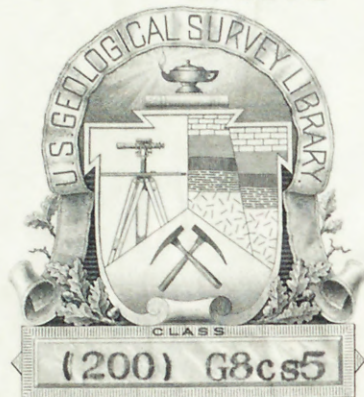


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Branch.

Water levels in observation
wells in Santa Barbara County,
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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Ground Water Branch

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WATER LEVELS IN OBSERVATION WELLS IN
SANTA BARBARA COUNTY, CALIFORNIA, IN 1961

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Prepared in cooperation with the
Santa Barbara County Water Agency

Santa Barbara, California
May 1962

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WATER LEVELS IN OBSERVATION WELLS IN
SANTA BARBARA COUNTY, CALIFORNIA, IN 1961

by

K. S. Muir

62-91

18/391

Prepared in cooperation with the
Santa Barbara County Water Agency

May 1962

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WATER LEVELS IN OBSERVATION WELLS IN
SANTA BARBARA COUNTY, CALIFORNIA, IN 1961

By K. S. Muir

INTRODUCTION

Investigation of the ground-water resources of Santa Barbara County was continued during 1961 by the U. S. Geological Survey in cooperation with the Santa Barbara County Water Agency. Monthly water-level measurements were made in 190 wells, in 9 of which automatic water-level recorders were operated. Earlier measurements, covering the period 1941 through 1955, have been published in U. S. Geological Survey Water-Supply Papers (1943-1957); those for 1956 through 1960 have been released locally in duplicated form (Muir and Merritt, 1957; Evenson, 1958; Miller, 1959; Muir, Merritt, and Miller, 1960; and Merritt, 1961). LaRocque, Jr., and others (1950) contains tabulated descriptions of 2,246 wells in existence in 1942 in the several ground-water basins of the county. The same publication also contains many water-level measurements made prior to 1942 by the city of Santa Barbara, Santa Maria Valley Water Conservation District, San Joaquin Power Division of the Pacific Gas and Electric Co., Union Sugar Co., Union Oil Co., and other organizations and individuals.

Comprehensive reports on the geology and ground-water resources of the Santa Ynez River basin (Upson and Thomasson, 1951, and Wilson, 1959), the south-coast basins (Upson, 1951), the Santa Maria Valley area (Worts, 1951), and the Cuyama Valley (Upson and Worts, 1951) have been published as Water-Supply Papers 1107, 1467, 1108, 1000, and 1110-B, respectively. A similar report on the San Antonio Creek Valley is in preparation. A report on stream runoff and ground-water storage capacity of the Santa Ynez River valley (Troxell and Wilson, 1952) was released to the open file on October 1952.

In addition to the water-level measurements made by the Geological Survey in 1961, measurements made by the Santa Maria Valley Water Conservation District are included in this report. Not included in this report are miscellaneous measurements made by the U. S. Bureau of Reclamation in wells along the middle reach of the Santa Ynez River between Cachuma Dam and Rucker Crossing.

The following table shows the scope of the observation-well program in Santa Barbara County in 1961.

Distribution of observation wells in Santa Barbara County in 1961

Area	:Number of observation wells:			:Number of recording gages at year end
	:Estab-	:Discon-	: at <u>1</u> / ₁	
	: lished:	: tinued	: year : : end :	
Carpinteria Basin	0	0	20	0
Goleta Basin	1	2	27	0
Santa Ynez River valley	2	6	71	6
San Antonio Creek valley	0	1	4	0
Santa Maria Valley	5	1	51	3
Cuyama Valley	0	1	17	0
Total	8	11	190	9

1/ Includes wells equipped with recording gages.

GENERAL HYDROLOGIC CONDITIONS

The climate in Santa Barbara County is characterized by a short rainy season in the winter, and a long dry season in the summer when nearly all the streams are dry. The extended lack of rainfall during the summer requires the use of supplemental water to sustain the crops of the valleys. Nearly all the water used for irrigation is pumped from the ground-water reservoirs which lie beneath the agricultural lands. In most areas domestic supplies also are obtained from these underground reservoirs, although the city of Santa Barbara and the Carpinteria, Goleta, Montecito, and Summerland County Water Districts depend largely upon surface storage accumulated behind Cachuma, Gibraltar, and Juncal Dams on the Santa Ynez River. Emergency wells, however, are used by these communities during periods of extended drought.

Replenishment of the ground-water reservoirs is dependent almost entirely on winter precipitation. Between 1945 and 1951 precipitation was below normal and, as a result, replenishment of most of the basins of the county was insufficient to meet requirements. Ground-water levels during this period were drawn down substantially, but the above-average rainfalls in the winters of 1951-52 and 1957-58 caused temporary cessations of the downward trend (figs. 1 and 2).

The south-coast communities, through the Santa Barbara County Water Agency and the U. S. Bureau of Reclamation, have united to solve their water-shortage problem by building Cachuma Dam and a distribution system for the conservation and use of floodwaters of the Santa Ynez River. Since April 1956 water from Cachuma Reservoir has been supplied to the south-coast communities to augment their water supplies.

The construction of Twitchell Dam on the Cuyama River near the Santa Maria Valley was completed in 1958 by the U. S. Bureau of Reclamation. Regulated releases of flood-waters impounded by this dam will be used to recharge the ground-water reservoir that lies beneath the Santa Maria plain.

PRECIPITATION

Precipitation in Santa Barbara County occurs principally as rainfall, which differs greatly from place to place, because of the orographic effect of the several mountain ranges with respect to storm movements. The county has an average annual precipitation ranging from about 6 inches in the Cuyama Valley to 30 inches or more in the higher parts of the Santa Ynez and San Rafael Mountains.

Data obtained from the U. S. Weather Bureau indicate below-average precipitation during the water year ending September 30, 1961. At Santa Barbara, in the southeast corner of the county, 10.04 inches (7.76 inches below the 94-year average) was recorded; and at Santa Maria, in the north west corner of the county, 7.09 inches (6.73 inches below the 76-year average) was recorded.

Figures 1 and 2 show precipitation at 3 stations, water-level fluctuations in 10 wells, and the cumulative departure from normal precipitation at Santa Maria. These graphs illustrate the relation of ground-water levels to precipitation. During "wet" years, water levels rise and indicate ground-water replenishment. During "dry" years, water levels decline and indicate ground-water depletion.

