

Ash Valley Groundwater Basin

- Groundwater Basin Number: 5-54
- County: Lassen
- Surface Area: 6,010 acres (9 square miles)

Basin Boundaries and Hydrology

The Ash Valley Groundwater Basin is located in northeastern Lassen County. The basin is an alluvial filled valley located within a region of northwest trending faults. The basin is bounded to the east and west by Miocene basalt, to the north by Pliocene basalt, and to the north by Tertiary pyroclastic rocks and Pliocene basalt (Gay 1958). The valley is drained to the northwest by Ash Creek. Annual precipitation in the valley ranges from 17- to 21-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 Ash 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 3 acre-feet. Deep percolation of applied water is estimated to be 560 acre-feet.

Groundwater Quality

Well Characteristics

Well yields (gal/min)		
Irrigation	Range: 600 - 3000	Average: 2200 (2 Well Completion Reports)
Total depths (ft)		
Domestic		200 (1 Well Completion Report)
Irrigation	Range: 365 – 640	Average: 509 (6 Well Completion Reports)

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:

Water agencies

Public

Private

Selected References

- California Department of Water Resources. 1963. Northeastern Counties Groundwater Investigation, Volume 1, Text. California Department of Water Resources. Bulletin 98. 224 p.
- California Department of Water Resources. 1963. Northeastern Counties Investigation, Volume 2, Plates. California Department of Water Resources. Bulletin 98.
- California Department of Water Resources. 1965. Northeastern Counties Ground Water Investigation, Appendix C, Geology. California Department of Water Resources, Northern District. Bulletin 98.
- Gay TE, Jr., Aune QA. 1958. Geologic Map of California, [Alturas Sheet]. California Division of Mines and Geology. Atlas.

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.
- 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.