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UNITED STATES GEOLOGICAL SURVEY

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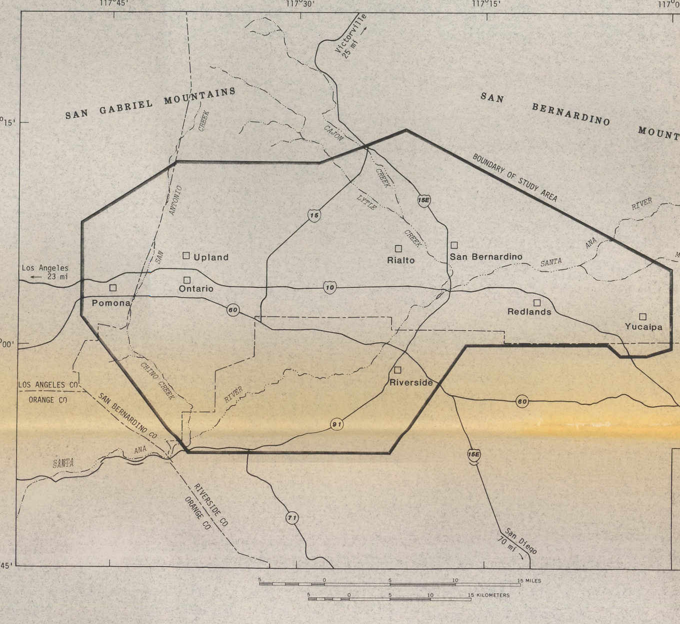

Figure 1.--Map showing location of the upper Santa Ana River valley study area, southern California

34°07'30"

EXPLANATION

CONTOUR LINE SHOWING MINIMUM DEPTH TO GROUND WATER DURING 1973-1979 PERIOD--Dashed where location uncertain; depth in feet below land surface

CONTOUR LINE SHOWING MINIMUM DEPTH TO PERCHED GROUND WATER DURING 1973-1979 PERIOD--Depth in feet below land surface

PARTIAL BARRIER TO GROUND-WATER FLOW

LOCATION OF WATER WELL--Map location numbers are listed in table 1 with their corresponding California Department of Water Resources areal designation and state well numbers

AREA OF SHALLOW GROUND WATER--Zone where ground water was shallower than 50 ft subsurface at least once during the 1973-1979 period

AREA OF BEDROCK--Consolidated sediment having very low to no susceptibility to liquefaction, and crystalline bedrock having no susceptibility to liquefaction

BOUNDARY OF STUDY AREA

Base from U. S. Geological Survey, 1:24,000, Cucamonga Peak, 1966; Glendora, San Dimas, Yorba Linda, 1972; Mt. Baldy, Devore, San Bernardino North, Harrison Mtn., Ontario, Guasti, Fontana, San Bernardino South, Redlands, Yucaipa, Prado Dam, Corona North, Riverside West, Riverside East, El Casco, 1973; Keller Peak, 1978.

117°37'30"

117°30'00"

APPROXIMATE MEAN DECLINATION, 1982

SCALE 1:48 000

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVAL FEET
DATUM IS MEAN SEA LEVEL

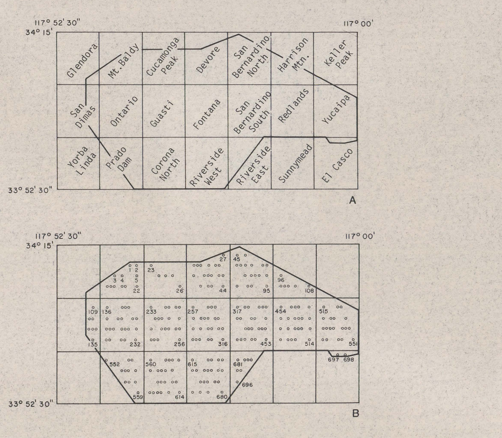

Figure 3.--Location maps showing quadrangles and well numbering system. A, Boundary of study area relative to 1:24,000-scale 7.5' topographic quadrangle maps. B, System used for assigning map location numbers. Within each quadrangle, the well locations are numbered progressively from west to east in approximately latitudinal rows, commencing in the northern part of each quadrangle and advancing to the south. The numbering of well locations progresses from one quadrangle to the next, in a west-to-east direction. Numbering begins with the northernmost row of quadrangles, and proceeds to the southernmost row.

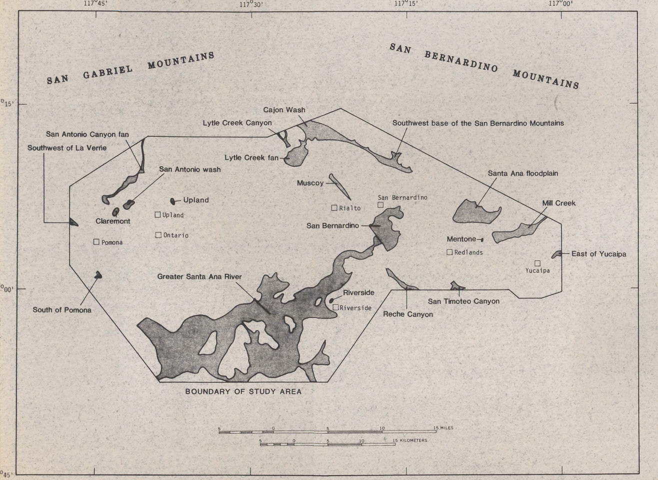

Figure 4.--Map showing names and general locations of areas of shallow ground water in the upper Santa Ana River valley region. Areas are shaded and correspond to shaded areas on the contour map. Due to insufficient data it was not possible to distinguish boundaries between the Lytle Creek fan area, the Cajon Wash area, and the southwest base of the San Bernardino Mountains area. See text for discussion of each area.

CONTOUR MAP SHOWING MINIMUM DEPTH TO GROUND WATER, UPPER SANTA ANA RIVER VALLEY, CALIFORNIA, 1973-1979

By
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1982

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.