

Upper San Pedro Groundwater Monitoring and Basin Sweep Activity

Arizona Department of Water Resources

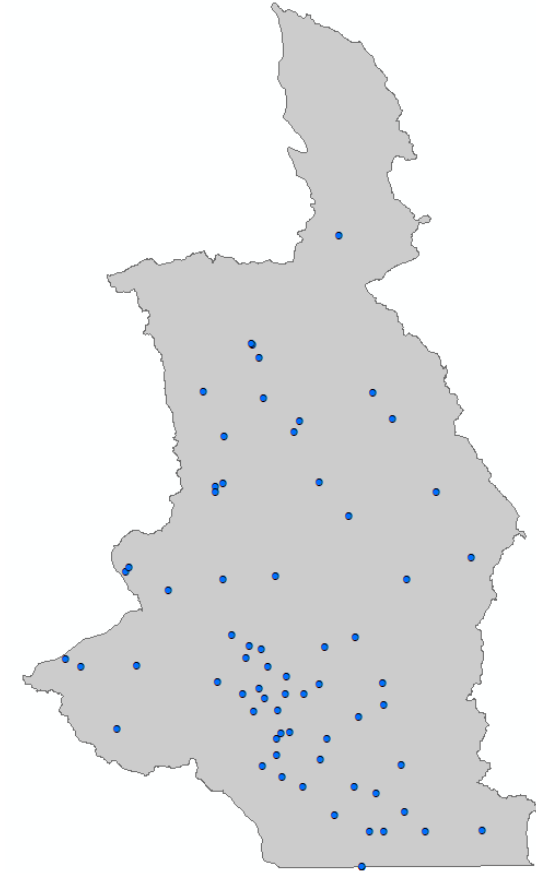
March 2021



USP Index Wells

- 67 Index Wells
 - 63 Manual Measurements
 - 4 Transducer Sites
- Data made available online through ADWR's GWSI data portal:

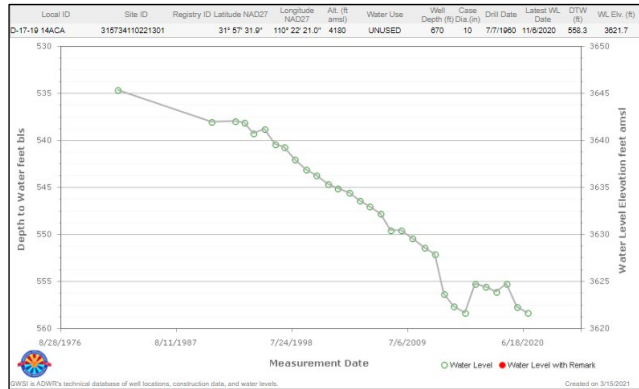
<https://gisweb.azwater.gov/waterresource/data/gwsi.aspx>



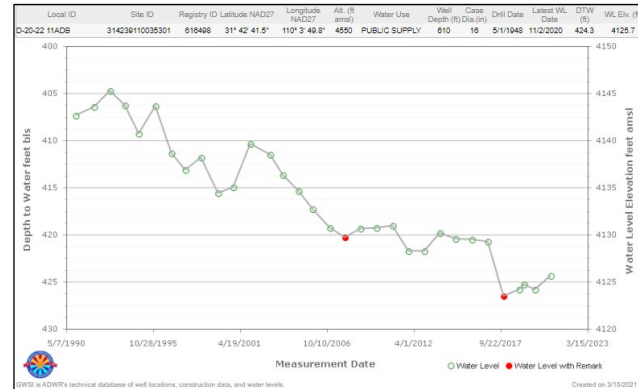
Index Well Distribution in the Upper San Pedro Groundwater Basin

