

## ADWR Contact

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## Current Calibration Periods & Scheduled Updates for Groundwater Models Developed By ADWR

### Pinal AMA

Model updated; calibration:  
1922–2009; model report  
expected 2013; simulation  
includes subsidence

### Phoenix AMA (SRV Model)

Model Updated in 2008;  
calibration: 1983-2006.  
New model development  
calibration period 1900–  
current; project starting 2012

### Prescott AMA

Model updated-calibration:  
1939-2011 Update report  
expected, 2012

### Tucson AMA

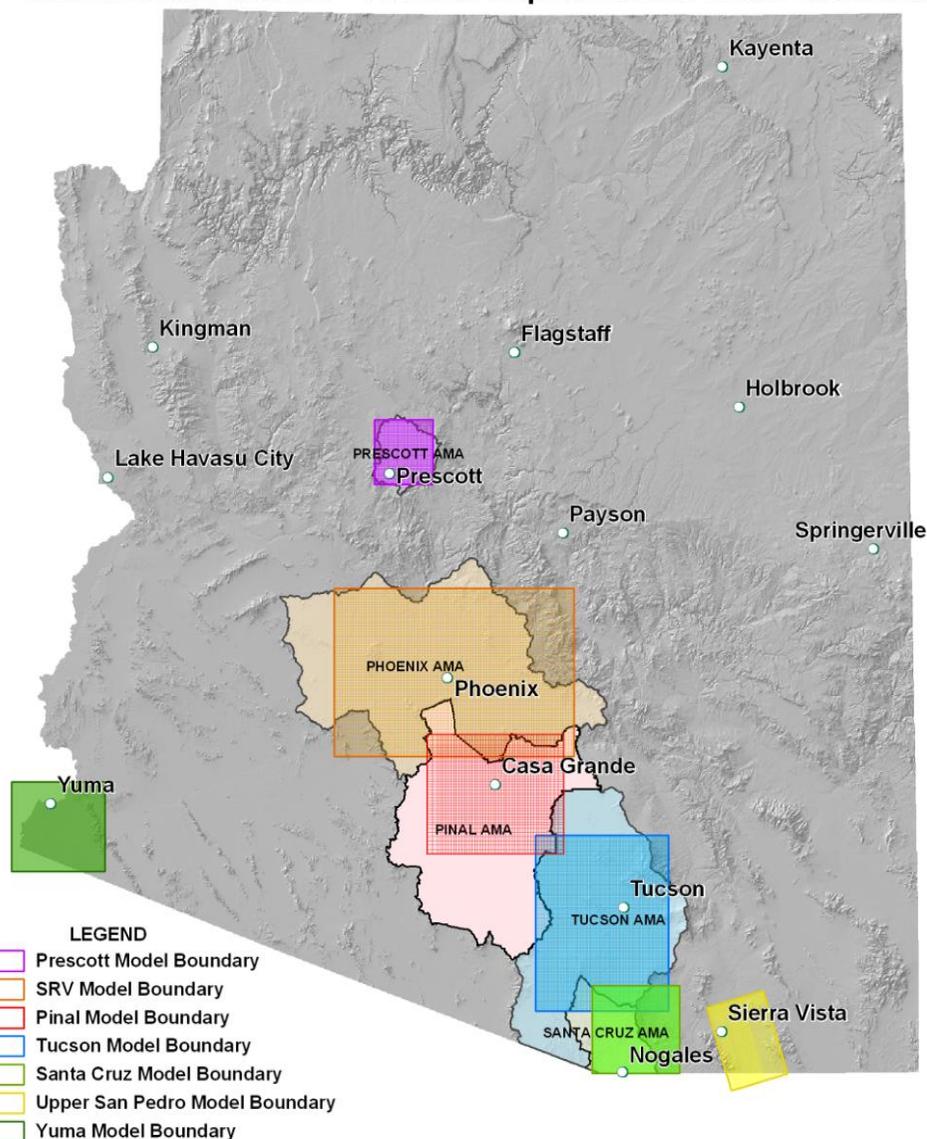
Model updated; calibration:  
1940-2009; update report 2012

### Santa Cruz AMA

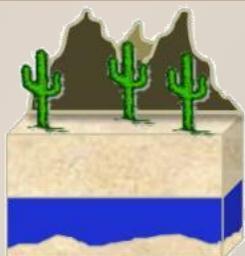
Models developed 2007;  
calibration: 1997- 2002  
Risk Analysis Report 2010

## ADWR's Groundwater Modeling Unit Supports Water Management in Arizona Through the Development of Numeric Groundwater Models.

