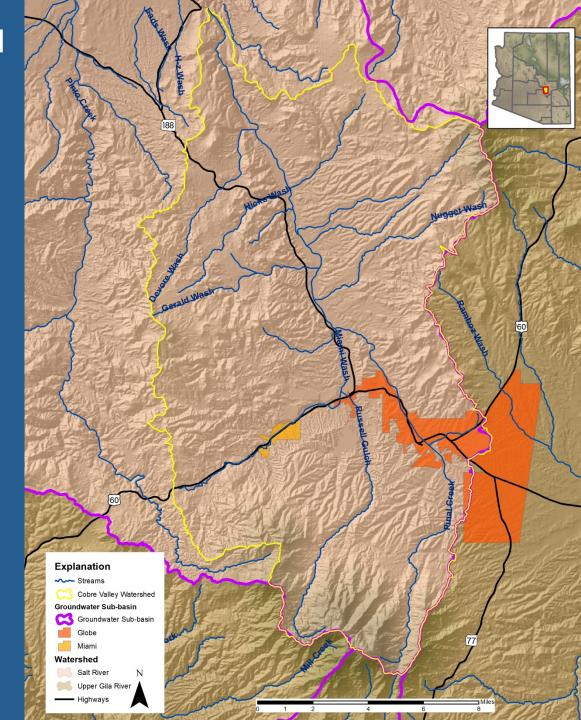
Water Resources in the Cobre Valley Watershed





Cobre Valley Watershed

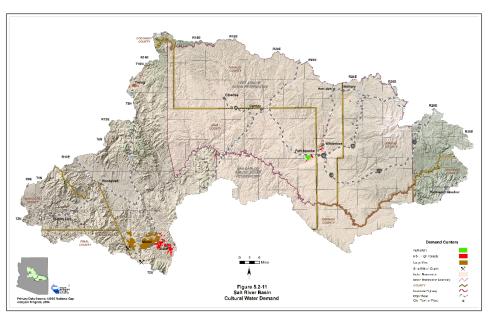
 Located in the Salt River Watershed



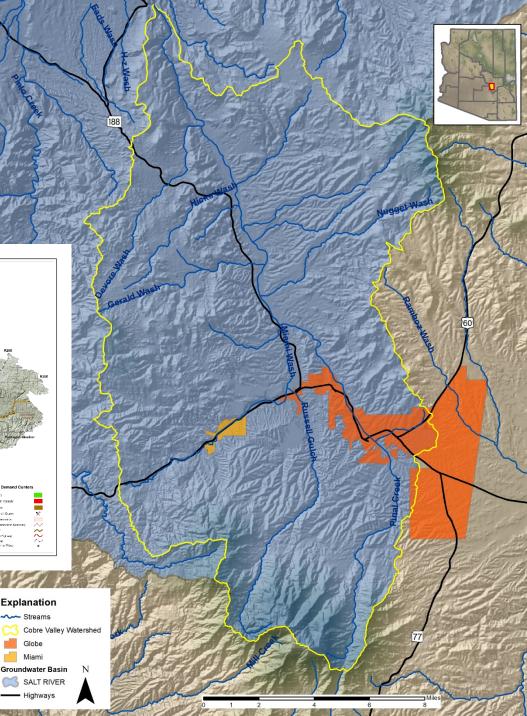


Cobre Valley Watershed

 Located in the Salt River Lakes Sub-basin (Salt River Groundwater Basin)



