

Collins Valley Groundwater Basin

- Groundwater Basin Number: 7-55
- County: Riverside, San Diego
- Surface Area: 7,080 acres (11.1 square miles)

Basin Boundaries and Hydrology

This basin underlies Collins, Fig Tree, and Yucca Valleys in southern Riverside and northeastern San Diego Counties. The valley is bounded by nonwater-bearing rocks of the Santa Rosa Mountains to the north and east and of Elder and Palms Peaks to the west. The valley is drained by Indian and Coyote Creeks southeastward toward Borrego Valley. Annual average precipitation ranges from 8 to 12 inches.

Hydrogeologic Information

Water Bearing Formations

Holocene alluvium and Pleistocene age terrace and nonmarine sedimentary deposits are mapped as the surficial deposits in this valley (Rogers 1965). Water-bearing materials of this basin probably consist of alluvium composed of boulders, gravel, sand, silt, and clay.

Restrictive Structures

Splays of the Coyote Creek fault and the San Jacinto fault zone are mapped in this basin; however, it is not known whether or not these faults impede groundwater flow through the basin.

Recharge Areas

Recharge to the basin is likely from percolation of runoff from the surrounding mountains through alluvial fans and stream channels.

Groundwater Level Trends

Unknown.

Groundwater Storage

Groundwater Storage Capacity. Unknown.

Groundwater in Storage. Unknown.

Groundwater Budget (Type C)

Groundwater budget information is not available.

Groundwater Quality

Characterization. Unknown.

Impairments. Unknown.

Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range: to 1,500 gal/min	Average:
Total depths (ft)		
Domestic	Range: to 410 ft.	Average:
Municipal/Irrigation	Range: to 780 ft.	Average:

Active Monitoring Data

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

Basin Management

Groundwater management:

Water agencies

Public

Private

References Cited

Rogers, T. H. 1965. *Geologic Map of California: Santa Ana Sheet*. Olaf P. Jenkins Edition. California Department of Conservation, Division of Mines and Geology. Scale 1: 250,000.

Errata

Changes made to the basin description will be noted here.