STEADY-STATE SURFACE-WATER RECHARGE

Recharge area		Acre-feet per year
Castaic Creek		1,200
San Francisquito Canyon		1,000
Bouquet Canyon		1,000
South Fork Santa Clara River		1,400
Santa Clara River	Reach No. 1	350
	Reach No. 2	350
	Reach No. 3	450
	Reach No. 4	650
	Reach No. 5	1,300
	Reach No. 6	450
	Reach No. 7	400
	Reach No. 8	350
	Reach No. 9	350
	Reach No. 10	350

EXPLANATION

Unconsolidated and semiconsolidated deposits

Consolidated rock

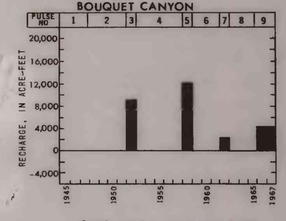
Boundary of alluvial aquifer

Boundary of Saugus aquifer

Fault

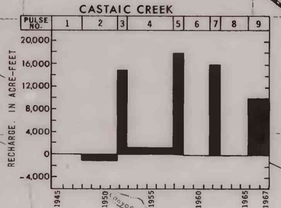
Dashed where approximately located; dotted where concealed

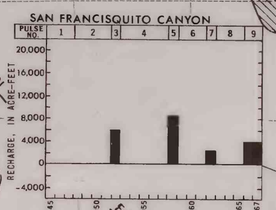
Stream-gaging station

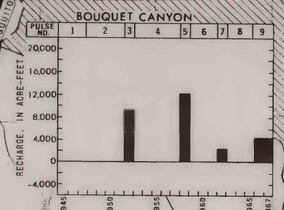


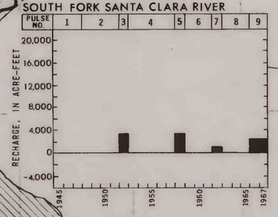
Graph showing non-steady-state recharge in acre-feet per year

See table 3 for non-steady-state surface-water recharge data









Base from U.S. Geological Survey 1:24,000. Val Verde, 1952, Newhall, 1952, Mint Canyon, 1960, Whitaker Peak, 1958, Warm Springs Mtn., 1958, Green Valley, 1958, and Oat Mtn., 1952

Geology generalized after California Division of Mines and Geology, Los Angeles Sheet, 1971

GROUND-WATER DISCHARGE

Discharge area		Acre-feet per year
Steady-state condition		
Santa Clara River	Reach A	4,800
	Reach B	10,100
	Reach C	6,600
	Reach D	1,700
Total		23,200
Non-steady-state condition		
Santa Clara River	Reach A	0
	Reach B	3,300
	Reach C	2,600
	Reach D	1,300
Total		7,200

0 1 2 3 4 MILES

HOW SURFACE-WATER RECHARGE AND GROUND-WATER DISCHARGE WERE MODELED

EXPLANATION

Unconsolidated and semiconsolidated deposits

Consolidated rock

Boundary of alluvial aquifer

Boundary of Saugus aquifer

Fault

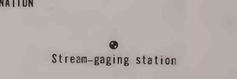
Dashed where approximately located; dotted where concealed

Stream-gaging station

Sampling site

CATIONS: Sodium, Calcium, Magnesium

ANIONS: Chloride, Bicarbonate, Sulfate



Water-quality diagram

Upper number is streamflow in cubic feet per second; lower number is dissolved solids, in milligrams per liter

Sewage effluent from treatment plant

Base from U.S. Geological Survey 1:24,000. Val Verde, 1952, Newhall, 1952, Mint Canyon, 1960, Whitaker Peak, 1958, Warm Springs Mtn., 1958, Green Valley, 1958, and Oat Mtn., 1952

Geology generalized after California Division of Mines and Geology, Los Angeles Sheet, 1971

0 1 2 3 4 MILES

CHEMICAL QUALITY OF SURFACE WATER

HOW SURFACE-WATER RECHARGE AND GROUND-WATER DISCHARGE WERE MODELED AND CHEMICAL QUALITY OF SURFACE WATER IN THE SAUGUS-NEWHALL AREA, CALIFORNIA