

Majors Creek Groundwater Basin

- Groundwater Basin Number: 3-51
- County: Santa Cruz
- Surface Area: 364 acres (1 square mile)

Basin Boundaries and Hydrology

Majors Creek Groundwater Basin is comprised of marine terrace deposits generally seaward (southwest) of Highway 1 to the Pacific Ocean near where Majors Creek empties into the ocean. Elevation ranges from 60 to 100 feet above sea level. The marine terrace deposits are Pleistocene in age and are surrounded by Middle Miocene Marine rocks (Jennings 1958). The basin boundary confidence is considered low due to undetermined depth of the terrace deposits and the lack of information regarding groundwater occurrence or movement. Average precipitation values are approximately 29 inches.

Hydrogeologic Information

Water Bearing Formations

No specific published information on the water bearing units was found. A review of San Joaquin District well completion report files found only three well reports in the basin. Depths of these wells were 58, 65 and 245 feet below the land surface. The well records show gravel and sand to about 50 or 60 feet and shale to 105 feet with hard rock below this depth. The only reported use of the wells in this basin is for irrigation.

Groundwater Level Trends

No data was found regarding water levels or trends.

Groundwater Storage

No information on groundwater storage was found.

Groundwater Budget (Type C)

There is no information to provide an estimate of this basin's budget.

Groundwater Quality

No information on groundwater quality was found. Seawater intrusion is a likely hazard within this basin due to the proximity of the ocean.

Well Production Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range: 25– 50	Average: 38 (two wells)
Total depths (ft)		
Domestic	Range:	Average:
Municipal/Irrigation	Range: 58 - 245	Average: 122 (three wells)

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
Department of Health Services and cooperators	Groundwater levels	0
	Miscellaneous water quality	0
	Title 22 water quality	0

Basin Management

Groundwater management:	None
Water agencies	
Public	None
Private	None

References Cited

California Department of Water Resources (DWR), San Joaquin District. Well completion report files.

Jennings, Charles W. and Rudolph G. Strand (compilers). 1958. Santa Cruz Sheet of *Geologic Map of California*. California Division of Mines and Geology (CDMG). Scale 1:250,000.

Errata

Changes made to the basin description will be noted here.