

Cady Fault Area Groundwater Basin

- Groundwater Basin Number: 6-90
- County: San Bernardino
- Surface Area: 7,960 acres (12.4 square miles)

Basin Boundaries and Hydrology

This groundwater basin underlies Hidden Valley in the Cady Mountains of central San Bernardino County. The basin is bounded by nonwater-bearing rocks of the Cady Mountains and on the south by the Cady fault (Dibblee and Bassett 1966; Rogers 1967). Surface water drains to a playa lake in the northern part of the valley which spills and drains eastward through Hidden Valley Wash (USGS 1982a, 1982b). Annual average precipitation ranges from about 4 to 8 inches.

Hydrogeologic Information

Water Bearing Formations

Quaternary alluvium forms the water-bearing material within the basin and includes unconsolidated younger alluvial deposits and underlying unconsolidated to semi-consolidated older alluvial deposits (DWR 1964). The younger alluvium consists of unconsolidated, undissected coarse gravel to sand deposited in alluvial fans (Dibblee and Bassett 1966). Older alluvium consists of presumed Pleistocene age gravel, sand, and silt of dissected alluvial fans a maximum thickness of about 150 feet (Dibblee and Bassett 1966).

Restrictive Structures

The Cady fault bounds the southern portion of the basin. It is unknown if it is a barrier to groundwater.

Recharge Areas

The principal source of recharge to the basin is likely percolation of runoff from surrounding mountains, with minor contribution from percolation of precipitation to the valley floor.

Groundwater Level Trends

The only well in this basin is reported to be 1,000 feet deep, near the playa lake, and was dry in 1959 (DWR 1963).

Groundwater Storage

Groundwater Storage Capacity. Unknown.

Groundwater in Storage. Unknown.

Groundwater Budget (Type C)

No information is available.

Groundwater Quality

Characterization. Unknown.

Impairments. Unknown.

Well Production Characteristics

Well yields (gal/min)

Municipal/Irrigation

Total depths (ft)

Domestic

Municipal/Irrigation

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	
	Miscellaneous water quality	
Department of Health Services and cooperators	Title 22 water quality	

Basin Management

Groundwater management:

Water agencies

Public

Private

References Cited

California Department of Water Resources (DWR). 1963. Wells and Springs in the Lower Mojave Area San Bernardino County, California. Bulletin 91-10. 19 p.

_____. 1964. Ground Water Occurrence and Quality, Lahontan Region. Bulletin 106-1.

Rogers, T. H. 1967. Geologic Map of California, San Bernardino Sheet. Single Map Sheet, Scale 1:250,000.

U S Geological Survey (USGS). 1982a. Hidden Valley East Quadrangle California – San Bernardino Co. 7.5 minute Topographic Series, provisional edition. Scale 1:24,000.

U S Geological Survey (USGS). 1982b. Hidden Valley West Quadrangle California – San Bernardino Co. 7.5 minute Topographic Series, provisional edition. Scale 1:24,000.

Additional References

California Department of Water Resources (DWR). 1975. California's Ground Water, Bulletin 118. 135 p.

Errata

Changes made to the basin description will be noted here.