FLUCTUATIONS OF WATER LEVELS

From about 1945 through 1951 water levels throughout Santa Barbara County declined steadily as a result of increased water use and below-average precipitation. Ground-water depletion during the years 1945-51 was more serious in some basins than in others, depending upon the magnitude of the difference between withdrawals and replenishment. In the winter of 1951-52 above-average precipitation wholly, or almost wholly, replenished those basins in which overdraft was small, whereas in the basins of large overdraft only a small part of the depleted storage was restored. Precipitation and streamflow were below average in 1953, 1954, and 1955, and water levels in Santa Barbara County generally resumed the downward trend that prevailed during 1945-51. In the winter of 1955-56 precipitation over Santa Barbara County ranged from near normal to above normal, and ground-water levels in general reflected these differences in precipitation. Below-normal precipitation in the winter of 1956-57 was followed by a generally downward trend of water levels. The above-normal precipitation during the winter of 1957-58 caused a general reversal of this trend. Precipitation was below-average during the winters of 1958-59 through 1960-61 and water levels in most of the ground-water basins resumed a downward trend.

The following discussion of water-level fluctuations is by ground-water basins, because the basins are separated hydrologically. Figures 3 to 9 show the locations of observation wells in Santa Barbara County.

Carpinteria Basin

Water levels in the Carpinteria basin declined from the spring of 1960 to the spring of 1961. The water-level decline in the area of confined water that underlies the central and western parts of the basin averaged about 5 feet, and in the area of recharge along the base of the foothills it averaged about 6 feet. The hydrograph of well 4/25-27Q2 (fig. 1) is representative of water-level fluctuations in the area of confined water. Figure 3 shows the locations of observation wells in the Carpinteria basin.

During 1961 water samples were collected to determine the status of sea-water intrusion into the basin. The analyses from three key wells showed no significant increase in chloride concentration from 1960 to 1961.

Goleta Basin

In the confined-water area that underlies nearly all the central alluvial plain water levels in the spring of 1961 averaged about 1 foot higher than in the spring of 1960. Within the recharge area along the base of the foothills water levels in the spring of 1961 ranged from about 7 feet higher to 10 feet lower than in the spring of 1960, and averaged about 1 foot higher. In the western end of the Goleta Basin, an area that is hydrologically separate from the rest of the basin, the water levels in the spring of 1961 averaged about 3 feet higher than in the spring of 1960.

The hydrographs of wells 4/28-17H11 and 4/28-17R2 show water-level fluctuations in the area of confined water, and the hydrograph of well 4/28-9A3 shows water-level fluctuations in the area of recharge (fig. 1). Figure 4 shows the locations of observation wells in the Goleta Basin. In this basin, as in the Carpinteria Basin, periodic sampling of water from selected wells along the coast revealed no increase in chloride concentration from 1960 to 1961, and hence no sea-water intrusion into the basin.

Santa Ynez River Valley

In this report the Santa Ynez River valley has been divided into three subdivisions: The Lompoc plain, the alluvial deposits between San Lucas Bridge and Robinson Bridge, and the Santa Ynez upland. In each of these subdivisions the fluctuations of water levels are distinct to some degree.

The well locations in the Santa Ynez River valley are given on two illustrations: Figure 5 shows the Lompoc plain and a part of the alluvial deposits adjacent to the river upstream from Robinson Bridge, and figure 6 shows the remainder of the alluvial deposits upstream to San Lucas Bridge and the Santa Ynez upland to the north.

Lompoc Plain

Water levels beneath the Lompoc plain declined from the spring of 1960 to the spring of 1961. Water levels in the recharge area at the eastern end and at the southern edge of the plain declined an average of about 4 feet. In the area of confined water the water-level decline averaged about 2 feet.

The hydrographs of wells 7/35-26J3 and 26J4 (fig. 1) show water-level fluctuations in the area of confined water, and those of wells 7/34-27F4 and 27L1 (fig. 1) show fluctuations in the area of recharge.

Collection of water samples for the determination of chloride concentration as an indication of sea-water intrusion was continued during 1961. Analyses of these samples showed no increase in chloride; in fact, the chloride concentration in water from wells near the ocean has not changed significantly over the past 20 years of record.

Between San Lucas Bridge and Robinson Bridge

In the spring of 1961 water levels in wells near the river between San Lucas Bridge and Robinson Bridge ranged from 3 feet higher to 7 feet lower than in the spring of 1960 and averaged about 2 feet lower.

Santa Ynez Upland

Water levels in the observation wells on the Santa Ynez upland (fig. 6) declined an average of about 4 feet from the spring of 1960 to the spring of 1961. Net changes in water levels ranged from no change to 6 feet below the levels during the spring of 1960. The hydrograph of well 6/30-6A1 (fig. 1), considered to be representative for the upland, shows a water-level decline of about 6 feet from the spring of 1960 to the spring of 1961. Water levels in the spring of 1961 on the average were about 35 feet lower than the levels in the spring of 1942.

San Antonio Creek Valley

In general, water levels measured in wells in the San Antonio Creek valley (fig. 7) showed no change from the spring of 1960 to the spring of 1961.

Santa Maria Valley

The Santa Maria Valley area (fig. 8) is the largest agricultural district in Santa Barbara County. It consists of the broad alluvial plain adjacent to the Santa Maria River, the elevated terrace areas to the north and south of this plain, and the relatively small alluvial plain adjacent to the Sisquoc River.

In the confined-water area, which underlies the western half of the Santa Maria plain, water levels declined about 4 feet in 1961. The average water level in this area in the spring of 1961 was about 29 feet lower than the level in the spring of 1942. The hydrograph of well 10/35-7F1 (fig. 2) is typical of the wells along the seaward edge of the confined-water area and shows that water levels have declined about 16 feet since 1942.

The water levels in the remainder of the plain (recharge area) declined an average of about 6 feet from the spring of 1960 to the spring of 1961. Water levels in the recharge area in the spring of 1961 averaged 32 feet lower than in the spring of 1942. The hydrographs of wells 9/33-2A1 and 10/34-14E2 and 14E3 (fig. 2) are typical of the wells in the recharge area. Beneath the Sisquoc plain, upstream from Fugler Point, the decline in water level averaged about 15 feet for the year.

The chloride content of well waters at the western end of the Santa Maria Valley remained virtually the same as in previous years and averaged less than 100 parts per million. Water levels near the coast remained above sea level, and consequently there was no immediate threat of sea-water encroachment.

Cuyama Valley

The Cuyama Valley (fig. 9) is a broad semiarid valley in the extreme northeastern part of Santa Barbara County. Prior to 1946 there was no electric power in the valley, and this tended to restrict intensive irrigation development. Consequently, water levels in the principal agricultural area near the western end of the valley remained fairly static until large withdrawals began in 1946. Hydrographs for wells 10/25-30F1 and 30P1 (fig. 2) show the start of the decline in water level and its continuation in subsequent years because of the increased irrigation pumping and subnormal precipitation.

The subnormal precipitation in 1957, coupled with increased pumping, resulted in a continued lowering of the water table. The heavy rainfall during 1957-58 reversed this trend over much of the valley, but in areas of intense pumping the water levels continued to decline. For the period 1958-61 rainfall was again subnormal, resulting in a continued decline of water levels. From the spring of 1960 to the spring of 1961 water-level fluctuations ranged from no change in one well northeast of Cuyama to a decline of about 18 feet in a well near Ventucopa; the average decline in water level from the spring of 1960 to the spring of 1961 was about 5 feet. Since 1946, when electric power was brought into the Cuyama Valley, the net decline in water levels in observation wells has averaged about 36 feet.