Select Index Well Hydrographs

1



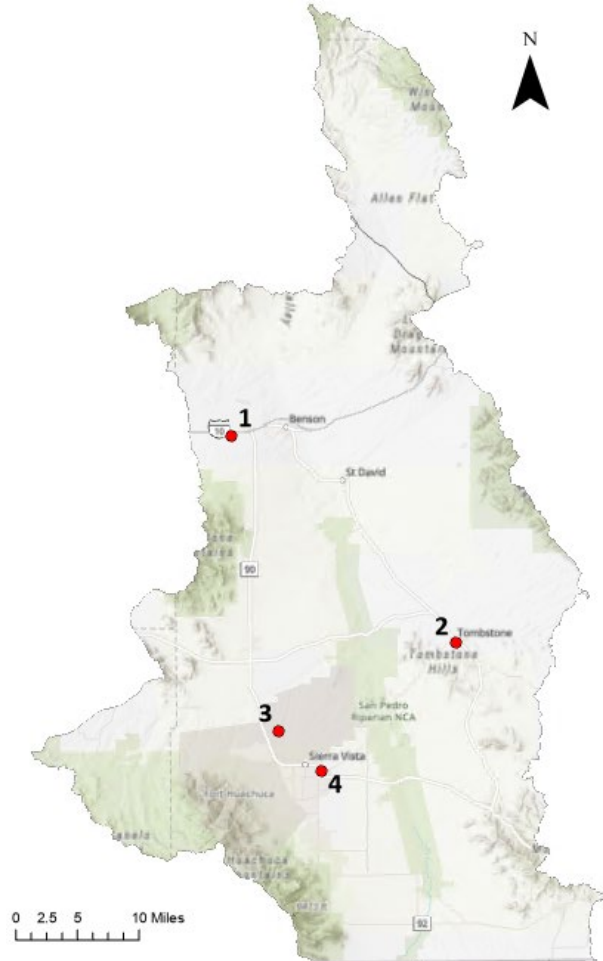
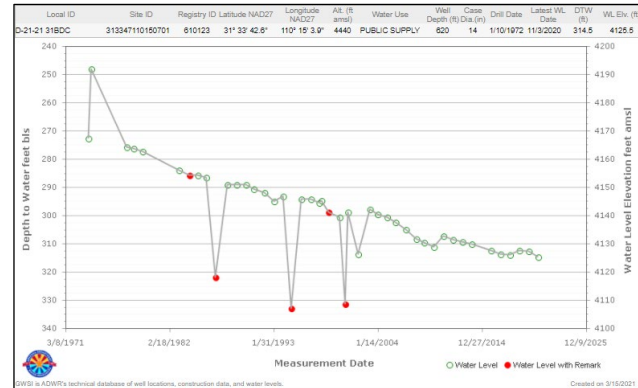
2



