

Red Rock Valley Groundwater Basin

- Groundwater Basin Number: 1-18
- County: Siskiyou
- Surface Area: 9,000 acres (14 square miles)

Basin Boundaries and Hydrology

The Red Rock Valley Groundwater Basin is located due south of Sheep Mountain and the Mahogany Mountain ridge to the east of Butte Valley. The basin is bounded on the north by Pliocene basalt of Sheep Mountain. The basin is bounded to the southeast by Holocene basaltic flows, considered to be a recharge area, and on the southwest by Pleistocene Butte Valley Basalt, a highly permeable, high yielding groundwater source. Basin deposits consist of Quaternary alluvium consisting largely of semiconsolidated lake deposits (Wood 1960). Annual precipitation ranges from 15- to 17-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 Red Rock Valley Basin is based on a 1991 survey conducted by the California Department of Water Resources. The survey included land use and sources of water. Groundwater extraction for agricultural use is estimated to be 8,100 acre-feet. Groundwater extraction for municipal and industrial uses is estimated to be 27 acre-feet. Deep percolation of applied water is estimated to be 1,500 acre-feet.

Groundwater Quality

Hydrogeologic information was not available.

Well Production characteristics

Well yields (gal/min)		
Municipal/Irrigation	NKD	
Total depths (ft)		
Domestic	Range: 59 – 266	Average: 166 (10 Well Completion Reports)
Municipal/Irrigation	Range: 182 – 510	Average: 287 (19 Well Completion Reports)

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:	The County of Siskiyou adopted a groundwater management ordinance in 1998.
Water agencies	
Public	None
Private	None

Selected References

Wood PR. 1960. Geology and Groundwater Features of the Butte Valley Region Siskiyou County California. Geological Survey Water-Supply Paper 1491.

Bibliography

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Gay TE, Jr., Aune QA. 1968. Geologic Map of California, [Alturas Sheet]. California Division of Mines and Geology. Atlas.

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Errata

Changes made to the basin description will be noted here.