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RECORDS OF WATER LEVELS IN 1961

The following records of water levels in observation wells in Santa Barbara County are arranged in numerical order within each of the ground-water basins. The well numbers indicate their locations according to the rectangular system of subdivision of public land.

For example, in the number 4/25-19F4, the part of the number preceding the bar indicates the township (T. 4 N.), the part between the bar and the hyphen shows the range (R. 25 W.), the digits between the hyphen and the letter indicate the section (sec. 19), and the letter indicates the 40-acre subdivision of the section as shown in the accompanying diagram.

D	C	B	A
E	F	G	H
19			
M	L	K	J
N	P	Q	R

Within each 40-acre tract the wells are numbered serially, as indicated by the final digit of the number. Thus, well 4/25-19F4 is the fourth well to be listed in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 4 N., R. 25 W.

All water-level measurements in the following records are expressed in feet below land-surface datum, which is a fixed plane of reference for each well and approximates the average land surface at the well.

Water levels near month end, 1961: The actual dates of U. S. Geological Survey water-level measurements ^{1/} in the several valleys in 1961 are listed below.

Month	Carpinteria	Goleta	Santa Ynez	San Antonio	Santa Maria	Cuyama
Jan.	27	27	23, 24	25	25	24
Feb.	27	27	23, 24	20	20	21
Mar.	31	31	30	29	29	30
Apr.	28	27	25, 26	26	26	25
May	29	29	26	25	25	24
June	29	29	27, 28	28	27, 28	27
July	27	27	25, 26	26	26	25
Aug.	22	23	25	24	23, 24	23
Sept.	21	25	26, 28	27	27	26
Oct.	30	22	23, 24, 25	25	24	24
Nov.	27	22	24	22	21	21
Dec.	22	22, 26, 29	27, 28	28	27, 28	27

^{1/} Water-level measurements by the Santa Maria Valley Water Conservation District are made on the first of the month (Jan., Apr., July, and Oct.).

Table 1.--Records of water levels in 1961

All water-level measurements in the following records are expressed in feet below land-surface datum, which is a fixed plane of reference for each well and approximates the average land surface at the well.

Depth: Depths of wells given in whole feet were reported by owners, drillers, or others; depths given in feet and tenths were measured below land surface by the Geological Survey.

Use: Dm domestic, Ir irrigation, Ps public supply, S stock, Ob observation, Id industrial, Un unused.

Altitude: Altitudes given in whole feet were interpolated from U. S. Geological Survey topographic maps having 10-, 20-, or 50-foot contour intervals. Altitudes given to the nearest tenth of a foot were determined by spirit leveling.

Footnotes:

- a Pumping.
- b Pumped recently.
- c Nearby well being pumped.
- d Nearby well pumped recently.
- e Estimated.
- f Dry.
- g Measured by Santa Maria Valley Water Conservation District.
- h Tape measurement.
- j Recharging.
- k Record from water-level recorder.
- m Electric sounder measurement.
- n Reported.

Table 1.--Continued

Water levels near month end, 1961

CARPINTERIA BASIN

Well :	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	:
no :	:	:	:	:	:	:	:	:	:	:	:	:	:
<u>T. 4 N., R. 25 W.</u>													
19F4	99.20	98.40	99.48	99.59	103.16	102.56	102.29	102.60	106.04	108.76	106.59	107.37	
J5	64.88	63.89	c68.10	-	c73.90	c75.53	c76.21	c78.59	e78.8	80.85	77.64	74.47	
20L4	121.75	124.30	;26.51	133.46	136.41	136.91	138.48	141.89	146.37	c150.75	136.72	134.03	
21N3	63.43	61.09	62.21	69.01	72.55	72.73	73.16	b76.82	71.93	71.94	71.81	74.45	
R1	112.86	110.60	111.88	112.35	113.15	113.48	114.00	115.29	114.59	114.82	115.05	116.32	
22R1	96.32	c98.61	c100.38	c109.89	c110.41	c111.17	c111.56	c111.83	d114.32	115.14	112.81	109.48	
25L1	34.13	27.84	(j)	c49.21	60.29	(j)	(j)	(j)	75.67	76.97	79.44	77.71	
26A1	284.04	282.96	284.00	293.73	297.80	297.59	m298.6	299.49	-	309.21	308.00	303.40	
C2	292.68	291.50	292.68	303.81	307.89	307.47	m307.9	308.79	310.53	311.78	311.06	306.48	
27Q2	148.67	c147.34	(c, j)	-	-	(c, j)	(c, j)	(c, j)	113.82	c130.52	126.16	133.47	
R2	158.63	156.55	157.37	162.94	165.68	166.09	166.43	167.29	173.47	(a)	174.37	172.32	
28J1	-	(a)	(a)	(a)	119.98	(a)	(a)	(a)	-	(a)	126.88	123.33	
M1	73.59	73.34	74.39	-	84.84	87.19	87.47	88.79	89.47	92.36	88.36	84.73	
29D1	30.43	28.71	29.49	32.91	37.67	38.18	38.45	38.99	b41.93	43.42	40.31	36.29	
L1	19.40	19.51	20.59	25.62	29.59	31.11	31.09	31.43	-	32.92	30.77	26.12	
R1	50.15	57.85	58.97	59.57	66.34	68.98	-	-	73.90	62.38	59.11	54.23	
30D1	-	-	-	14.90	17.54	18.11	17.45	17.96	19.23	19.60	18.84	16.39	
35A3	100.11	98.85	97.16	-	100.70	101.53	102.01	102.30	c110.39	108.49	107.59	105.44	
M5	-	-	-	197.23	198.79	-	-	-	-	-	-	179.63	
<u>T. 4 N., R. 26 W.</u>													
23A2	49.36	48.53	49.61	52.69	53.02	53.21	53.27	53.61	-	-	53.14	52.34	

