McCloud Area Groundwater Basin

• Groundwater Basin Number: 5-35

• County: Siskiyou

• Surface Area: 21,320 acres (33 square miles)

Basin Boundary and Hydrology

The McCloud Area Groundwater Basin is located at the base of Mount Shasta on the southeast slope. Elevation of the basin ranges from 3,060 feet mean sea level in the south to 6,000 feet mean sea level in the north. The basin is bounded to the west by Pleistocene volcanic rocks and glacial deposits of Mount Shasta. The basin is bounded to the north by Pliocene basalt, to the east by Pliocene basalt and Pleistocene volcanic rocks, and to the south by Paleozoic marine sedimentary and metasedimentary rocks (Strand 1962). Numerous creeks that drain Mount Shasta transect the basin and McCloud River drains the basin to the south. Annual precipitation ranges from 49- to 55-inches, increasing to the north.

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 McCloud Area 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 3 acre-feet. Groundwater extraction for municipal and industrial uses is estimated to be 420 acre-feet. Deep percolation of applied water is estimated to be 280 acre-feet.

Groundwater Quality

Water Quality in Public Supply Wells

Constituent Group ¹	Number of wells sampled ²	Number of wells with a concentration above an MCL ³
Inorganics – Primary	0	0
Radiological	0	0
Nitrates	1	0
Pesticides	0	0
VOCs and SVOCs	0	0
Inorganics – Secondary	0	0

¹ A description of each member in the constituent groups and a generalized discussion of the relevance of these groups are included in *California's Groundwater – Bulletin 118* by DWR (2003).

Represents distinct number of wells sampled as required under DHS Title 22 program from 1994 through 2000.
Each well reported with a concentration above an MCL was confirmed with a

³ Each well reported with a concentration above an MCL was confirmed with a second detection above an MCL. This information is intended as an indicator of the types of activities that cause contamination in a given basin. It represents the water quality at the sample location. It does not indicate the water quality delivered to the consumer. More detailed drinking water quality information can be obtained from the local water purveyor and its annual Consumer Confidence Report.

Well Characteristics

Well yields (gal/min)				
Irrigation		380 (1 Well Completion Report)		
Total depths (ft)				
Domestic	Range: 43 – 280	Average: 132 (32 Well Completion Reports)		
Irrigation	Range: 112 – 227	Average: 170 (2 Well Completion Reports)		

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	NKD
	Miscellaneous water quality	NKD
Department of Health Services	Miscellaneous water quality	1

NKD - No Known Data

Basin Management

Groundwater management:	Siskiyou County adopted a groundwater management ordinance in 1998.
Water agencies	•
Public	McCloud CSD
Private	None

Selected References

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U. S. Geological Survey. 1956. Plan and Profile, McCloud River, California: Shasta Lake to Mile 38.5; Squaw Valley Creek to Mile 20--Dam Sites. USGS.

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Errata

Changes made to the basin description will be noted here.