

Cow Head Lake Groundwater Basin

- Groundwater Basin Number: 6-91
- County: Modoc
- Surface Area: 5,600 acres (square miles)

Basin Boundaries and Hydrology

The Cow Head Lake Groundwater Basin is located northeast of Surprise Valley. The basin consists of Quaternary lake bed deposits and is bounded on all sides by Miocene volcanic rocks (Gay 1958). Annual precipitation is approximately 13- to 17-inches, increasing to the east.

Hydrogeologic Information

Water-Bearing Formations

The primary water-bearing formation in the basin is Quaternary lake bed deposits. These deposits consist of clay, silt, sand, and gravel to a depth of approximately 300-feet based on a single well log on file. Intermittent layers of volcanic rock are encountered below that depth.

Hydrogeologic information was not available for the following:

Groundwater Level Trends

Groundwater Storage

Groundwater Budget

Groundwater Quality

Well Characteristics

		Well yields (gal/min)
Municipal/Irrigation		NKD
		Total depths (ft)
Domestic		687 (1 Well Completion Report)
Municipal/Irrigation		
NKD – No known data.		

Active Monitoring Data

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

Basin Management

Groundwater management: No known groundwater management plans, groundwater ordinances, or basin adjudications.

Water agencies

Public None

Private None

Selected References

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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.

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.