Table 1.--Continued

Summary of data on observation wells

CARPINTERIA BASIN

Well : no. :	Owner or user	Depth : :(feet):	Use :	Altitude: : (feet) :	Year : : first :	Years : : of :	Highest water level: : Date :	Lowest water level: : Date :	Water : : level :	Water : : level :
:	:	:	:	:	:measured:	:record:	Mo-Yr	Mo-Yr	:	:
<u>T. 4 N., R. 25 W.</u>										
19F4	M. F. Lewis	250	Un	106	1941	21	4-58	71.38	3-50	123.40
J5	Lyman and Young	100	Un	55	1941	21	4-52	39.41	9-51	92.95
20L4	Carp. County Wtr. Dist.	264	Un	111	1949	13	3-55	95.90	9-51	153.17
21N3	E. Bonebakker	305	Ir	59	1941	10	6-41	29.62	11-54	90.70
R1	Ben Moore	468	Un	127	1941	21	6-45	64.47	11-51	126.08
22R1	A. E. Pruner	130	Un	211	1941	12	4-44	11.26	10-61	115.14
25L1	Solari and Schweizer	124	Un	227	1941	12	4-57	6.25	12-49	82.54
26A1	Moses Mesa Assoc. Co.	480	Un	420	1946	16	2-46	230.09	11-55	387.00
C2	Shepard Mesa Mut. Wtr. Co.	450	Un	432	1946	16	5-46	226.10	11-51	353.99
27Q2	A. F. Heimlich	198	Un	127	1941	21	4-45	92.86	9-51	175.42
27R2	W. H. Yule	421	Ir	132	1941	21	4-45	94.96	9-51	182.23
28J1	W. C. and C. A. Catlin	175	Ir	89	1919	26	6-19	23.00	10-60	138.20
M1	Mrs. A. Baylor	96	Un	57	1941	21	4-45	19.84	8-51	Dry
29D1	H. W. Sturmer	147	Dm	17	1928	24	4-42	1.48	9-51	57.28
L1	A. P. Salzgeber	110	Un	18	1950	12	5-58	7.43	9-51	51.24
29R1	Carp. Union High School	176	Un	32	1941	21	4-42	8.67	8-55	68.85
30D1	Sandyland Beach Club	210	Un	7.45	1938	22	5-38	Flowing	11-51	48.73
35A3	E. H. Bates	145.8	Un	147	1941	9	3-45	28.34	10-61	108.49
M5	Jack Rose	542	Dm, Ir	215	1949	9	5-49	164.90	5-61	198.79
<u>T. 4 N., R. 26 W.</u>										
23A2	Frank Wymond	330	Un	63	1941	16	4-50	45.44	4-51	85.00

Table 1.--Continued

Water levels near month end, 1961

GOLETA BASIN

Well:	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	:
no.:	:	:	:	:	:	:	:	:	:	:	:	:	:
<u>T. 4 N., R. 27 W.</u>													
6Q9	251.33	249.36	250.21	249.95	249.68	249.80	m250.0	250.24	227.20	226.88	225.92	225.95	
7N1	93.69	93.34	94.75	95.30	95.35	95.25	95.20	95.41	94.50	94.49	94.00	90.80	
8E2	131.79	131.91	132.19	132.51	133.19	133.61	134.17	134.26	136.70	138.37	129.87	128.58	
18R2	-	-	33.61	35.11	35.29	34.71	35.21	-	35.04	35.05	35.05	34.85	
21B1	66.64	66.89	67.33	69.65	69.97	70.14	70.41	70.96	72.66	73.08	66.83	69.75	
<u>T. 4 N., R. 28 W.</u>													
2N2	56.40	56.79	58.15	61.58	64.30	65.53	66.45	66.91	67.82	68.39	69.17	69.55	
3E2	14.59	14.19	14.87	c20.08	c21.69	c21.91	c21.76	-	-	15.74	16.50	16.23	
J3	38.11	38.04	38.69	40.94	40.71	40.59	40.41	40.88	42.97	43.13	42.71	39.88	
M3	110.29	109.87	110.81	108.68	108.92	109.08	109.81	110.19	-	109.50	109.71	109.83	
Q2	131.82	c132.99	c133.96	c135.70	c137.29	c137.59	c138.40	c139.28	137.39	c134.89	134.23	Destroyed	
4F3	44.06	43.86	44.41	43.49	43.50	43.39	43.10	43.33	43.15	43.21	43.57	43.20	
Q2	81.59	81.36	82.01	82.88	82.41	82.29	81.83	-	84.73	-	85.56	83.82	
5N3	26.22	27.57	28.20	28.71	29.07	28.64	28.46	-	28.54	29.32	29.42	28.77	
R4	-	53.51	54.13	54.63	54.04	53.91	53.71	54.09	54.12	54.10	53.65	53.13	
8N3	34.98	34.92	35.41	35.61	35.91	36.41	36.16	36.40	36.83	36.93	37.21	36.55	
9A3	57.36	57.18	57.63	58.50	58.73	59.21	59.79	60.08	60.95	61.45	61.97	60.77	
E1	61.59	61.19	61.81	62.87	62.77	62.51	62.42	62.69	64.84	63.86	63.18	61.93	
10F1	73.25	72.76	72.94	75.02	73.73	73.99	-	74.33	-	76.45	76.62	76.78	
11K4	97.58	97.46	97.32	97.31	97.44	97.56	97.65	97.79	97.20	97.00	97.00	96.70	
12B1	-	115.69	116.23	117.01	-	115.79	116.12	116.31	118.53	123.10	112.34	110.10	

Table 1.--Continued

Summary of data on observation wells

GOLETA BASIN

Well : no. :	Owner or user :	Depth : (feet):	Use :	Altitude: (feet) :	Year : first :	Years : of :	Highest water level: Date :	Lowest water level: Date :	Water : level :	Water : level :
:	:	:	:	:	:measured:	record:	Mo-Yr :	Mo-Yr :	:	:
<u>T. 4 N., R. 27. W.</u>										
6Q9	D. J. Davis	Unknown	Un	320	1954	8	11-61	1-61	225.92	251.33
7N1	La Cumbre Estates Corp	Unknown	Un	185	1957	5	12-61	10-57	90.80	129.79
8E2	Hugh Lindsey	Unknown	Ir	240	1961	1	12-61	10-61	128.58	138.37
18R2	Hillside House Fndn.	215	Un	110	1956	6	3-61	3-56	33.61	47.98
21B1	City of Santa Barbara	454	Un	68	1931	14	2-48	10-51	37.04	99.58
<u>T. 4 N., R. 28 W.</u>										
2N2	Santa Barbara County	100	Un	177.65	1943	19	4-54	12-61	12.94	69.55
3E2	Peter Cavaletto	75	Un	116.73	1941	21	4-41	10-48	8.57	45.17
J3	Hollister Estate	194	Un	137	1955	7	1-56	10-61	35.09	43.13
M3	L. W. Fowler	171	Un	118.40	1947	15	2-59	9-49	105.50	145.24
Q2	A. J. Haverland	360	Un	120.56	1943	19	1-48	9-51	84.69	154.64
4F3	Cavaletto and Johnston	Unknown	Un	155	1948	6	7-61	8-55	43.10	80.59
Q2	R. S. Rowe	325	Un	88.45	1941	21	4-45	6-50	61.24	117.92
5N3	Sellar Bullard	278	Un	83.40	1941	9	1-61	9-41	26.22	60.08
R4	F. J. Ewing	154	Ir	57.15	1937	11	6-37	9-54	40.00	78.70
8N3	Shrode-Nelson Produce	Unknown	Un	28	1955	7	2-61	4-55	34.92	51.00
9A3	L. M. Cavaletto	125	Un	84.10	1941	21	3-43	9-54	38.60	71.51
E1	A. T. Spaulding	310	Dm	43.58	1941	20	6-41	10-54	27.64	78.66
10F1	J. S. Edwards	459	Un	79.90	1932	25	4-43	7-56	56.44	103.27
11K4	Calif. Highway Dept.	297	Un	67	1947	15	3-47	8-54	67.72	119.95
12B1	St. Vincent's School	189	Un	203	1941	9	1-42	11-55	75.41	139.34