### Groundwater Models - Arizona Department of Water Resources



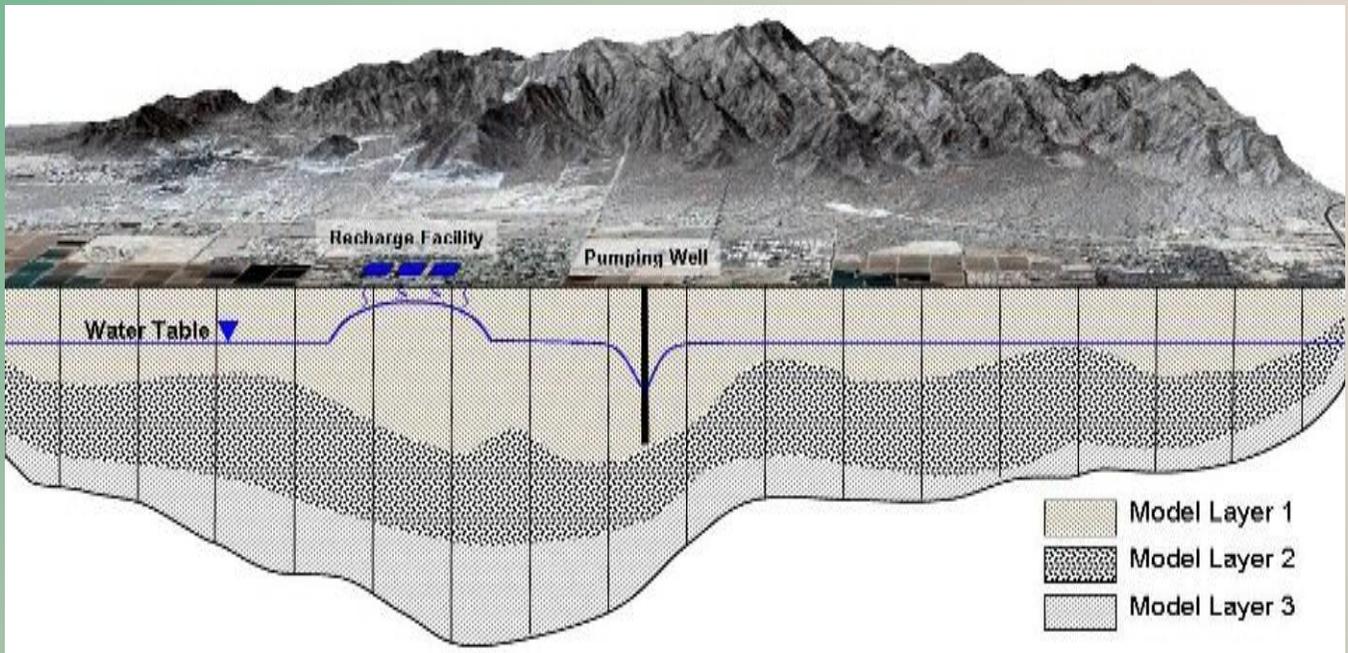
[www.azwater.gov](http://www.azwater.gov)



## Purpose of Groundwater Models:

- Provide a tool that can be used to simulate past, present, and future impacts of water use on aquifers.
- Allow water resource planners to make long-term management decisions based on potential impacts of future water uses on Arizona's groundwater resources.

Numeric Groundwater models assist our understanding of aquifer systems and provide a representation of the landscape that can be used to quantify the potential future impacts of various assumptions concerning future groundwater pumping and recharge.

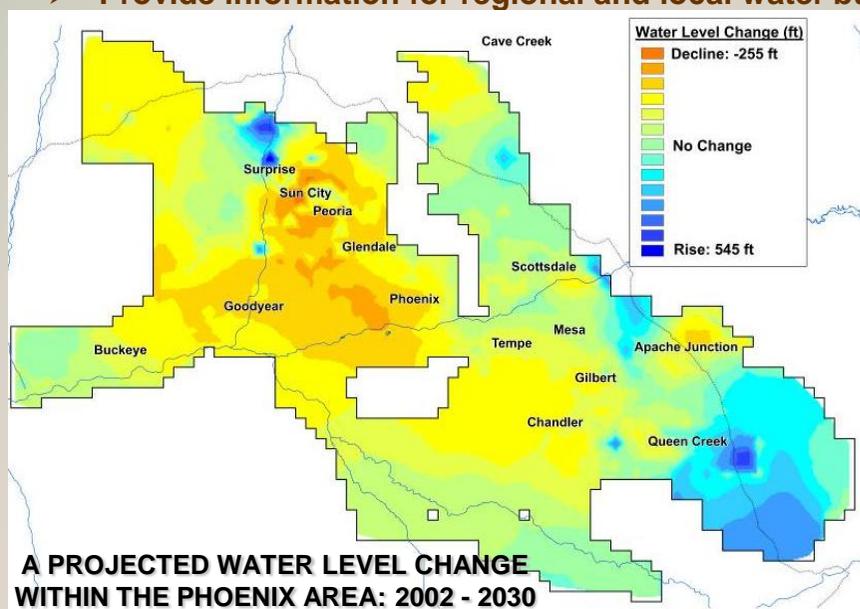


### What Information is Used for ADWR Groundwater Model Development?

- Data from well logs, geophysical studies, and various hydrologic reports
- Data from crop surveys, stream gages, precipitation stations and data submitted to the Department from various permit holders.
- Data collection sources include the ADWR, USGS, academic institutions, municipalities, water companies, Indian communities, irrigation districts, and private entities.

### How are the ADWR Groundwater Models Used?

- Better Understand Hydrologic System
- Models quantify the effects of various groundwater management and water conservation strategies and programs
- Models test various predictive scenarios for AMAs
- Assist various agencies (EPA, Bureau of Reclamation, AZ DEQ) and public groups (East Valley Water Forum) in developing models for specific user objectives.
- Provide information for regional and local water budgets



### Additional Modeling Unit Tasks:

- Provide technical guidance related to submitted applications.
- Publication of model reports, databases related to hydrologic information, and model datasets
- Provide modeling education and outreach for the ADWR and public
- Other ADWR Models include:
  - San Pedro (1940-1990)
  - Yuma (1978-1990)

**A PROJECTED WATER LEVEL CHANGE WITHIN THE PHOENIX AREA: 2002 - 2030**