

## GSF Opportunities and Firming Goal Impacts in the Tucson AMA

- Water storage in the Tucson AMA occurs primarily at underground storage facilities (USFs). Storage at these facilities includes a facility usage fee in addition to the water delivery fees, increasing overall storage costs. Storage costs at GSFs are less than the water delivery costs because the GSF operator pays a portion of these costs.

(Storage at USFs = CAP water delivery cost + USF facility cost)

(Storage at GSFs = CAP water delivery cost – GSF partner share)

- Under the current GSF partner cost share of \$32/AF there is little to no opportunity for GSF partnerships in the Tucson AMA because pumping costs in the Tucson AMA are substantially lower than in the Phoenix and Pinal AMAs.
- Current examples of differential GSF partner cost share would be the \$20/AF paid by the Gila River Indian Community verses \$32/AF paid by other GSF partners.
- Unique situation in the Tucson AMA is insufficient funding to meet the M&I firming goal.
- Differential pricing for Tucson GSFs could stretch Tucson AMA funding.
- Even with differential pricing the goal may not be fully met.

GSF Opportunities and Firming Goal Impacts in the Tucson AMA

**Current GSF Partner Cost Share - \$32/AF - Zero Capacity Available**

<b>Cumulative Credits (AF)</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Ad valorem <sup>1</sup>	263,938	306,707	350,022	393,761	436,085	460,177	484,775	509,818	509,818	509,818
Withdrawal Fees	85,131	88,862	92,047	94,808	97,395	99,871	102,256	104,548	106,756	108,883
Percent Goal Achieved	31%	35%	41%	46%	50%	53%	56%	59%	59%	59%
Goal Including W/Fees	40%	46%	51%	57%	62%	65%	68%	71%	71%	72%

**GSF Partner Cost Share - \$15/AF - 20 kAF capacity**

<b>Cumulative Credits (AF)</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Ad valorem	263,938	324,005	384,997	428,351	455,121	482,211	509,769	537,772	537,772	537,772
Withdrawal Fees	85,131	90,164	94,272	97,731	100,946	104,014	106,956	109,777	112,482	115,076
Percent Goal Achieved	31%	38%	45%	50%	53%	56%	59%	62%	62%	62%
Goal Including W/Fees	40%	48%	55%	61%	64%	68%	71%	75%	75%	76%

**GSF Partner Cost Share - \$15/AF - 15 kAF capacity**

<b>Cumulative Credits (AF)</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Ad valorem	263,938	319,355	375,697	423,880	449,742	475,934	502,613	529,744	529,744	529,744
Withdrawal Fees	85,131	90,164	94,272	97,731	100,946	104,014	106,956	109,777	112,482	115,076
Percent Goal Achieved	31%	37%	43%	49%	52%	55%	58%	61%	61%	61%
Goal Including W/Fees	40%	47%	54%	60%	64%	67%	71%	74%	74%	75%

**GSF Partner Cost Share - \$15/AF - 10 kAF capacity**

<b>Cumulative Credits (AF)</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Ad valorem	263,938	314,705	366,397	418,738	444,326	469,620	495,420	521,679	521,679	521,679
Withdrawal Fees	85,131	90,164	94,272	97,731	100,946	104,014	106,956	109,777	112,482	115,076
Percent Goal Achieved	31%	36%	42%	48%	51%	54%	57%	60%	60%	60%
Goal Including W/Fees	40%	47%	53%	60%	63%	66%	70%	73%	73%	74%

**GSF Partner Cost Share - \$20/AF - 10 kAF capacity**

<b>Cumulative Credits (AF)</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Ad valorem	263,938	314,391	365,873	418,065	444,683	470,139	496,101	522,521	522,521	522,521
Withdrawal Fees	85,131	90,479	94,796	98,404	101,749	104,936	107,988	110,911	113,711	116,393
Percent Goal Achieved	31%	36%	42%	48%	51%	54%	57%	60%	60%	60%
Goal Including W/Fees	40%	47%	53%	60%	63%	67%	70%	73%	74%	74%

<sup>1</sup> A.R.S. § 48-3715.02, which provides CAWCD the authority to levy the *ad valorem* tax for water storage, will be repealed effective January 2, 2017. Therefore, collections were not included beyond 2016.