Table 1.--Continued

Water levels near month end, 1961

GOLETA BASIN--(Continued)

Well:	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
:	:	:	:	:	:	:	:	:	:	:	:	:
T. 4 N., R. 28 W.--(Continued)												
12P5	154.09	152.66	154.31	152.22	151.63	151.49	151.41	151.66	149.58	148.85	148.35	-
14C1	55.45	54.81	54.97	55.00	55.02	55.07	55.06	55.32	55.52	55.21	55.17	54.53
16C3	55.99	55.51	-	-	-	-	-	-	-	-	-	Destroyed
J2	57.06	62.08	(a)	(a)	68.95	(a)	85.4	(a)	65.67	-	63.60	60.75
17R1	11.07	10.47	11.03	-	12.81	12.77	12.88	13.06	-	13.14	-	11.32
R2	22.65	22.62	23.50	-	27.94	26.87	26.95	27.04	26.69	24.00	-	23.78
18G2	+1.83	+1.83	-12.59	-14.64	-2.85	-2.77	-6.93	-4.51	-8.34	-6.93	-4.15	+0.50
T. 4 N., R. 29 W.												
13K2	20.30	18.86	19.63	23.05	22.55	22.96	22.23	21.95	21.73	21.83	21.24	20.85
14A3	50.59	49.16	49.61	50.48	50.60	50.79	50.58	50.85	50.42	50.28	50.33	50.12

Table 1.--Continued

Summary of data on observation wells

GOLETA BASIN--(Continued)

Well : no. :	Owner or user :	Depth : :(feet):	Use :	Altitude: : (feet) :	Year : : first :	Years : : of :	Highest water level: : Date :	Lowest water level: : Date :	Water : : level :	Water : : level :
:	:	:	:	:	:measured:	:record:	Mo-Yr	:	Mo-Yr	level :
<u>T. 4 N., R. 28 W.--(Continued)</u>										
12P5	La Cumbre Mut. Wtr. Co.	Unknown	Un	100	1956	4	11-61	148.35	8-59	165.94
14C1	do	524	Un	48	1944	8	12-61	54.53	4-56	83.10
16C3	J. M. Pagliotti	415	Ir	25	1955	5	2-61	55.51	4-55	63.03
J2	J. Ciampi & Sons	458	Ir	26	1946	9	5-46	39.45	11-54	96.49
17R1	USGS, Pac. Light. Gas Sup.	158	Ob	4.91	1955	7	7-59	h+1.44	12-59	h19.47
R2	USGS, Pac. Light. Gas Sup.	155	Ob	7.87	1955	7	3-59	k22.11	8-55	k39.83
18G2	T. B. Bishop Co.	395	Un	7	1941	21	4-59	+1.83	8-45	45.99
<u>T. 4 N., R. 29 W.</u>										
13K2	T. B. Bishop Co.	378	Un	24	1941	19	6-59	20.37	9-50	55.59
14A3	State of California	160	Un	51	1941	21	2-61	49.16	7-51	87.46

Table 1.--Continued

Water levels near month end, 1961

SANTA YNEZ RIVER VALLEY

Well :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
no. :	:	:	:	:	:	:	:	:	:	:	:	:
<u>T. 6 N., R. 30 W.</u>												
3A1	123.79	123.65	126.99	(a)	(a)	(a)	(a)	(a)	133.15	133.15	132.28	130.35
6A1	98.39	98.69	112.59	117.79	115.28	115.43	116.34	117.26	-	113.81	109.80	105.34
9N1	(a)	-	-	-	-	38.67	38.77	38.84	39.04	38.83	38.77	39.80
15A1	13.44	13.46	13.50	13.55	13.60	13.63	13.68	13.81	13.85	13.88	16.88	13.94
21B2	18.20	13.82	-	14.67	16.03	17.54	28.16	(a)	22.20	20.85	20.83	18.70
29D3	k14.73	k14.17	k13.87	k14.17	k14.40	k16.19	k17.41	k18.45	k19.42	k19.93	k19.80	k18.61
E1	k21.52	k21.09	k20.56	k20.45	h20.11	h20.18	k21.19	k21.08	k21.44	h21.92	h22.49	k22.84
<u>T. 6 N., R. 31 W.</u>												
2K1	46.60	45.99	c53.70	c55.22	c55.22	c55.58	c57.29	c58.17	c56.26	50.35	48.86	48.27
13D1	120.08	120.36	122.79	(a)	121.92	a124.00	(a)	(a)	128.94	132.10	121.47	120.67
15A5	16.54	16.46	(a)	20.40	(a)	(a)	23.38	-	19.83	-	-	19.18
16N2	19.09	19.69	19.89	17.55	26.40	(a)	(a)	(a)	31.00	31.11	35.92	27.49
17F1	(a)	(a)	(a)	33.86	34.31	(a)	c37.96	-	(f)	(f)	34.64	36.73
<u>T. 6 N., R. 32 W.</u>												
2Q1	b56.80	(a)	(a)	b60.08	b60.39	b60.74	(a)	(a)	b60.31	60.57	60.70	60.34
6K1	22.44	(a)	25.09	(a)	(a)	(a)	(a)	(a)	23.02	23.09	23.13	22.79
9A2	35.72	35.61	36.75	(a)	37.19	(a)	(a)	(a)	40.30	40.11	38.99	36.97
11G3	k9.39	h9.08	-	-	-	k12.35	k14.16	k15.64	k16.21	h15.52	k14.64	k12.70
N1	-	31.91	(a)	(a)	b33.29	(a)	(a)	(a)	(a)	a40.55	40.28	40.55
16P3	49.92	(a)	47.37	b53.34	a57.73	(a)	(a)	(a)	52.61	c55.07	53.66	c50.53
18H1	38.68	(a)	(a)	(a)	a46.76	(a)	(a)	(a)	42.79	42.10	(a)	38.59

