Sweet water Flat Groundwater Basin

• Groundwater Basin Number: 6-107

• County: Mono

• Surface Area: 4,700 acres (7 square miles)

Basin Boundaries and Hydrology

Sweetwater Flat groundwater basin is located at the eastern base of the Sierra Nevada and straddles the California - Nevada State Line in northern Mono County. The basin rises to over 7,000 feet in the upland areas and is less than 6,200 feet in the valley. Sweetwater Flat lies generally in a north-south direction and terminates at the California - Nevada State Line. The East Walker River flows along the eastern side of Sweetwater Flat and is the confluence of many streams draining the eastern slopes of the Sierra Nevada. The East Walker River exits the basin and eventually drains into Walker Lake, Nevada. Frypan Creek and Green Creek are other important tributaries in the Sweetwater Flat groundwater basin.

Average annual precipitation in the basin ranges from 12 inches to 24 inches, increasing from valley floor to the upland areas.

Hydrogeologic Information Water Bearing Formations

The primary water-bearing formations are recent valley sediments.

Recent Valley Sedimentary Deposits

Due to the lack of published data the descriptions of the Sweetwater Flat groundwater basin hydrogeology is limited. The principal source of groundwater in the Sweetwater Flat groundwater basin is from basin-fill deposits. Division of Mines and Geology map, Walker Lake Sheet, indicate alluvium in the northern portions of the basin. The southeastern portion and the southern apex of the basin are primarily Pliocene volcanics and Pleistocene nonmarine.

Due to lack of borehole data, descriptions of materials are not available.

Groundwater Level Trends

No published data was found for the Sweetwater Flat groundwater basin.

Groundwater Storage

No published data was found for the Sweetwater Flat groundwater basin

Groundwater Budget (Type C)

Due to lack of groundwater budget data, inflows, including natural, applied, and artificial recharge and outflows including urban and agricultural extraction have not been included.

Groundwater Quality

Characterization. No published data was found for the Sweetwater Flat basin.

Impairments. No published data was found for the Sweetwater Flat groundwater basin.

Well Characteristics

Well yields (gal/min)				
Municipal/Irrigation	Range:	Average: Unknown		
Total depths (ft)				
Domestic	Range:	Average: Unknown		
Municipal/Irrigation	Range:	Average: Unknown		

Active Monitoring Data

Agency	Parameter Groundwater levels	Number of wells /measurement frequency No wells monitored at this time
	Miscellaneous water quality	No wells monitored at this time
Department of Health Services and cooperators	Title 22 water quality	No wells monitored at this time

Basin Management

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Groundwater management:	None identified
Water agencies	
Public	Bridgeport Public Works
Private	

References Cited

Jennings, O.P. and Koenig, J.B., 1963, Geologic map of California: California Division of Mines and Geology, Geologic Map Series Walker Lake Sheet, scale 1:250,000.

California Department of Water Resources, 1991, Walker River Atlas: Sacramento, Calif.

California Department of Water Resources, 1964, Bulletin 64, West Walker River Investigation: Sacramento, Calif.

California Department of Water Resources, 1960, Report on Bridgeport Valley Ground-Water Investigation, Sacramento, Calif

Errata

Changes made to the basin description will be noted here.