

## 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<br>/measurement frequency |
|---|--------------------------------|---|
| Department of<br>Health Services and<br>cooperators | Groundwater levels             |   |
|   | Miscellaneous<br>water quality |   |
|   | Title 22 water<br>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.