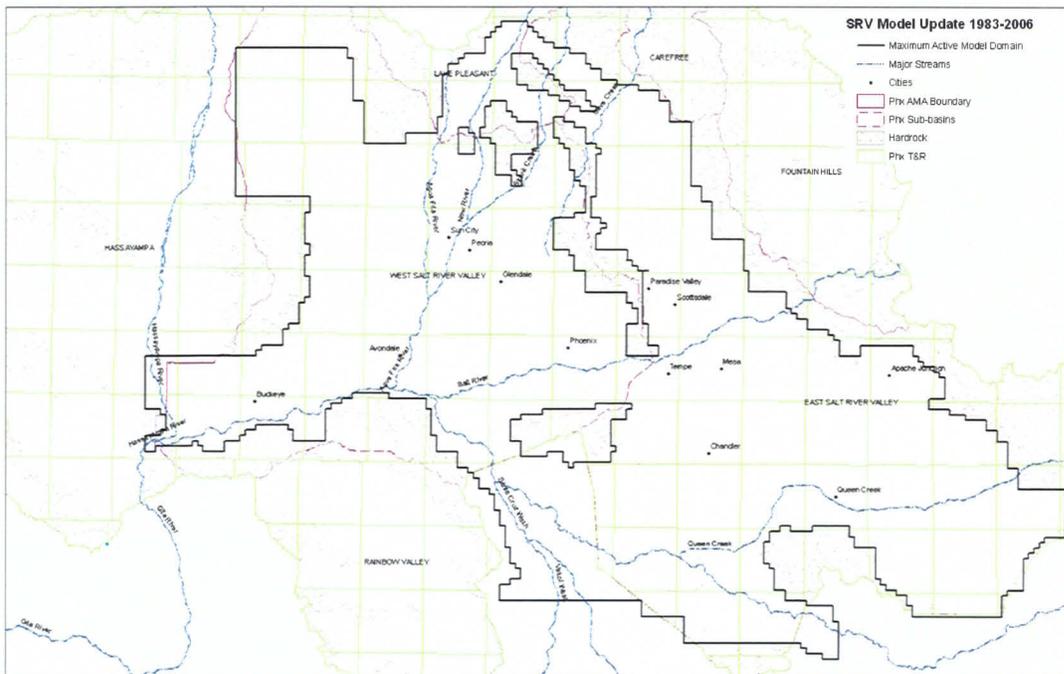


Salt River Valley (SRV) Groundwater Flow Model Fact Sheet

- The SRV groundwater flow model simulates groundwater flow for approximately 2,500 square mile within the Phoenix Active Management Area (AMA) located in central Arizona.
- The modeled area includes the East and West Salt River Valley sub-basins and the Lake Pleasant sub-basin of the Phoenix AMA and portions of the Eloy and Maricopa-Stanfield sub-basins of the Pinal AMA. Arizona's largest urban centers are included within the modeled area.



- The model uses the latest version of the U.S. Geological Survey's MODFLOW-2000 groundwater modeling software.
- The model simulated groundwater flow and historic water level changes within the Phoenix AMA's regional aquifer from 1983 to 2006.
- The model has been updated from earlier versions with a smaller cell size, 0.5 mile by 0.5 mile, an updated geologic interpretation based on recent well log data, and the addition of the Lake Pleasant sub-basin.

- Model recharge has been separated into its various components, which allows the components to be better simulated in time and within the modeled area.
- Simulation of surface water-groundwater interactions along the major drainages is simulated using MODFLOW's Stream flow Routing package.
- Model pumping is updated through 2006 with well specific pumpage using MODFLOW's Well package. The well specific pumpage comes from the Department's Registry of Groundwater Rights (RoGR) database. Where available the pumpage is distributed by layer based on a well's known perforation intervals.
- Artificial recharge projects using effluent and Central Arizona Project (CAP) surface water have been updated and are simulated using MODFLOW's Recharge package.
- This model update does not include any projections of future groundwater conditions. When completed such projections will be published in separate technical memos.

For further information about the SRV Model contact the Modeling Unit at:

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Downloadable copies of the SRV modeling reports and model data sets are available at:

www.azwater.gov/azdwr/Hydrology/Modeling/SRV_Home.htm