



Water 101: What are the water resources for the Town of Clarkdale and how should we use and protect them?

Sustainable Clarkdale Initiative and Water Management Program

History of Clarkdale Water Management:

- Residents vote for Town water utility in March 2000.
- Town acquires local water company in January 2006.
- Town adopts SB1525 – Adequate Water Supply Requirements in September 2008.
- Town adopts a General Plan - Instilling a Culture of Sustainability in March, 2012.

Management strategies:

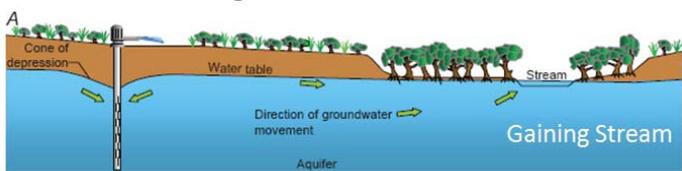
- Tiered Water Rate Structure in 2006
- Drought and Water Shortage Preparedness Plans in 2007
- Water Conservation Demonstration Projects – Centennial Plaza in 2012
- Replacement of Aging Infrastructure in 2012
- Ongoing Funding for Water Conservation, Water Resource Development and Regional Organizations



Sustainable Clarkdale means meeting the needs of the present without compromising the ability of future generations to meet their own needs

Mission: Clarkdale provides a water resources management program that meets the needs of residents, businesses and our natural environment equability in order to be a robust and resilient community.

Understanding our Water Resources: Groundwater and Surface Water



Clarkdale depends on groundwater for its water supply. Groundwater and surface water are connected. The following are important definitions.



GROUNDWATER: Water below ground surface

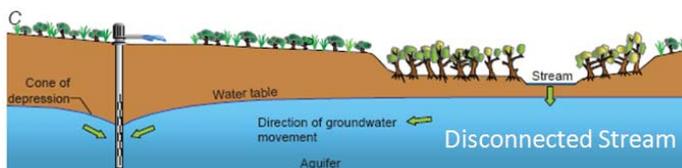
AQUIFER: A water-bearing stratum of permeable rock, sand, or gravel

SURFACE WATER: Water above ground surface

BASEFLOW: Groundwater component of streamflow

CAPTURE: Pumping-induced source water for wells

GROUNDWATER MODEL: A computer program used to make sense of a complex natural system



Source: USGS SIR 2010-5147

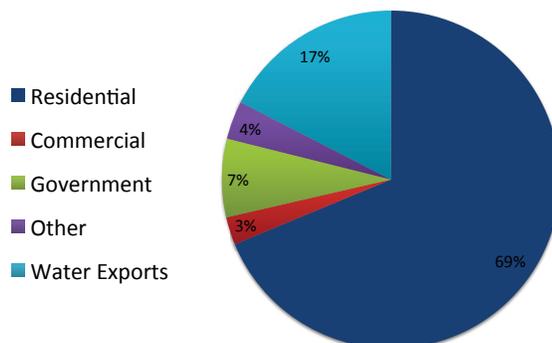
What is Water Demand?

Water demand is the amount of water pumped or diverted.

Water use is the amount of water consumed and not returned to the system.

Both water use and demand are measured in acre-feet (af). An acre-foot is equal to 325,851 gallons.

Clarkdale Water Use in 2012



In 2012 the Town of Clarkdale used 429 af of water.
Source: Report to the Mayor, Dec. 2012