Happy Camp Town Area Groundwater Basin

- Groundwater Basin Number: 1-15
- County: Siskiyou
- Surface Area: 2,770 acres (4 square miles)

Basin Boundaries and Hydrology

The Happy Camp Town Area Groundwater Basin is an irregularly shaped basin that follows a short reach of the Klamath River. The basin is bounded on the west by the western Jurassic belt of the Klamath Mountains consisting of Upper Jurassic marine metasedimentary rocks. The eastern half of the basin lies within the western Paleozoic and Triassic belt and is bounded by pre-Silurian metamorphic rocks. The basin is comprised of Quaternary non-marine terrace deposits (Wagner 1989; Strand 1963).
Annual precipitation in the basin ranges from 51- to 57-inches.

Hydrogeologic Information

Hydrogeologic information was not available for the following:

Water-Bearing Formations

Groundwater Level Trends

Groundwater Storage

Groundwater Budget (Type B)

Deep percolation of applied water is approximately 450 acre-feet based on a 1991 survey conducted by the California Department of Water Resources.

Groundwater Quality

Hydrogeologic information was not available.

Well Production characteristics

Well yields (gal/min)

Irrigation	NKD	

Total depths (ft)

Domestic	Range: 40 – 345	Average: 165 (23 Well Completion Reports)
Irrigation		60 (1 Well Completion Report)

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	Happy Camp CSD
Private	

Selected References

Davis GA, Lipman PW. 1962. Revised Structural Sequences of Pre-Cretaceous Metamorphic Rocks in the Southern Klamath Mountains, California. Geological Society of America 73(12):1547-1552.

Davis GA. 1966. Metamorphic and Granitic History of the Klamath Mountains. California Division of Mines and Geology. Bulletin 190. 39-50 p.

Irwin WP. 1960. Geologic Reconnaissance of the Northern Coast Ranges and Klamath Mountains, California. California Division of Mines and Geology. Bulletin 179.

Irwin WP. 1966. Geology of the Klamath Mountain Province. California Division of Mines and Geology. Bulletin 190. 19-38 p.

Irwin WP. 1981. Tectonic Accretion of the Klamath Mountains. In: Ernst WG, editor. The Geotectonic Development of California: Prentice Hall, Inc. p 29-49.

Pessagno EA, Blome CD. 1990. Implications of New Jurassic Stratigraphic, Geochronometric, and Paleolatitudinal Data from the Western Klamath Terrane (Smith River and Rogue Valley Subterranes). Geology.

Strand RG. 1963. Geologic Map of California [Weed Sheet]. Scale 1:250,000. California Division of Mines and Geology.

Wagner, D.L. 1989. Geology of Del Norte and Siskiyou Counties and Adjacent Portions of Humboldt, Shasta, and Trinity Counties. California Geology. January 1989.

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.

Smith JG, Page NJ, Johnson MG, Moring BC, Gray F. 1982. Preliminary Geologic Map of the Medford 1 x 2 Degree Quadrangle, Oregon and California. USGS. OF-82-955.

Strand RG. 1969. Geologic Atlas of California [Weed Sheet]. California Division of Mines and Geology.

Wagner DL, Saucedo GJ. 1987. Geologic Map of the Weed Quadrangle, California, Regional Geologic Map Series 4A. California Division of Mines and Geology.

Errata

Changes made to the basin description will be noted here.

Last update 2/27/04