

Seven Oaks Valley Groundwater Basin

- Groundwater Basin Number: 8-8
- County: San Bernardino
- Surface Area: 4,080 acres (0.6 square miles)

Basin Boundaries and Hydrology

This basin underlies a mountain valley in the upper reach of the Santa Ana River. The basin is bounded on the east by Big Meadows Valley Groundwater Basin along the Slide Peak fault (Rogers 1967) and elsewhere by impermeable crystalline rocks of the San Bernardino Mountains. The valley is drained by the Santa Ana River and receives an average annual precipitation ranging from 24 to 36 inches.

Hydrogeologic Information

Water Bearing Formations

Groundwater in the basin is found in alluvium that typically consists of clay, silt, sand, and gravel that reaches at least 50 feet thick.

Restrictive Structures

The Slide Peak and Santa Ana faults are mapped as cutting through basin materials (Rogers 1967); however, it is not known whether or not these faults impede groundwater movement.

Recharge Areas

Recharge is probably derived principally from percolation of precipitation and stream flow in the Santa Ana River.

Groundwater Level Trends

No information is available.

Groundwater Storage

Groundwater Storage Capacity. The total storage capacity is estimated at 14,000 af (DWR 1975).

Groundwater in Storage. No information is available.

Groundwater Budget (Type C)

No information is available.

Groundwater Quality

Characterization. No information is available.

Impairments. No information is available.

Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range:	Average:
Total depths (ft)		
Domestic	Range:	Average:
Municipal/Irrigation	Range:	Average:

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	1

Basin Management

Groundwater management:

Water agencies

Public San Bernardino County

Private

References Cited

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

Rogers, T. H. 1967. *Geologic Map of California, San Bernardino Sheet*. Single map sheet, scale 1:250,000.

Additional References

California Department of Public Works (DPW). 1934. South Coastal Basin Investigation, Ground Water Storage Capacity of Valley Fill. Bulletin 45. 279 p.

Errata

Substantive changes made to the basin description will be noted here.