

## Goose Valley Groundwater Basin

- Groundwater Basin Number: 5-47
- County: Shasta
- Surface Area: 4,210 acres (7 square miles)

### Basin Boundary and Hydrology

The Goose Valley Groundwater Basin consists of Quaternary lake deposits in a region of northwest trending faults in the mountains of eastern Shasta County. The basin is bounded to the west, north, and east by Pliocene basalt and to the south by Pliocene basalt (Gay 1958). Annual precipitation ranges from 29- to 33-inches.

### Hydrogeologic Information

Hydrogeologic information was not available for the following:

#### *Water-Bearing Formations*

#### *Groundwater Level Trends*

#### *Groundwater Storage*

#### *Groundwater Budget*

The estimate of groundwater extraction for Goose Valley Basin is based on a 1995 survey conducted by the California Department of Water Resources. The survey included land use and sources of water. Groundwater extraction for municipal and industrial uses is estimated to be 2 acre-feet. Deep percolation of applied water is estimated to be 1,100 acre-feet.

#### *Groundwater Quality*

### Well Characteristics

		Well yields (gal/min)	
Municipal/Irrigation		NKD	
		Total depths (ft)	
Domestic	Range: 140 – 284	Average: 203 (3 Well Completion Reports)	
Municipal/Irrigation	Range: 320 – 454	Average: 387 (2 Well Completion Reports)	

NKD – No Known Data

### Active Monitoring Data

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

NKD – No Known Data

## Basin Management

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Groundwater management: Shasta County adopted a groundwater management ordinance in 1998.

### Water agencies

Public None

Private None

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## Selected Reference

Gay Jr. TE and Aune QA. 1958. Geologic Map of California [Westwood Sheet]. California Division of Mines and Geology.

## Bibliography

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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.

California Department of Water Resources. 1984. Eastern Shasta County Ground Water Study, California Department of Water Resources, Northern District.

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.