

Long Valley Groundwater Basin

- Groundwater Basin Number: 5-31
- County: Lake
- Surface Area: 2,600 acres (square miles)

Basin Boundaries and Hydrology

Long Valley Groundwater Basin is located within a narrow elongated valley northeast of Clear Lake. The basin is bounded on most sides by the Franciscan Formation. A small portion of the southern boundary consists of Quaternary volcanic rocks. The valley is drained by Long Valley Creek which is tributary to North Fork Cache Creek. Groundwater is developed in Quaternary alluvium and, to a limited extent, Quaternary terrace deposits.

Annual precipitation ranges from 27- to 33-inches, increasing to the west.

Hydrogeologic Information

Hydrogeologic information was not available for the following:

Water-Bearing Formations

Groundwater Level Trends

Groundwater Storage

Groundwater Budget (Type B)

Estimates of groundwater extraction are based on a survey conducted by the California Department of Water Resources in 1995. The survey included landuse and sources of water. Estimates of groundwater extraction for agricultural and municipal/industrial uses are 760 and 23 acre-feet respectively. Deep percolation from applied water is estimated to be 210 acre-feet.

Groundwater Quality

Hydrogeologic information was not available.

Well Characteristics

	Well yields (gal/min)	
Municipal/Irrigation	Range 40 – 100	Average: 63 (3 Well Completion Reports)
	Total depths (ft)	
Domestic	Range: 30 – 215	Average: 99 (25 Well Completion Reports)
Municipal/Irrigation	Range 33 – 150	Average: 96 (7 Well Completion Reports)

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	NKD
	Miscellaneous water quality	NKD

NKD – No known data.

Basin Management

Groundwater management: Lake County adopted a groundwater management ordinance in 1999.

Water agencies

Public County of Lake

Private None

Selected References

Jennings CW., Strand RG. 1960. Geologic Map of California [Ukiah Sheet], California Division of Mines.

Bibliography

Bailey EH. 1966. Geology of Northern California. California Division of Mines and Geology. Bulletin 190.

California Department of Water Resources. 1975. California's Ground Water. California Department of Water Resources. Bulletin 118.

California Department of Water Resources. 1980. Ground Water Basins in California. California Department of Water Resources. Bulletin 118-80.

Dickinson WR, Ingersoll RV, Graham SA. 1979. Paleogene Sediment Dispersal and Paleotectonics in Northern California. Geological Society of America Bulletin 90:1458-1528.

Planert M, Williams JS. 1995. Ground Water Atlas of the United States, Segment 1, California, Nevada. USGS. HA-730-B.

Errata

Changes made to the basin description will be noted here.