

# Pinal Active Management Area Modeling Update

## Pinal Stakeholder Group

Jeff Inwood, Chief Hydrologist

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Arizona Department of Water Resources



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# Alternative Assured Water Supply Model Run

- The Department conducted a 100-year projection model run with Analyses of Assured Water Supply demand set to zero
- Total Analysis of Assured Water Supply demand over the 100-year projection period in the published 2019 Pinal Model was 11,687,181 AF
- No other model assumptions or inputs were changed
- Assured Water Supply unmet demand in was reduced by 1,380,431 AF, from 1,969,950 AF to 589,519 AF in this 100-year projection model run



# 2019 Pinal Model Results

2016 - 2115 100 Year Total, Simulated, and Unmet Demand				
Sectors	Total Demand	Percent of Total Demand	Simulated Demand	Unmet Demand
	(AF)		(AF)	(AF)
Analysis (AAWS)	11,687,181	14.49%	10,616,411	1,070,770
Certificates (CAWS)	4,875,410	6.05%	4,609,484	265,926
Designations (DAWS)	4,886,490	6.06%	4,253,237	633,253
<b>AWS Subtotal</b>	<b>21,449,081</b>	<b>26.60%</b>	<b>19,479,131</b>	<b>1,969,950</b>
Agriculture	48,573,365	60.23%	43,514,309	5,059,056
Municipal	2,005,524	2.49%	1,952,338	53,187
GRIC M&I	500,342	0.62%	500,339	3
Industrial	2,329,255	2.89%	1,600,332	728,922
<b>Existing Uses Subtotal</b>	<b>53,408,486</b>	<b>66.22%</b>	<b>47,567,318</b>	<b>5,841,168</b>
Existing LTSC	1,169,993	1.45%	1,131,929	38,064
Future LTSC	4,620,964	5.73%	4,382,316	238,648
<b>LTSC Subtotal</b>	<b>5,790,958</b>	<b>7.18%</b>	<b>5,514,245</b>	<b>276,712</b>
<b>TOTAL (ALL SECTORS)</b>	<b>80,648,525</b>	<b>100.00%</b>	<b>72,560,695</b>	<b>8,087,830</b>



# No Analysis of Assured Water Supply Model Results

2016 - 2115 100 Year Total, Simulated, and Unmet Demand				
Sectors	Total Demand	Percent of Total Demand	Simulated Demand	Unmet Demand
	(AF)		(AF)	(AF)
Analysis (AAWS)	0	0.0%	0	0
Certificates (CAWS)	4,875,437	7.1%	4,790,808	84,629
Designations (DAWS)	4,886,484	7.1%	4,381,594	504,890
<b>AWS Subtotal</b>	<b>9,761,921</b>	<b>14.2%</b>	<b>9,172,402</b>	<b>589,519</b>
Agriculture	48,573,368	70.4%	46,011,206	2,562,162
Municipal	2,005,522	2.9%	2,004,172	1,350
GRIC M&I	500,339	0.7%	500,339	0
Industrial	2,329,252	3.4%	1,704,304	624,948
<b>Existing Uses Subtotal</b>	<b>53,408,481</b>	<b>77.4%</b>	<b>50,220,021</b>	<b>3,188,460</b>
Existing LTSC	1,169,991	1.7%	1,152,844	17,147
Future LTSC	4,620,964	6.7%	4,523,562	97,401
<b>LTSC Subtotal</b>	<b>5,790,955</b>	<b>8.4%</b>	<b>5,676,406</b>	<b>114,549</b>
<b>TOTAL (ALL SECTORS)</b>	<b>68,961,357</b>	<b>100.0%</b>	<b>65,068,829</b>	<b>3,892,528</b>



Remarks by Clint Chandler, Deputy Director, Arizona Department of Water Resources, for the Pinal Stakeholder Group, June 28, 2021

While some or much of the significance of the results (presented moments before by Jeff Inwood, ADWR chief hydrologist) are readily apparent, we are also informed by the experience of many months and a series of discussions examining the model and related conversations. Director Buschatzke, Jeff, Ayesha Vohra and I one week ago met in person with the chair and co-vice chairs of this stakeholder group—i.e., Supervisor Miller, Bill and Jake—to discuss status. Of course, the magnitude of the unmet demand with the analyses reduced to zero received much of the attention as we evaluated circumstances. We had a candid, direct and constructive conversation. All of us representing ADWR, and it is my perception, the chair and co vice chairs, desired clarity regarding the challenges confronting us.

Director Buschatzke encapsulated the status quo when he told Supervisor Miller, Bill and Jake that “the days of utilizing native groundwater for development in Pinal are over, it’s done.” ADWR will not approve new assured water supply applications seeking to utilize groundwater within the Pinal model domain. The solutions include non-groundwater importation and direct delivery. In other words, those desiring to develop within the Pinal model domain will need to bring their own non-groundwater supplies.

These are difficult assessments, yet they aren’t unfamiliar to those monitoring this situation over the span of the past several years. ADWR began to send deficiency letters referencing the lack of physical availability in the Pinal model domain in September 2017. The amply discussed model results put forward in November 2019 communicated much information regarding the scope and depths of the challenges in moving forward.

ADWR’s administration of the statutes and rules giving form to the assured water supply program is an affirmation of Governor Ducey’s commitment to these consumer protections. It merits emphasis the consumers protected are the current residents of Pinal County.

Supervisor Miller, Bill and Jake had a constructive approach during our meeting last week, for which the director is grateful. They can speak for themselves, but their desires for added clarity and for the identification of solutions not dependent on groundwater were helpful and appreciated. We also continue to appreciate that they enabled many opportunities for us to meet directly with stakeholders or to receive their questions and listen to their input through meetings with the leadership.

In going forward, Director Buschatzke specified an iterative process through which the Stakeholder Group will put forward proposals to ADWR. We desire solutions, too, and will respond as expeditiously as practicable. We look forward to continuing this work.