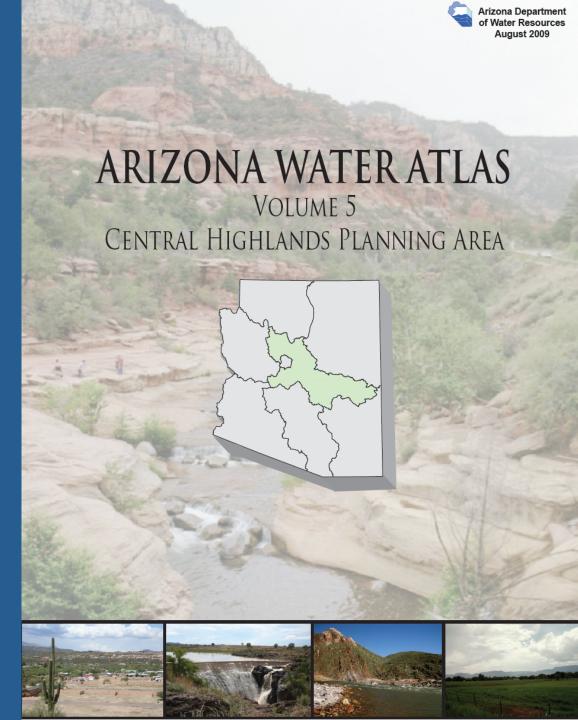
Explanation



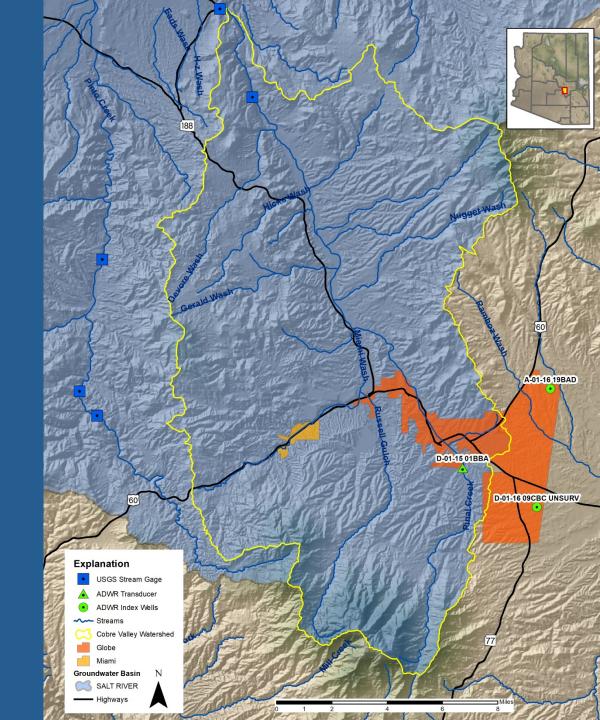


Cobre Valley Watershed

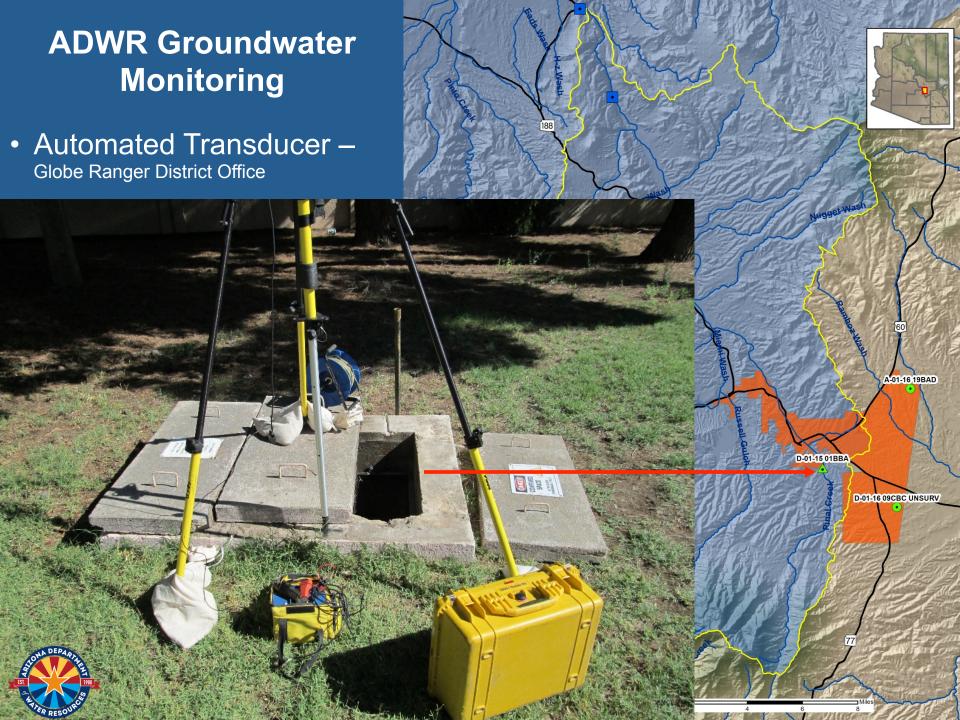
- Local aquifer is composed of semi-consolidated to consolidated basin-fill sediments and is up to 4,000 feet thick
- A limestone aquifer also supplies water in the Globe-Miami area
- Well-yields are generally low near Globe and higher to the north of Globe
- Recharge occurs primarily along the mountain fronts and stream infiltration