3

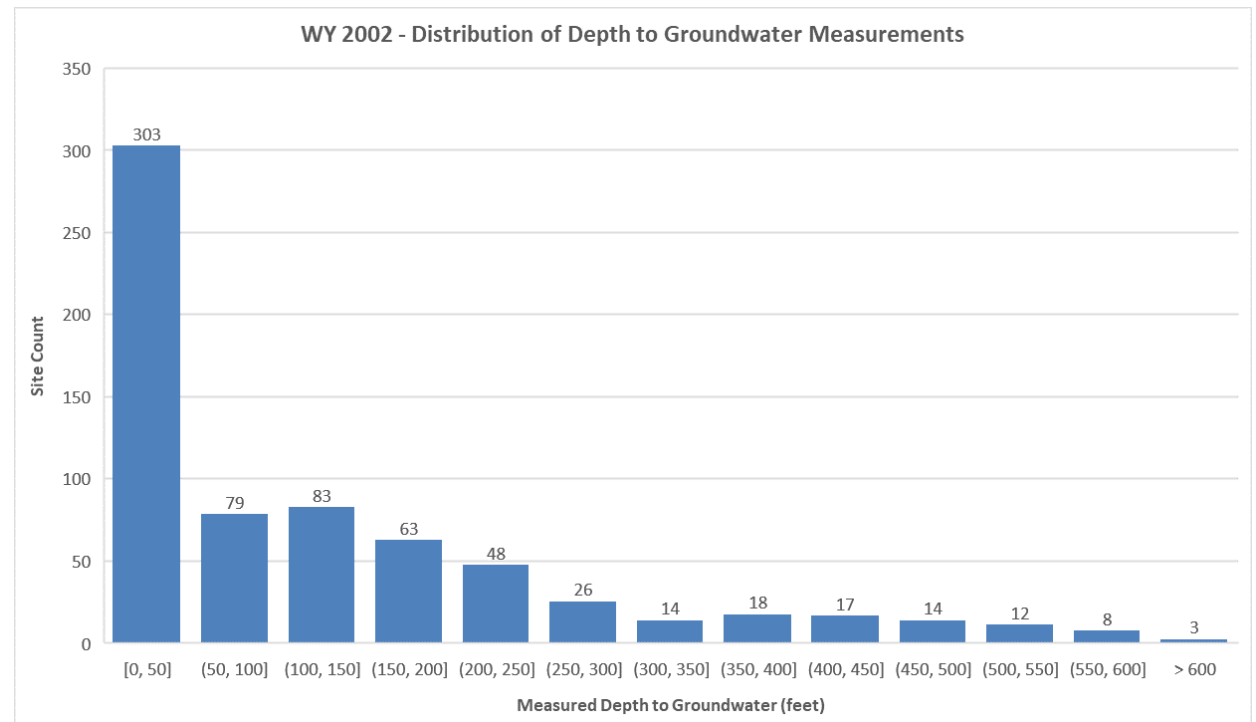


4



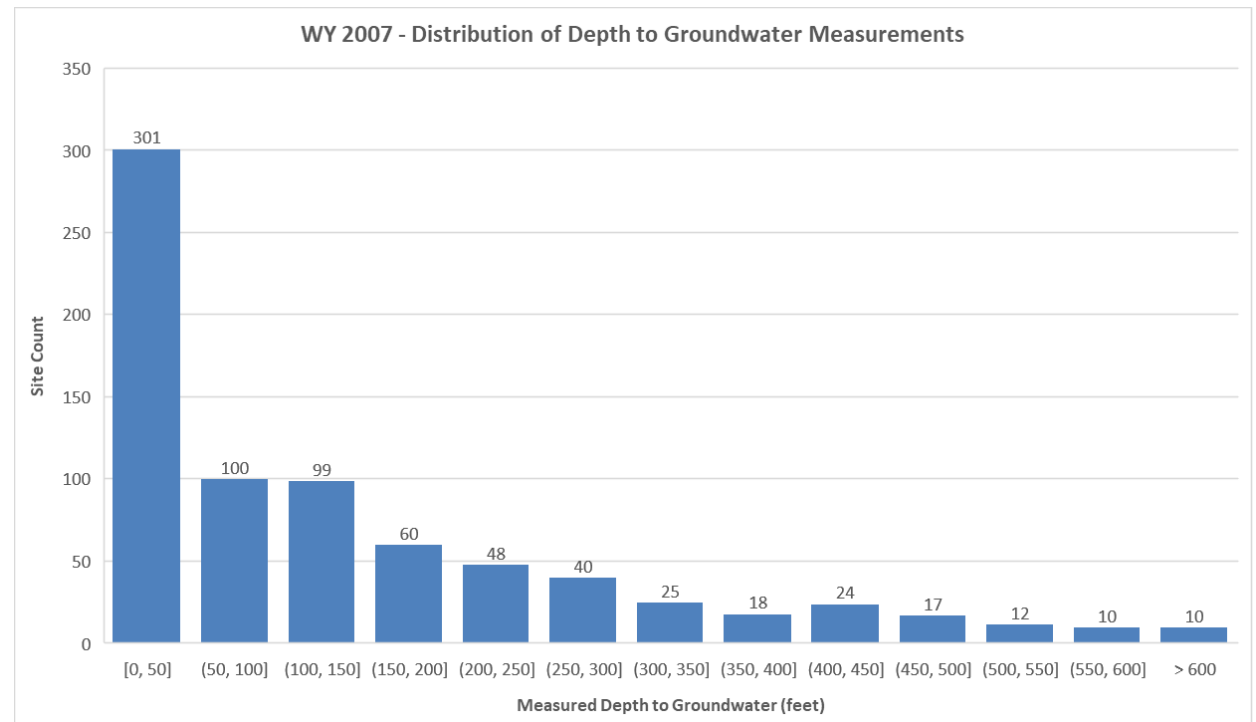
USP Basin – WY 2002

- 688 total groundwater level measurements
- Basin Sweep (November - December)
- Minimum measured depth to water: “Flowing” Remark
- Maximum measured depth to water: 722.0 feet
- Mean depth to water: 131.7 feet
- Median depth to water: 66.4 feet