Table 1.--Continued

Summary of data on observation wells

SANTA YNEZ RIVER VALLEY

Well :		:Depth :	Use :	Altitude:	Year :	Years:	Highest water level:	Lowest water level:	
no. :	Owner or user	:(feet):		:(feet) :	first :	of :	Date :	Water :	Date :
:		:	:	:	:measured:	record:	Mo-Yr :	level :	Mo-Yr :
:		:	:	:	:	:	:	:	:
<u>T. 6 N., R. 30 W.</u>									
3A1	L. Hourihan	407	Dm, Ir	720	1954	8	5-58	103.63	6-57
6A1	Sam Torrence	262	Ir	665.29	1942	20	4-43	42.02	10-60
9N1	San Lucas Ranch	160	S	660.01	1941	21	7-60	24.06	1-56
15A1	Rex Clark	35+	S	628	1942	9	8-58	8.27	5-57
21B2	Bryant Myers	70	Ir	498.75	1952	10	10-57	11.01	7-61
29D3	USGS, Rancho Juan y Lolita	40	Ob	457.65	1954	8	3-60	k6.88	9-57
34 El	Rancho Juan y Lolita	52	Un	465.02	1933	29	3-41	h7.90	5-51
<u>T. 6 N., R. 34 W.</u>									
2K1	Sam de la Cuesta	75	Un	627	1942	16	1-42	23.02	9-57
13D1	S. Michaelis	170	Dm	608	1941	21	3-42	102.58	10-61
15A5	Louis Janin	160	Ir	652.94	1950	12	3-52	6.96	9-57
16N2	H. G. Petersen	47	Un	366.29	1941	15	5-41	5.93	11-61
17F1	John R. Orton	43	Dm	362.90	1931	32	4-41	14.80	12-61
<u>T. 6 N., R. 32 W.</u>									
2Q1	Wallace Dine	108	Dm	359.46	1949	13	4-52	56.20	11-61
6K1	Manuel P. Domingos	74	Dm, S	383.55	1932	24	7-32	10.50	3-61
9A2	Owen E. Hollister	72	Ir	308.03	1945	12	1-52	29.23	9-61
11G3	USGS, W. H. Mercer	28	Ob	301.06	1954	8	4-58	k4.08	9-61
N1	Doty And Mercer	50	Dm	332.74	1932	15	4-52	24.77	12-61
16P3	Channing Peake	70	Ir	293.18	1941	21	2-43	41.82	11-61
18H1	T. J. Donovan	50	Dm, S	267.09	1932	24	10-41	25.80	11-51

Table 1.--Continued

Water levels near month end, 1961

SANTA YNEZ RIVER VALLEY--(Continued)

Well : no. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
<u>T. 6 N., R. 33 W.</u>												
8J1	46.31	46.13	45.07	45.94	46.11	46.88	47.12	49.82	51.15	52.84	51.38	50.15
9P1	43.72	43.40	45.63	45.86	c52.88	c54.69	c55.99	c57.39	55.76	-	-	52.44
11M1	13.16	(a)	(a)	(a)	am20.0	(a)	(a)	(a)	18.13	17.32	16.71	15.30
<u>T. 6 N., R. 34 W.</u>												
1P1	40.00	39.96	(a)	c48.77	(a)	(a)	(a)	(a)	46.86	(a)	-	43.57
4F3	52.37	52.35	c58.56	56.37	57.90	c60.00	c61.29	c58.74	c59.28	59.14	59.18	c56.98
6C2	64.35	63.64	71.00	74.55	(a)	(a)	(a)	77.05	72.29	71.03	70.16	66.35
<u>T. 7 N., R. 30 W.</u>												
33M2	179.05	179.11	181.94	191.45	188.83	189.68	190.11	190.39	195.35	-	190.54	186.30
<u>T. 7 N., R. 31 W.</u>												
23P1	57.96	57.79	(a)	(a)	(a)	(a)	79.83	(a)	(a)	86.32	85.66	(a)
25L1	(a)	(a)	-	(a)	am148.9	(a)	(a)	(a)	-	-	-	150.23
36L2	(a)	(a)	83.67	b92.91	(a)	(a)	(a)	(a)	b105.89	105.26	98.83	93.21
<u>T. 7 N., R. 33 W.</u>												
30C1	159.59	159.39	159.65	c159.68	c160.40	c160.87	c161.58	c161.79	159.10	160.16	c160.12	160.10
<u>T. 7 N., R. 34 W.</u>												
9H3	10.97	11.17	11.40	11.96	12.23	Destroyed	-	-	-	-	-	-
H5	236.39	k236.99	k236.73	m237.9	m239.6	(a)	(a)	(a)	g275.0	-	237.90	237.49
12E1	306.18	306.46	306.50	305.88	306.01	m305.9	m306.2	306.01	307.14	-	307.22	-
14F1	c202.30	c208.03	-	-	-	-	Discontinue	-	-	-	-	-
15D1	166.52	(a)	b111.95	(b)	(a)	(a)	(a)	(a)	(a)	-	-	(a)

Table 1.--Continued

Summary of data on observation wells

SANTA YNEZ RIVER VALLEY--(Continued)

Well : no. :	Owner or user	Depth : :(feet):	Use :	Altitude: : (feet) :	Year : : first :	Years: : of :	Highest water level: Date : : Mo-Yr :	Lowest water level: Date : : Mo-Yr :	Water : level :	Water : level :
<u>T. 6 N., R. 33 W.</u>										
8J1	Hollister Estate	62	Un	200.57	1941	20	4-58		37.38	10-61 52.84
9P1	do	83	Un	203.03	1932	30	4-41		21.80	9-61 55.76
11M1	William Rennie	65	Ir	203.82	1947	14	2-50		4.29	9-61 18.13
<u>T. 6 N., R. 34 W.</u>										
1P1	Hollister Estate	164	Ir	150.37	1949	13	4-58		36.14	9-61 46.86
14F3	City of Lompoc	81	Un	95	1950	12	4-58		42.95	11-61 59.18
6C2	Bank of America	185	Dm, S.	99.80	1930	29	2-43		47.88	8-61 77.05
<u>T. 7 N., R. 30 W.</u>										
33M2	J. B. Kelley	318	Un	746.35	1953	9	3-54		160.21	10-60 191.63
<u>T. 7 N., R. 31 W.</u>										
23P1	F. L. Mattei	141	Dm, Ir	821.86	1942	20	8-42		8.09	10-61 86.32
25L1	Richter and Lee	300	Dm	806	1942	20	4-44		55.83	12-61 150.23
36L2	D. B. Kilbourne	230	Dm, Ir	720.62	1942	20	4-43		16.54	10-61 105.26
<u>T. 7 N., R. 33 W.</u>										
30C1	John Valla	183	Un	235.24	1941	21	2-46		150.41	7-59 163.61
<u>T. 7 N., R. 34 W.</u>										
9H3	USGS, Union Oil Co.	103	Ob	275	1948	14	10-48		9.32	8-56 12.81
H5	Vandenberg Utility Co.	960	Ps	300	1961	1	1-61		236.39	11-61 237.90
12E1	USGS, Union Oil Co.	385	Ob	385.83	1949	13	6-49		h301.70	11-61 h307.22
14F1	Signature Hlmes Inc.	250	Un	268.32	1947	15	10-47		194.94	8-58 203.00
15D1	Vandenberg Utility Co.	790	Ps	190	1960	2	7-60		111.22	10-60 118.24

Table 1.--Continued

Water levels near month end, 1961

SANTA YNEZ RIVER VALLEY--(Continued)