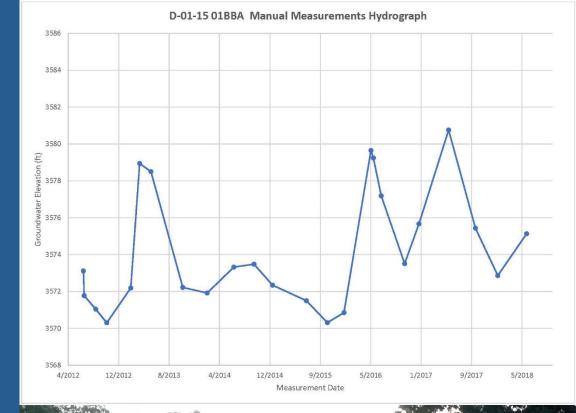
- Automated Transducer
- Index Wells







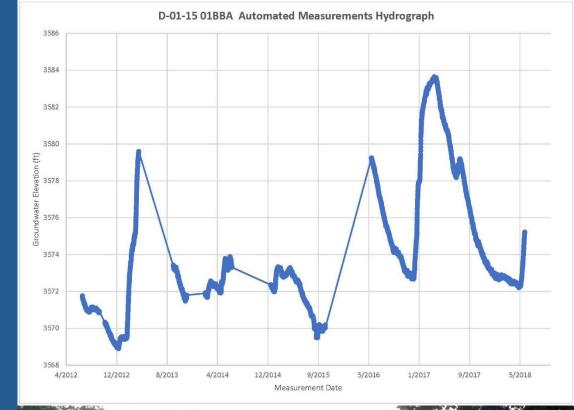
- Automated Transducer –
 Globe Ranger District Office
- Groundwater responds to Pinal Creek flows







- Automated Transducer –
 Globe Ranger District Office
- Groundwater responds to Pinal Creek flows
- Hydrograph of automated well site responds to Pinal Creek flows

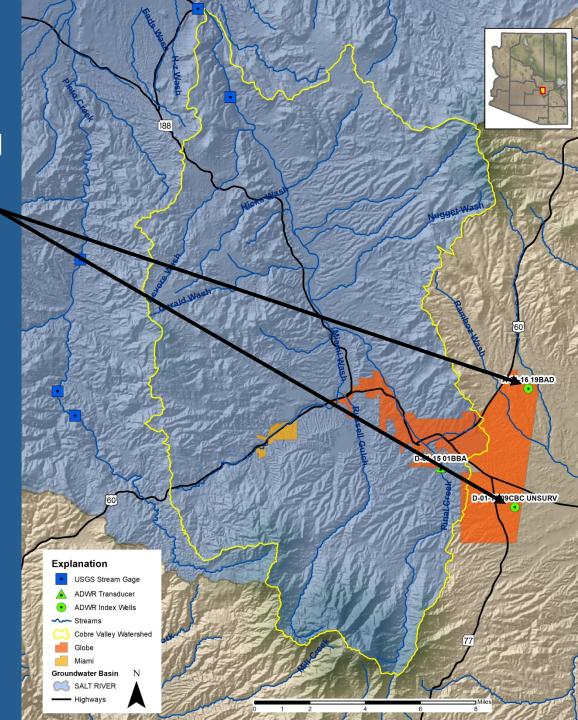






 Two Index Wells measured annually supply water to Globe in Cobre Valley

 Wells are located in the Cutter Well Field, San Carlos Valley Sub-basin of the Safford Groundwater Basin in adjacent Upper Gila Watershed



