIX AMA :															
USF	AGUA FRIA	100,000	0	0	0	0	750	750	0	0	250	750	0	0	2,500
	GRUSP	93,000	0	0	0	0	0	0	0	0	0	0	0	0	0
	HIEROGLYPHIC MTN	35,000	0	0	0	0	0	500	500	500	500	500	0	0	2,500
	SUPERSTITION MTNS	35,000	0	0	0	0	0	0	0	0	0	0	0	0	0
	TONOPAH DESERT	150,000	0	0	0	0	0	0	0	0	0	0	0	0	0
			5,000												
GSF	NEW MAGMA	54,000	0												
	QUEEN CREEK	28,000	230	2,000	1,000	500	500	5,230							
AMA TOTAL INTRASTATE			730	2,750	2,250	500	500	10,230							
PINAL AMA :															
GSF	CAIDD	110,000	800	0	0	0	0	3,800							
	HOHOKAM	55,000	800	0	0	0	0	3,800							
	MSIDD	120,000	200	100	50	0	0	3,800							
AMA TOTAL INTRASTATE			800	100	50	0	0	11,400							
TUCSON AMA:															
USF	AVRA VALLEY	11,000	0	0	0	0	0	0	0	0	0	0	0	0	0
	LOWER SANTA CRUZ	50,000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PIMA MINE ROAD	30,000	0	0	0	0	0	0	0	0	0	0	0	0	0
	CAVSARP	100,000	0	0	0	0	0	0	0	0	0	0	0	0	0
	SAVSARP	60,000	0	0	0	0	0	0	0	0	0	0	0	0	0
			5,000												
GSF	CORTARO-MARANA ID	20,000	250	0	250	0	250	0	0	250	0	0	0	0	1,000
	KAI FARMS (Red Rock)	11,231	0	0	0	0	0	0	0	0	0	0	0	0	0
	BKW Farms	14,316	0	0	0	0	0	0	0	0	0	0	0	0	0
			1,000												
AMA TOTAL INTRASTATE			250	0	250	0	250	0	1,000	1,250	1,000	500	500	1,000	6,000
TOTAL INTRASTATE			350	200	950	800	1,850	1,750	1,800	10,780	3,850	2,800	1,000	1,500	27,630
TOTAL INTERSTATE			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL RECHARGE			350	200	950	800	1,850	1,750	1,800	10,780	3,850	2,800	1,000	1,500	27,630
DIRECT DELIVERY (Non-Storage):															
Southside Replenishment Bank			0	0	0	0	0	0	0	0	0	0	0	0	0
Southside Replenishment Obligation			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DIRECT			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DELIVERIES			350	200	950	800	1,850	1,750	1,800	10,780	3,850	2,800	1,000	1,500	27,630

**2017 Plan of Operation
Acre-feet**

Phoenix AMA 10,230

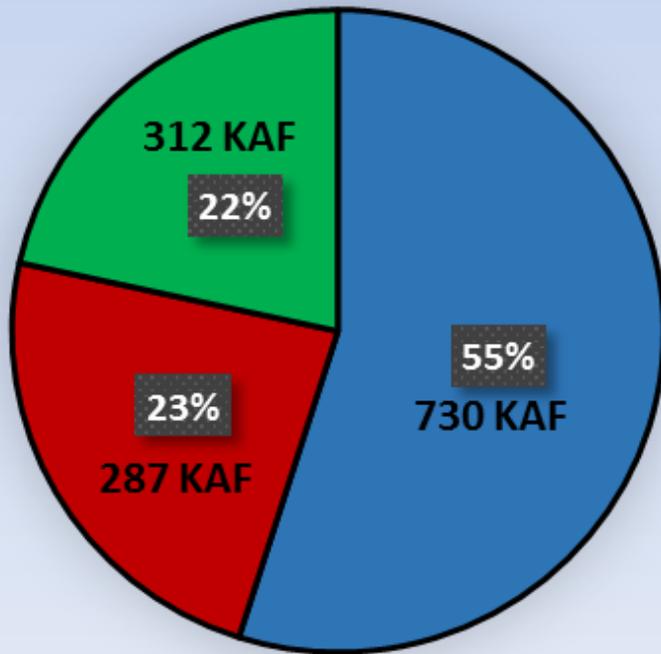
Pinal AMA 11,400

Tucson AMA 6,000

Total 27,630



The big analysis...



- Phoenix AMA
- Pinal AMA
- Tucson AMA

2017 Plan of Operation	
	Acre-feet
Phoenix AMA	10,230
Pinal AMA	11,400
Tucson AMA	6,000
Total	27,630

Available Capacity – Demand = +/-X
If +X, then unremarkable
If –X, then do something



Points of Interest

- **Potential to expand capacity available to AWBA with current partners**
- **Potential opportunities for effluent partnerships**
- **Duplicative of storage analyses conducted in APO and Ten-Year Plan**



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