Well : no. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
T. 7 N., R. 34 W.--(Continued)												
21E1	k26.79	k26.71	k27.63	k29.22	k30.02	k30.66	k31.43	k31.92	k32.22	k32.28	k31.97	k30.52
22J1	34.24	34.16	37.31	437.5	-	-	-	-	-	Discontinue	-	-
J6	-	-	-	-	-	-	-	Resumed	34.18	33.96	33.76	33.21
Q4	15.67	16.09	15.92	16.17	16.26	16.69	-	16.99	17.37	17.70	18.13	18.25
24E2	113.09	113.45	111.08	112.37	112.89	113.91	114.59	115.11	112.75	112.23	111.96	112.01
N1	62.58	(a)	(a)	(a)	(a)	(a)	(a)	(a)	66.22	65.56	64.46	(a)
26H3	h45.75	h46.01	h48.43	k49.62	k49.51	k49.54	k49.62	k49.76	k49.46	k49.08	k48.58	k47.96
27A5	15.10	15.50	16.13	16.05	16.21	(f)	(f)	(f)	-	-	(f)	(f)
F4	41.22	42.60	(a)	(a)	(a)	47.97	(a)	(a)	48.40	48.14	50.49	45.87
28H2	37.69	39.54	c42.81	c42.95	c43.22	c44.02	c44.74	c45.40	-	-	-	Destroyed
R3	39.01	39.33	45.51	44.74	45.11	45.69	45.87	46.11	50.03	47.85	45.30	43.47
29E4	a45.10	(a)	46.15	(a)	(a)	(a)	(a)	44.58	43.00	41.55	36.27	34.13
E5	(f)	(f)	(f)	(f)	-	(f)	(f)	(f)	(f)	(f)	(f)	(f)
30L3	24.80	c25.59	c25.83	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)
L4	23.64	(a)	(a)	(a)	(a)	(a)	(a)	b41.69	(a)	34.42	33.43	29.50
31C2	31.89	34.86	(a)	(a)	a86.15	(a)	(a)	38.96	38.98	35.07	33.50	32.43
C3	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)	(f)
32P5	33.65	34.57	34.09	29.62	31.00	30.45	31.11	34.60	34.19	33.38	-	-
33E1	34.11	34.89	35.33	42.95	42.70	43.13	43.88	42.48	41.13	40.28	38.58	37.52
35F2	31.31	31.58	32.72	33.30	33.64	34.23	34.89	35.31	36.40	35.53	35.62	34.15
F6	-	-	-	-	-	Discontinue	-	-	-	-	-	-
F16	53.51	53.86	55.55	56.35	(a)	(a)	(a)	(a)	59.54	59.44	58.84	56.96
P1	-	-	-	-	-	Discontinue	-	-	-	-	-	-

Table 1.--Continued

Summary of data on observation wells

SANTA YNEZ RIVER VALLEY--(Continued)

Well : no. :	Owner or user	:Depth : :(feet):	Use :	Altitude: : (feet) :	Year : first :	Years : of :	Highest water level: Date :	Lowest water level: Date :	Water : level :	Water : level :
:	:	:	:	:	:measured:	:record:	Mo-Yr :	Mo-Yr :	:	:
T. 7 N., R. 34 W.--(Continued)										
21E1	USGS, Dept. of Justice	145	Ob	82	1948	16	4-49	10-61	h17.97	k32.30
22J1	Santa Barbara County	73.3	Un	98.92	1941	6	3-41	3-61	21.04	37.31
J6	Bodger Seed Co.	135	Ir	90	1949	10	11-49	9-61	27.77	34.18
Q4	USGS, A. Scolari	24	Ob	82.72	1947	15	4-57	8-50	12.26	(f)
24E2	J. F. de Costa	191	Un	178.25	1938	11	11-38	6-59	103.17	117.60
N1	State of California	183	Ir	130.4	1930	16	5-30	9-61	51.2	66.22
26H3	R. C. Lilley	123	Un	112.92	1950	12	3-50	9-61	h40.13	k50.01
27A5	USGS, L. H. Schuyler	19	Ob	79.19	1955	7	4-58	6-61	6.56	(f)
F4	J. Maxwell Wilson	178	Ir	96.79	1952	10	2-53	11-61	31.91	50.49
28H2	Tom M. Parks	78	Un	89.55	1930	30	3-43	5-51	21.74	43.14
R3	A. Zvolanek	180	Un	85	1955	6	4-58	9-61	30.30	50.03
29E4	W. H. Sanor	176	Ir	67.71	1945	17	4-59	3-61	18.36	46.15
E5	USGS, W. H. Sanor	27	Ob	67.74	1945	17	10-45	6-51	18.21	(f)
30L3	USGS, Union Sugar Co.	27	Ob	58.79	1945	17	12-46	5-51	15.83	(f)
L4	Union Sugar Co.	190	Ir	59	1951	11	4-45	7-60	15.23	40.37
31C2	Union Sugar Co.	Unknown	Ir	64.72	1941	16	4-41	9-48	8.56	46.38
C3	USGS, Union Sugar Co.	17.3	Ob	64.68	1947	15	4-53	12-51	12.24	21.97
32P5	USGS, J. Bodger & Sons	37	Ob	77.60	1947	15	2-49	8-60	24.47	(f)
33E1	M. Balaam	138	Un	68.47	1949	13	12-50	7-61	22.49	43.88
35F2	Valla Bros	140	Un	100.33	1930	32	3-41	9-61	9.53	36.40
F6	USGS, M. Schuyler	55	Ob	119.46	1943	19	2-44	8-45	35.91	(f)
F16	M. Schuyler	173	Ir	119.50	1947	15	3-59	7-51	37.03	61.15
PI	W. P. & N. L. Robinson	51	Un	121.32	1931	29	3-41	3-48	29.32	51.90

Table 1.--Continued

Water levels near month end, 1961

SANTA YNEZ RIVER VALLEY--(Continued)

Well : no. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
T. 7 N., R. 35 W.												
20J1	13.76	11.44	8.28	e8.6	-	9.21	-	-	10.38	-	9.19	8.92
22J1	11.50	11.18	17.71	17.53	-	-	(a)	(a)	(a)	16.78	13.63	12.19
M1	7.18	6.96	(a)	(a)	(a)	-	-	-	-	8.54	-	-
23E2	14.86	(a)	(a)	(a)	-	(a)	(a)	19.33	(a)	17.48	16.56	15.52
E4	12.92	-	-	-	-	a15.29	-	12.96	-	13.17	21.05	20.53
J2	a38.18	18.69	(a)	(a)	b27.45	(a)	(a)	(a)	25.91	21.90	21.20	19.68
24J1	31.15	32.09	31.36	32.41	c32.96	c35.59	c35.81	c36.40	36.99	c37.08	37.05	35.97
K2	24.53	24.73	31.32	(a)	(a)	(a)	(a)	(a)	36.60	37.31	29.10	26.40
K4	b25.02	25.39	31.36	c40.92	c41.31	c42.69	(a)	c46.22	33.94	31.11	29.52	27.35
25F5	21.30	21.61	36.85	35.65	30.83	32.39	32.89	35.91	31.14	25.40	23.17	21.16
F6	13.58	13.99	11.95	12.26	13.68	14.02	15.11	14.30	15.25	15.70	15.39	15.63
26F1	13.05	13.97	(a)	(a)	11.63	12.61	(a)	21.91	18.39	15.29	13.76	12.14
J4	20.38	22.99	29.29	27.52	b31.57	32.75	33.09	c30.50	23.13	18.94	17.61	b16.17
27C3	8.63	8.36	-	-	-	13.35	-	-	11.70	10.98	9.79	8.35
35A3	15.22	(a)	16.39	19.87	20.80	21.39	22.11	19.44	18.12	20.62	17.18	11.37
A4	12.49	c10.55	8.52	12.73	14.06	14.41	14.49	15.34	15.78	15.95	15.65	9.62
36J3	k25.63	k26.68	k29.73	k32.54	k31.95	k31.82	-	-	-	-	-	-
J6	28.84	28.83	35.03	36.80	34.87	-	36.82	34.25	33.36	31.44	30.97	29.10
J7	26.05	26.17	28.70	(f)	(f)	(f)	(f)	(f)	29.95	29.13	28.73	27.69

