

Pepperwood Town Area Groundwater Basin

- Groundwater Basin Number: 1-30
- County: Humboldt
- Surface Area: 6,290 acres (10 square miles)

Basin Boundaries and Hydrology

The Pepperwood Town Area Groundwater Basin occupies a small alluviated valley along the Eel River downstream of the community of Englewood. The basin is bounded on most sides by Tertiary marine sedimentary rocks of the Wildcat series (Strand 1962). The Wildcat series is a group of five formations ranging in age from Miocene to Pleistocene consisting of sandstone, marine siltstone, and claystone (Evenson 1959). The basin is bounded to a limited extent to the west by Upper Cretaceous marine sedimentary rocks (Strand 1962). The basin's primary aquifer is comprised of Quaternary non-marine terrace and alluvial deposits. Annual precipitation ranges from 45- to 53-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 Pepperwood Town Area Basin is based on a 1996 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 850 acre-feet. Groundwater extraction for municipal and industrial uses is estimated to be 97 acre-feet. Deep percolation of applied water is estimated to be 230 acre-feet.

Groundwater Quality

Hydrogeologic information was not available.

Well Production characteristics

	Well yields (gal/min)	
Irrigation	NKD	
	Total depths (ft)	
Domestic	Range: 26 - 170	Average: 68 (21 Well Completion Reports)
Irrigation	Range: 33 - 55	Average: 44 (2 Well Completion Reports)

NKD – No known data

Active Monitoring Data

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

Basin Management

Groundwater management:	No known groundwater management plans, groundwater ordinances, or basin adjudications.
Water agencies	
Public	None
Private	None

Selected References

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- Irwin WP. 1960. Geologic Reconnaissance of the Northern Coast Ranges and Klamath Mountains, California. California Division of Mines and Geology. Bulletin 179.
- Strand RG. 1962. Geologic Map of California, [Redding Sheet]. Scale 1:250,000. California Division of Mines and Geology.

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- 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, Graham 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.