Dixie Valley Groundwater Basin

- Groundwater Basin Number: 5-53
- County: Lassen
- Surface Area: 4,870 acres (8 square miles)

Basin Boundaries and Hydrology

The Dixie Valley Groundwater Basin is an elongated east/west trending alluvial basin located south of Bald Mountain and west of Madeline Plains in western Lassen County. The basin is bounded to the south by Pleistocene basalt and on all other sides by Pliocene basalt (Lydon 1960). Indian Creek flows into the valley from the east. The valley is drained by Horse Creek which flows northwest to the Pit River. Annual precipitation in the basin ranges from 17- to 19-inches.

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 Dixie Valley Basin is based on a 1997 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 420 acre-feet.

Groundwater Quality

Well Characteristics

	Well yields (gal/min)
Municipal/Irrigation	NKD
	Total depths (ft)
Domestic	NKD
Municipal/Irrigation	

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

Groundwater management:	No known groundwater management plans, groundwater ordinances, or basin adjudications.
Water agencies	
Public	None
Private	None

Selected References

Lydon PA, Gay TE, Jennings CW. 1960. Geologic Atlas of California [Westwood Sheet]. California Division of Mines and Geology.

Additional References

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, 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.