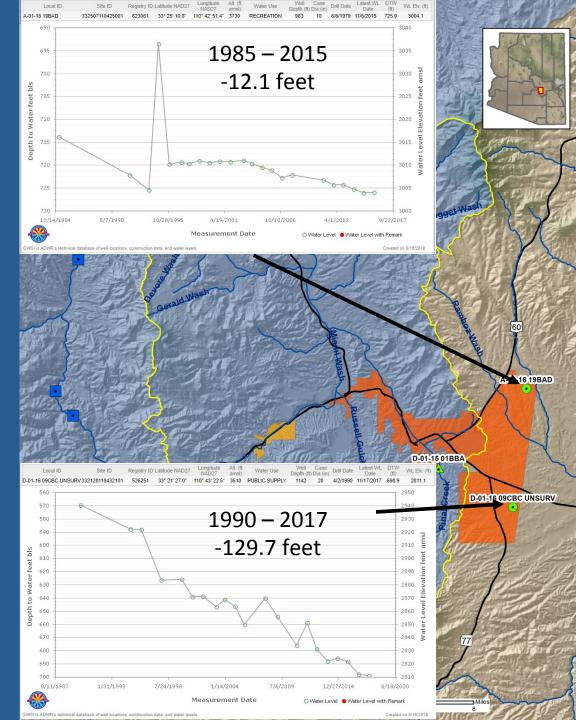


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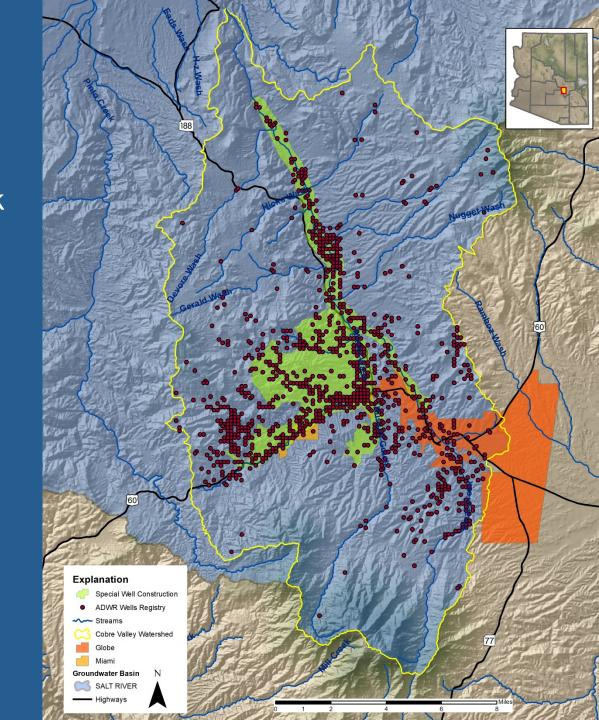
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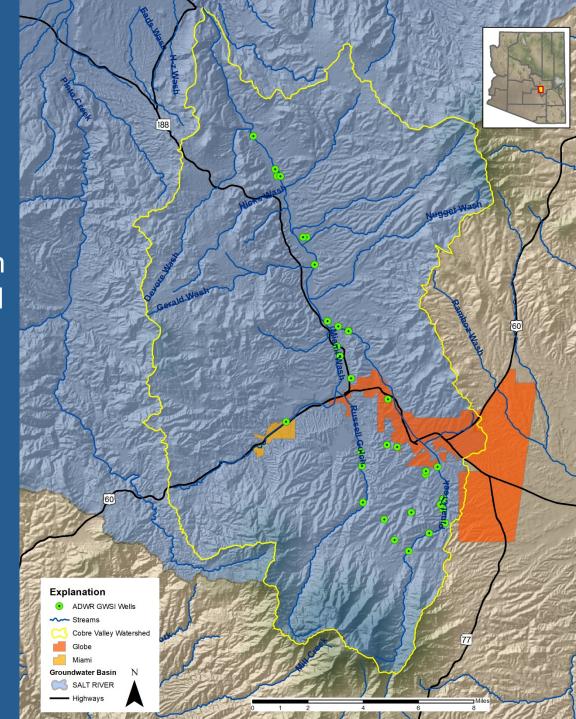
Groundwater Wells

- 2,484 Registered Wells
- Special well construction standards for Pinal Creek WQARF Area

