

Vallecitos Creek Valley Groundwater Basin

- Groundwater Basin Number: 5-71
- County: San Benito
- Surface Area: 15,100 acres (24 square miles)

Basin Boundaries and Hydrology

Vallecitos Creek Valley Groundwater Basin is a northwest-southeast trending synclinal valley in the Coast Range Mountains of eastern San Benito County. The elevation ranges from 1,600 to 2,000 feet. The middle of the valley is occupied by Quaternary Alluvium surrounded by Plio-Pleistocene nonmarine sediments and Lower Miocene to Paleocene marine sediments (Jennings and Strand 1959). The basin is drained to the northwest and to the east from the syncline divide near the center of the basin. Vallecitos Creek drains to the northwest to Panoche Valley by way of Griswold Canyon and finally to the San Joaquin Valley via Panoche Creek. Los Pinos Creek drains the basin to the east and exits the mountains via Silver Creek. Average precipitation values range from 11 to 15 inches.

Hydrogeologic Information

Water Bearing Formations

No information was found in published literature regarding the occurrence of groundwater within the basin. Review of San Joaquin District well completion report files revealed records for three wells. The three wells were all located in the northwest portion of the basin. Well depths ranged from 80 to 122 feet, with initial water levels at 15 to 40 feet. No yield data was provided. There were no well records for the main body of the basin. Review of the USGS topographic maps of the area and a field reconnaissance revealed several stock wells. It is likely that the water bearing units are restricted to the shallow alluvium in the center of the valley.

Groundwater Level Trends

No information on groundwater level trends is available. Since wells are shallow it is likely that water levels fluctuate with the seasons and flow of the adjacent creeks.

Groundwater Storage

No information on groundwater storage is available. The shallow alluvium limits the amount of storage.

Groundwater Budget (Type C)

No information on groundwater budget is available.

Groundwater Quality

No information on groundwater quality is available. The surrounding marine rocks make it likely that water quality in the basin is marginal.

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
Department of Health Services and cooperators	Groundwater levels	None known
	Miscellaneous water quality	None known
	Title 22 water quality	0

Basin Management

Groundwater management:

Water agencies

Public None

Private

References Cited

California Department of Water Resources (DWR), San Joaquin District. Well completion report files.

Jennings, Charles W. and Rudolph G. (compilers). 1959. Santa Cruz Sheet of *Geologic Map of California*. California Division of Mines and Geology (CDMG). Scale 1:250,000.

Errata

Changes made to the basin description will be noted here.