

Helendale Valley Groundwater Basin

- Groundwater Basin Number: 7-48
- County: San Bernardino
- Surface Area: 2,637 acres (4 square miles)

Basin Boundaries and Hydrology

The Helendale Valley Groundwater Basin underlies Lone Valley in San Bernardino County at the northwestern boundary of the Colorado Desert Region. The basin is bounded by non-water-bearing rocks of the eastern San Bernardino Mountains and receives about 18 to 20 inches of precipitation each year (Flint and Martin 2012).

Hydrogeologic Information

Information was not available for the following subsections:

Groundwater Level Trends

Groundwater Storage

Groundwater Budget (Type C)

Groundwater Quality

Water-Bearing Formations

Groundwater is likely found in unconsolidated younger Quaternary alluvial deposits in the Basin. There are no known wells in the basin.

Restrictive Structures

A fault that is sub-parallel to the Helendale Fault may cut the northern part of the Basin (Bortugno and Spitler 1986); however it is unknown whether or not this fault is a barrier to groundwater movement.

Recharge Areas

Recharge to the basin is chiefly from the infiltration of runoff through alluvial deposits at the base of the surrounding mountains.

Well Characteristics

	Well yields (gal/min)
Municipal/Irrigation	Unknown
	Total depths (ft)
Domestic	Unknown
Municipal/Irrigation	Unknown

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
DWR	Groundwater levels	None
DWR	Miscellaneous Water Quality	None
Department of Health Services and cooperators	Title 22 water quality	Unknown

Basin Management

Groundwater management:	No known water management agency
Water agencies	
Public	Unknown
Private	Unknown

References Cited

- Bortugno EJ, and Spitler TE. 1986. *Geologic Map of California, San Bernardino Sheet*. Single Map Sheet, Scale 1:250,000.
- Flint LE, and Martin P eds. With contributions by Brandt J, Christensen AH, Flint AL, Flint LE, Hevesi JA, Jachens R, Kulongoski JT, Martin P, and Sneed M. 2012. *Geohydrology of Big Bear Valley, California: Phase 1– Geologic Framework, Recharge, and Preliminary Assessment of the Source and Age of Groundwater*: U.S. Geological Survey Scientific Investigations Report 2012–5100.

Errata

Changes made to the basin description will be noted here.