

FACTS AND FIGURES

Verde Basin - Other Water Projects of Significance

CENTRAL YAVAPAI HIGHLANDS WATER RESOURCES MANAGEMENT STUDY

PURPOSE:

Quantify the future water demand of communities within the Central Highlands of Yavapai County and identify water resource management strategies to address projected water supply needs.

CENTRAL YAVAPAI COUNTY STUDY AREA:

- City of Prescott, Town of Prescott Valley, Town of Chino Valley, Town of Dewey-Humboldt, unincorporated county lands, and the Yavapai-Prescott Indian Tribe
- Big Chino area encompassing Williamson Valley, Paulden and ranch developments
- Verde Valley communities of Camp Verde, Cottonwood, Sedona, Clarkdale, unincorporated county lands, and the Yavapai-Apache Indian Tribe

STUDY OBJECTIVES:

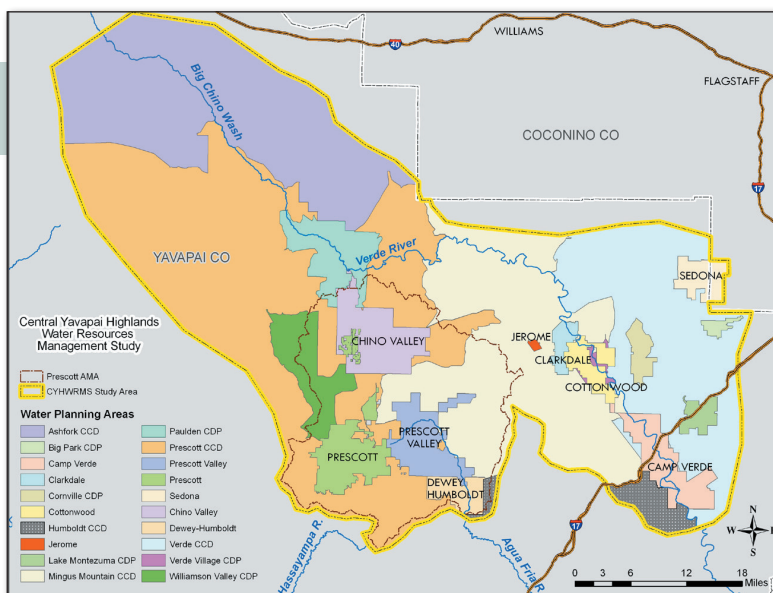
- Identify stakeholders
- Document present population, water demand and supply
- Project future population and water demand
- Identify potential future water supplies
- Establish evaluation criteria
- Identify water supply alternatives
- Recommend next steps

STUDY PARTNERS:

Technical Advisory Committee comprised of regional experts and those with responsibility for management of water resources; United States Bureau of Reclamation; Arizona Department of Water Resources.

PROJECTED COMPLETION DATE:

Fall 2013



Comprehensive Agreement #1

Big Chino Monitoring and Modeling

BACKGROUND:

Comprehensive Agreement #1 (CA #1) is the first detailed agreement outlined by a broader water rights settlement agreement (the Agreement in Principle, or AIP) between Prescott, Prescott Valley and Salt River Project (SRP). The AIP unwound litigation between the parties, amended ARS §45-555(E) and outlined several actions that the parties would take to mitigate potential pumping impacts on the Upper Verde River. CA #1 is the first of these actions.

PURPOSE:

Install a hydrologic monitoring network in the Big Chino sub-basin and use the information to create a detailed groundwater model of the sub-basin. The monitoring network and model will be useful for developing a mitigation strategy and to act as an early warning system of pumping impacts on spring flow.

CA #1 STUDY AREA:

- The Big Chino sub-basin, specifically focused on the area between the Big Chino Water Ranch and Paulden.

PROJECT OBJECTIVES:

- Install stream gages, groundwater monitoring wells, and weather stations as determined by knowledge gaps in the existing USGS model and detailed in the monitoring plan
- Development of a detailed, corrected groundwater flow model
- Create an early warning system for the Upper Verde Springs
- Use data and corrected model to guide development of a mitigation strategy

STUDY PARTNERS:

SRP, Prescott, Prescott Valley, Arizona Department of Water Resources, US Geological Survey.

PROJECTED COMPLETION DATE:

Monitoring network completed in 2017, model completion in 2019, monitoring on-going

PROJECT COST AND FUNDING:

Total project cost (first eight years) approximately \$5.6 million; operations and maintenance cost approximately \$318,000 per year after that. SRP is paying for 1/3 of the cost, Prescott and Prescott Valley pay for 2/3 of the cost.