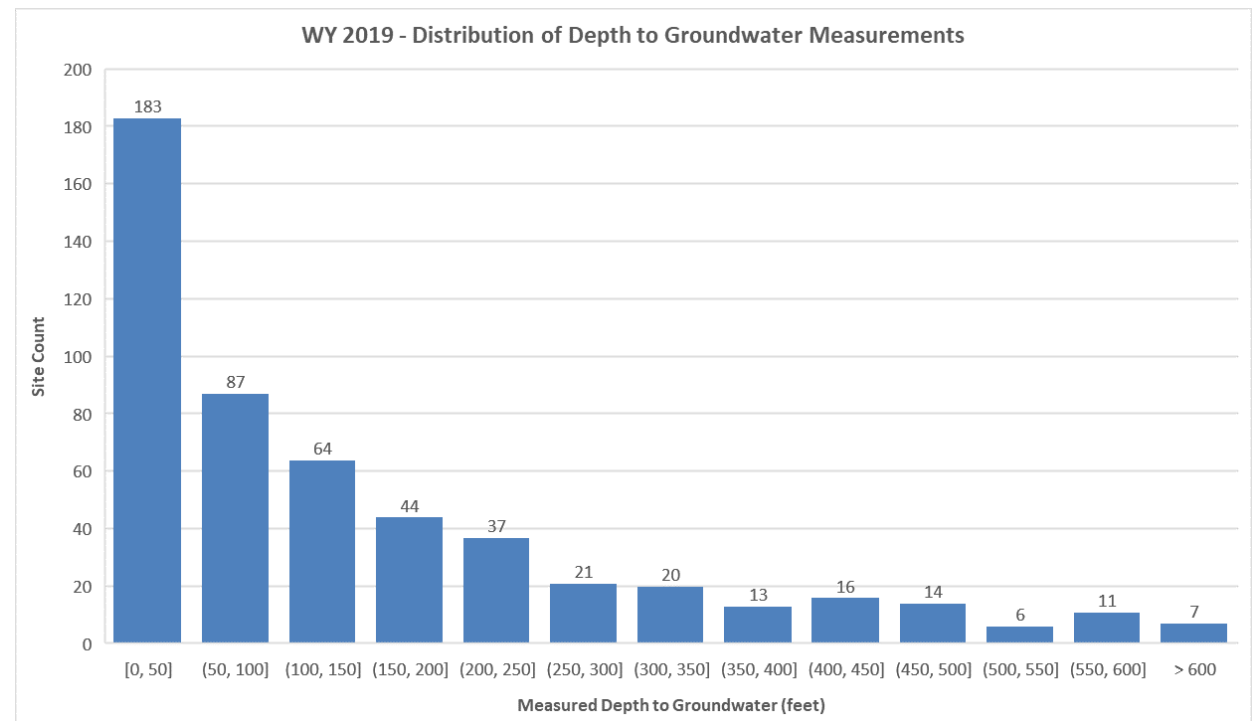
USP Basin – WY 2007

- 764 total groundwater level measurements
- Basin Sweep (November - December)
- Minimum measured depth to water: “Flowing” Remark
- Maximum measured depth to water: 749.9 feet
- Mean depth to water: 144.9 feet
- Median depth to water: 79.9 feet