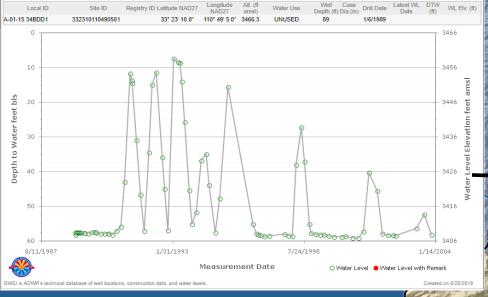


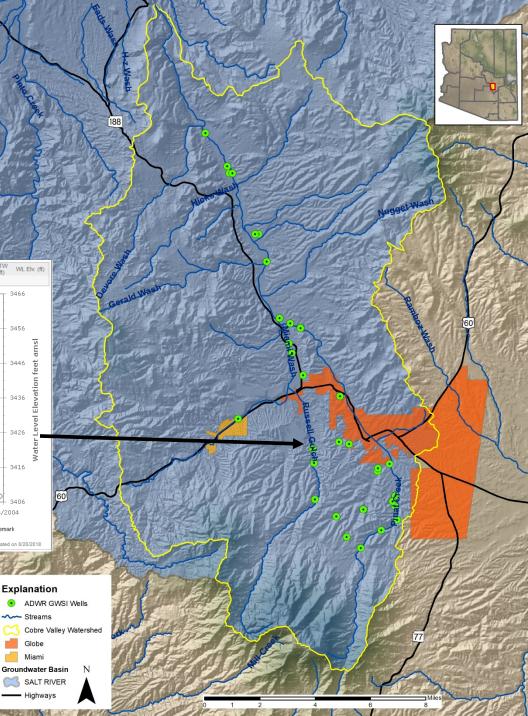


- 55 GWSI wells with measurements
- 3,355 measurements taken between January 1944 and November 2003
- Wells water use:
 - 2 Undetermined
 - 13 Domestic
 - 1 Irrigation
 - 1 Industrial
 - 3 Recreation
 - 1 Stock
 - 34 Unused



 A-01-15 34BDD1 Hydrograph



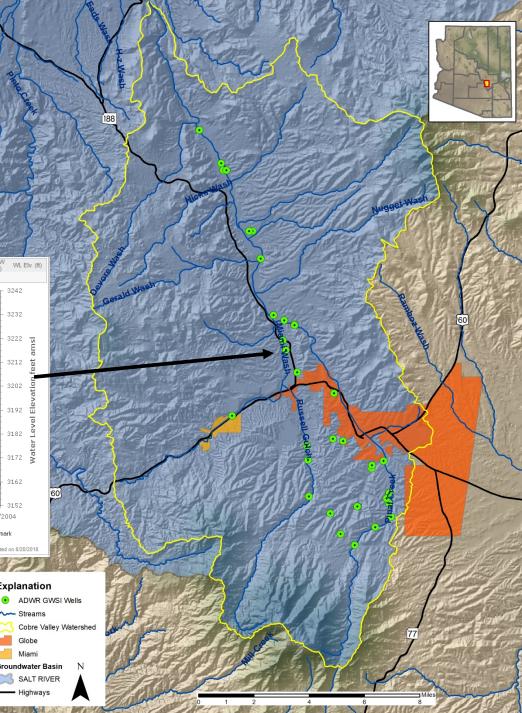




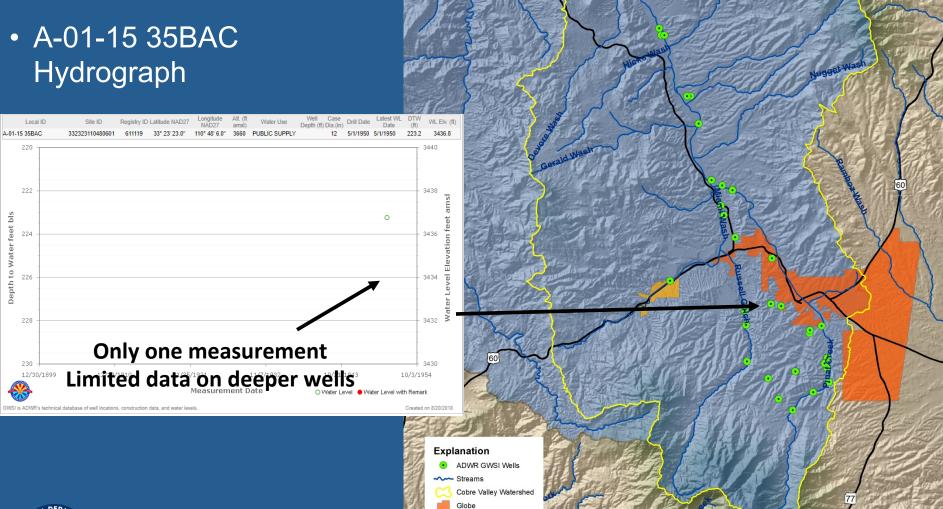
• A-01-15 09DCD1 Hydrograph



Groundwater Basin SALT RIVER







Groundwater Basin
SALT RIVER



CLOSING REMARKS

- Limited ADWR hydrological data
- Future ADWR data collection?
 - 34 Unused GWSI wells which could be potential ADWR monitoring sites
- Outside an Active Management Area no requirements to measure or report water use and volumes



Arizona Department of Water Resources

Gerry L. Walker, Deputy Assistant Director

Statewide Planning

Arizona Water Initiative

Rural Programs

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