American Valley Groundwater Basin

• Groundwater Basin Number: 5-10

• County: Plumas

• Surface Area: 6,800 acres (11 square miles)

Basin Boundaries and Hydrology

The American Valley Groundwater Basin is bounded to the southwest and northeast by a northwest trending fault system. The basin is bounded to the northeast by Paleozoic metavolcanic rocks and is bounded on all other sides by Paleozoic marine sedimentary and meta-sedimentary rocks of the Sierra Nevada Mountains. Spanish Creek drains the valley and is tributary to the North Fork Feather River to the northwest. Annual precipitation ranges from 43- to 49-inches, increasing to the southwest.

Hydrogeologic Information

Hydrogeologic information was not available for the following:

Water-Bearing Formations Groundwater Level Trends

Groundwater Storage

DWR (1960) estimates storage capacity to be 50,000 acre-feet for a saturated depth interval of 10 to 210-feet.

Groundwater Budget (Type B)

The estimate of groundwater extraction for the American Valley Basin is based on a 1997 survey conducted by the California Department of Water Resources. The survey included landuse and sources of water. Groundwater extraction for municipal and industrial uses is estimated to be 1,400 acre-feet. Deep percolation of applied water is estimated to be 800 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	29	0
Radiological	14	0
Nitrates	34	0
Pesticides	12	0
VOCs and SVOCs	13	1
Inorganics – Secondary	29	7

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).

² Represents distinct number of wells sampled as required under DHS Title 22 program from 1994 through 2000.

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)

Municipal/Irrigation 40 (2 Well Completion

Reports)

Total depths (ft)

Domestic Range: 20 – 561 Average: 127 (286 Well

Completion Reports)
Range: 44 – 250
Average: 125 (15 Well
Completion Reports)

Active Monitoring Data

Municipal/Irrigation

Agency Parameter Number of wells

/measurement frequency

Groundwater levels NKD

DWR Miscellaneous 4 wells bi-yearly

water quality

Department of Miscellaneous 11

Health Services water quality

NKD - No Known Data

Basin Management

Groundwater management: No known groundwater management plans,

groundwater ordinances, or basin

adjudications

Water agencies

Public Quincy Community SD, East Quincy Services

District.

Private None

Selected References

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Errata

Changes made to the basin description will be noted here.