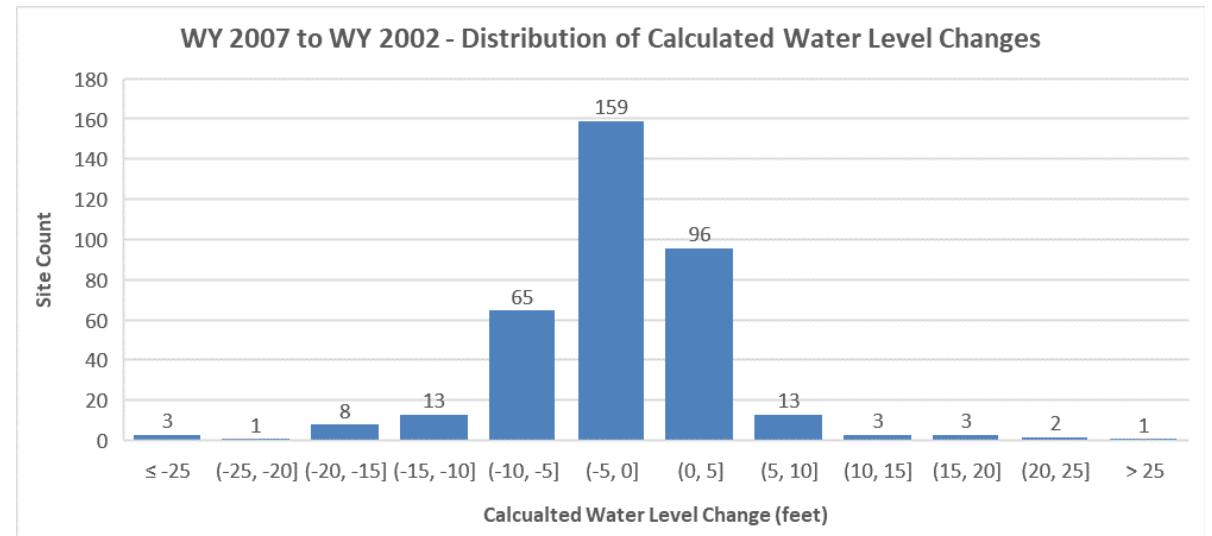
USP Basin – WY 2019

- 523 total groundwater level measurements
- Basin Sweep (February – March)
- Minimum measured depth to water: “Flowing” Remark
- Maximum measured depth to water: 763.8 feet
- Mean depth to water: 152.1 feet
- Median depth to water: 93.6 feet



