

Lake Britton Area Groundwater Basin

- Groundwater Basin Number: 5-46
- County: Shasta
- Surface Area: 14,060 acres (22 square miles)

Basin Boundary and Hydrology

Lake Britton Groundwater Basin is located within a west-northwest trending valley in a region of several northwest trending faults. The basin is bounded to the south by Pleistocene basalt, to the west by Tertiary andesite, and to the north by Miocene basalt and Pliocene andesite (Gay 1968, Lydon 1969).

The valley is drained by the Pit River. Annual precipitation ranges from 21- to 43-inches, increasing to the east.

Hydrogeologic Information

Hydrogeologic information was not available for the following:

Water-Bearing Formations

Groundwater Level Trends

Groundwater Storage

Groundwater Budget (Type B)

The estimate of groundwater extraction for the Lake Britton Area Basin is based on 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 5 acre-feet. Deep percolation of applied water is estimated to be 10 acre-feet.

Groundwater Quality

Well Characteristics

		Well yields (gal/min)	
Municipal/Irrigation		Range: NKD	
		Total depths (ft)	
Domestic		Range: 46 – 415	Average: 133 (17 Well Completion Reports)
Municipal/Irrigation		Range: NKD	

NKD – No Known Data

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	NKD
	Miscellaneous water quality	NKD
Department of Health Services	Miscellaneous water quality	2

NKD - No Known Data

Basin Management

Groundwater management:	Shasta County adopted a groundwater management ordinance in 1998
Water agencies	
Public	None
Private	None

Selected References

- Gay TE, Jr., Aune QA. 1968. Geologic Map of California, [Alturas Sheet]. California Division of Mines and Geology. Atlas.
- Lydon PA, Gay TE, Jennings CW. 1969. Geologic Atlas of California [Westwood Sheet]. California Division of Mines and Geology.

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.
- California Department of Water Resources. 1984. Eastern Shasta County Ground Water Study, California Department of Water Resources, Northern District.
- Dickinson WR, Ingersoll RV, Grahm 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.