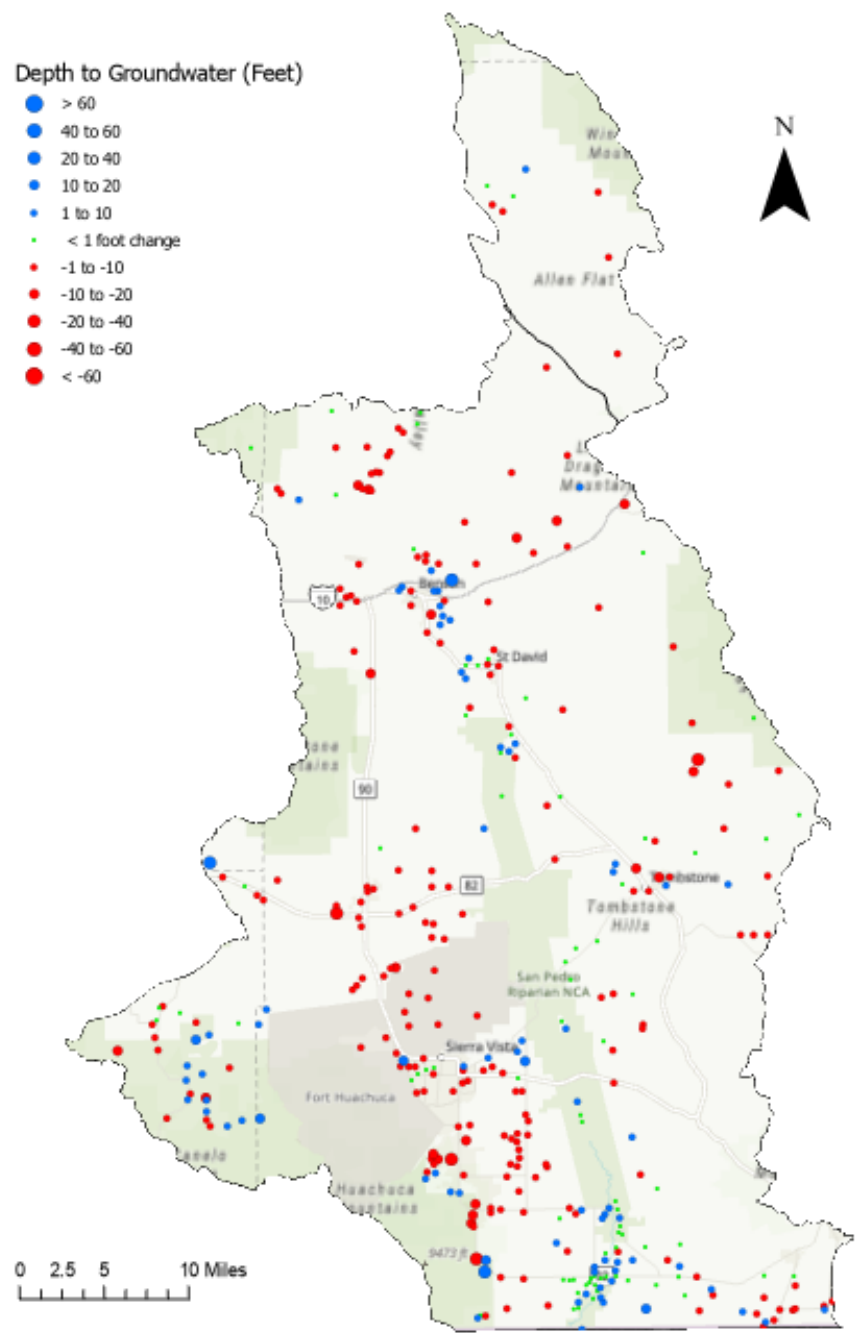
USP Water Level Change Map No. 3

- Water level change values between WY 2002 and WY 2007 (5-year timeframe of comparison)
- Total of 367 water level change values.
- Maximum water level decline: -30.2 feet
- Maximum water level rise: 33.4 feet
- Mean water level change: -2.1 feet
- Median water level change: -1.7 feet
- Mean annual rate of water level change: -0.42 feet/year
- Median annual rate of water level change: -0.34 feet/year



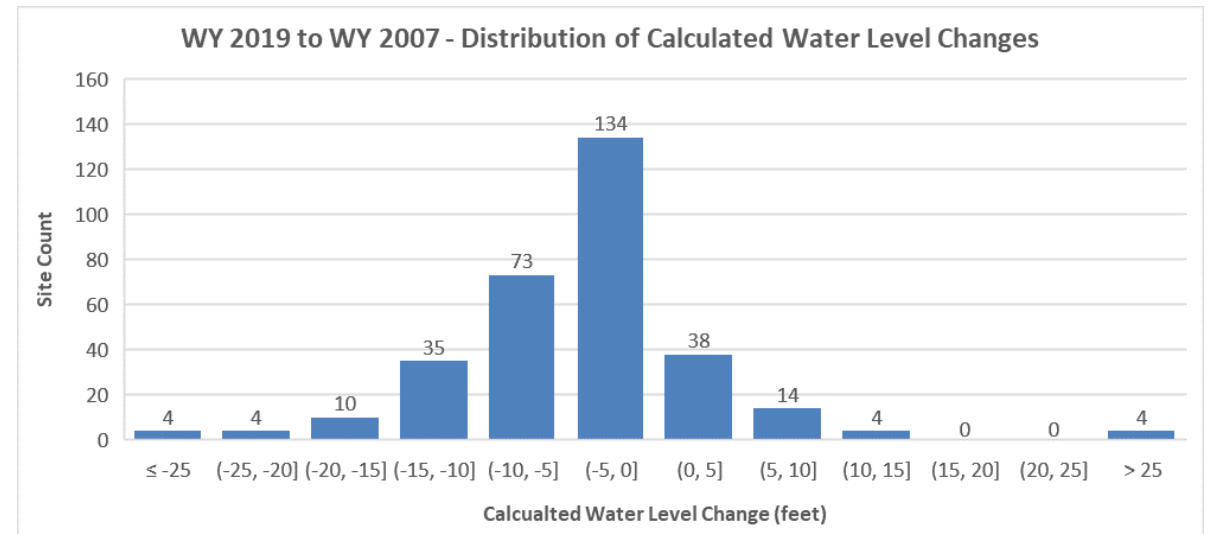
Available through the ADWR e-library:
<https://new.azwater.gov/hydrology/e-library>

Groundwater level change values between WY 2002 and WY 2007.



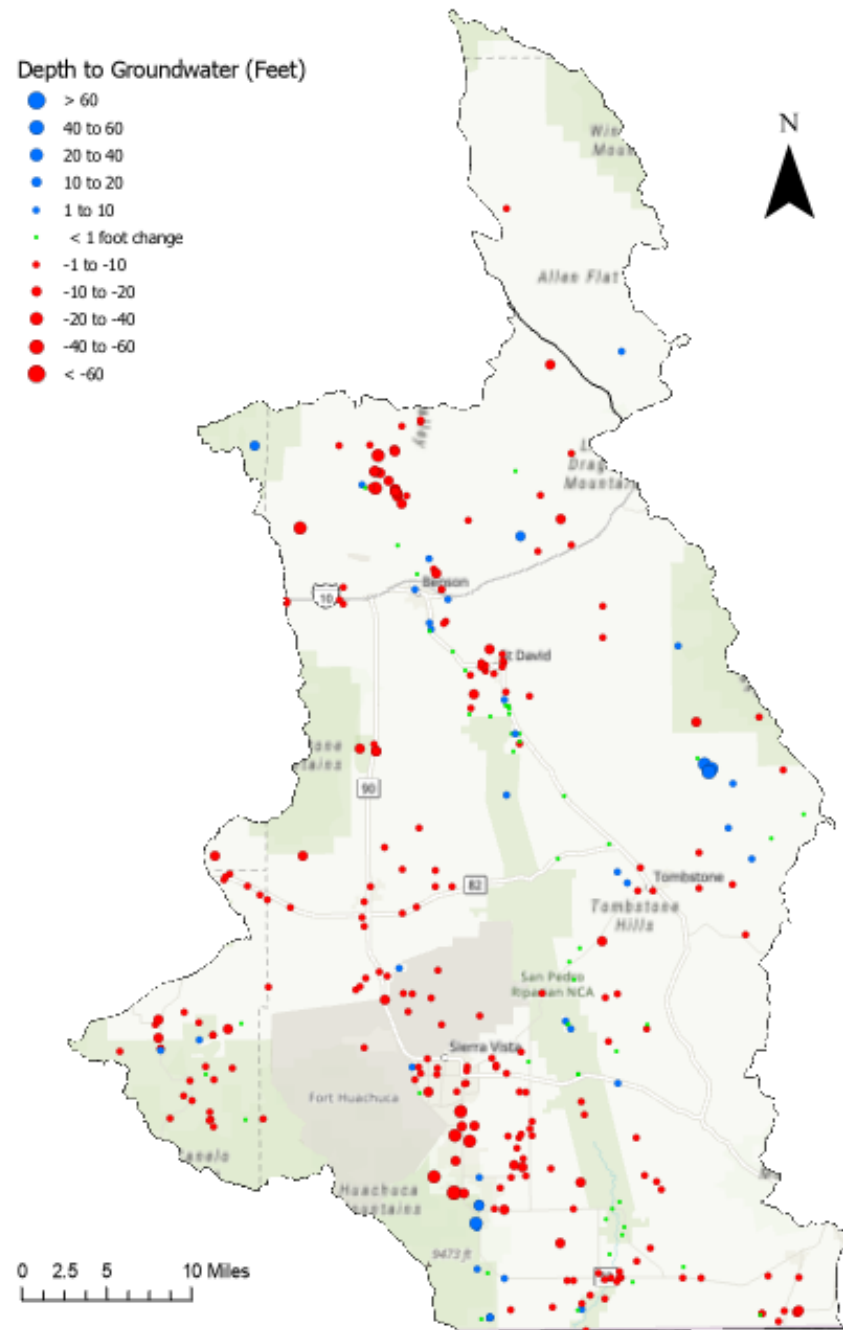
USP Water Level Change Map No. 10

- Water level change values between WY 2007 and WY 2019 (12-year timeframe of comparison)
- Total of 320 water level change values.
- Maximum water level decline: -51.6 feet
- Maximum water level rise: 49.7 feet
- Mean water level change: -3.9 feet
- Median water level change: -3.1 feet
- Mean annual rate of water level change: -0.33 feet/year
- Median annual rate of water level change: -0.26 feet/year



Available through the ADWR e-library:
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*Groundwater level change values
between WY 2007 and WY 2019.*



Questions?

Carl Job, Field Services, Arizona Department of Water Resources
cjob@azwater.gov

Teri Davis, Field Services Section Manager, Arizona Department of Water Resources
tdavis@azwater.gov

Arizona Department of Water Resources Homepage: <https://new.azwater.gov/>

Ground Water Site Inventory Data Portal: <https://gisweb.azwater.gov/waterresourcedata/gwsi.aspx>