Table 1.--Continued

Summary of data on observation wells

SANTA YNEZ RIVER VALLEY--(Continued)

Well : np. :	Owner or user :	Depth : :(feet):	Use :	Altitude: : (feet) :	Year : first :	Years : of :	Highest water level: Date :	Lowest water level: Water : level :	Date : Mo-Yr :	Water : level :
:	:	:	:	:	:measured:	:record:	:	:	:	:
T. 7 N., R. 35 W.										
20J1	Dept. of the Navy	108	Un	19.07	1930	31	3-58	3.55	7-30	31.27
22J1	Union Sugar Co.	185	Ir	31.76	1930	25	3-58	6.01	4-51	24.03
M1	Dept. of the Air Force	180	Ir	28.84	1947	14	3-52	2.87	7-50	18.51
23E2	Union Sugar Co.	212	Ir	36.11	1930	26	2-59	11.71	7-49	33.06
E4	USGS, Union Sugar Co.	28	Ob	36.90	1947	15	3-52	12.22	7-48	22.67
J2	Union Sugar Co.	158	Ir	43.58	1947	15	3-58	11.40	7-50	31.11
24J1	Tom M. Parks	171	Un	59.40	1941	18	5-41	18.26	11-61	37.05
K2	A. B. Henning	180	Ir	51	1941	14	5-41	14.59	10-61	37.31
K4	do	Unknown	Dm	51.11	1953	8	2-59	17.81	10-60	37.11
25F5	Union Sugar Co.	180	Ir	46.94	1944	13	1-53	10.13	3-61	36.85
F6	USGS, Union Sugar Co.	19	Ob	47.70	1945	17	5-46	6.09	11-51	15.90
26F1	Union Sugar Co.	186	Ir	36.84	1941	15	4-41	0.32	7-49	27.09
J4	Santa Barbara County	141	Ps	40.86	1947	15	4-58	5.76	7-51	33.63
27C3	County Nat'l Bank & Trust	158	Un	28.42	1932	16	4-41	0.64	6-39	24.14
35A3	Gus Aquistapace	100	Ir	45.68	1947	15	4-58	5.41	7-50	25.81
A4	USGS, Gus Aquistapace	23	Ob	45.88	1947	15	1-56	1.58	10-51	16.95
36J3	Ted Holden	102	Ob	58.76	1930	21	4-41	h4.56	4-55	k35.05
J6	do	102	Ir	58.50	1947	15	4-58	15.11	7-50	38.15
J7	USGS, Denholm Seed Co.	32	Ob	58.50	1947	15	12-57	19.00	7-50	31.32

Table 1.--Continued

Water levels near month end, 1961

SAN ANTONIO CREEK VALLEY

Well : no. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
<u>T. 8 N., R. 32 W.</u>												
30K2	11.57	10.30	10.63	11.46	16.26	20.43	c45.40	-	-	-	Destroyed	-
35Q1	(a)	138.78	139.01	137.52	137.38	-	b136.69	160.11	157.19	137.07	138.39	138.15
<u>T. 8 N., R. 33 W.</u>												
20Q1	28.86	31.82	32.56	32.73	31.33	c37.87	c38.00	c37.83	31.69	31.66	30.60	31.48
R1	(a)	29.66	a34.69	a35.13	29.23	(a)	(a)	(a)	(a)	-	-	-
<u>T. 8 N., R. 34 W.</u>												
23B1	c17.36	c17.33	c22.55	c23.89	20.09	20.62	c24.27	c20.82	c19.75	-	-	-

Table 1.--Continued

Summary of data on observation wells

SAN ANTONIO CREEK VALLEY

Well : no. :	Owner or user	Depth : (feet):	Use :	Altitude: (feet) :	Year : first :	Years : of :	Highest water level: Date :	Lowest water level: Date :	Water : level :	Water : level :
:	:	:	:	:	:measured:	:record:	Mo-Yr	Mo-Yr	:	:
<u>T. 8 N., R. 32 W.</u>										
30K2	John Parma	100	Un	558	1943	9	2-44		+1.16	-34.00
35Q1	Frank F. Barham	250	S	745	1943	6	12-43		118.46	168.38
<u>T. 8 N., R. 33 W.</u>										
20Q1	Virginia Barca Estate	351	Un	408	1943	19	2-44		4-27	38.15
R1	do	75	Dm	408	1943	19	1-47		21.20	36.32
<u>T. 8 N., R. 34 W.</u>										
23B1	Josephine Harris Estate	150	Un	315	1943	18	2-44		12.19	20.62

Table 1.--Continued

Water levels near month end, 1961

SANTA MARIA VALLEY

Well : no. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
<u>T. 9 N., R. 32 W.</u>												
7N1 g103.2	(a)	(a)	g114.7	(a)	(a)	aml47.1	(a)	(a)	bg126.8	(a)	(a)	(a)
17G1 60.70	(a)	(a)	(a)	b64.21	(a)	a71.03	(a)	68.60	(a)	(a)	(a)	(a)
22D1 -	-	Resumed	37.53	38.05	38.67	39.12	39.44	39.93	40.62	40.94	40.43	40.43
23K1 -	-	Resumed	c20.81	c23.78	-	am35.0	-	30.95	(a)	-	(a)	(a)
<u>T. 9 N., R. 33 W.</u>												
2A1 g83.6	85.00	85.31	85.73	90.52	92.68	aml47.3	103.73	104.65	105.01	105.72	106.34	106.34
<u>T. (N., R. 34 W.</u>												
3N1 185.08	183.84	183.79	184.12	184.34	c185.02	c186.90	184.93	184.88	184.88	184.84	187.59	187.59
6K2 89.51	c90.02	c90.43	c91.26	89.89	c91.69	c92.30	-	-	-	-	-	-
8H1 c153.65	144.18	144.46	c148.89	c147.15	(a)	(a)	c147.95	c150.73	c150.16	e148.8	(a)	(a)
<u>T. 10 N., R. 33 W.</u>												
7P1 124.13	132.69	(a)	(a)	(a)	(a)	aml66.3	(a)	(a)	144.15	130.27	128.94	128.94
R1 h121.96	h123.23	h124.96	h127.13	h127.81	h128.75	h129.70	h129.97	k130.11	k130.31	k128.98	k128.41	k128.41
18G1 g122.7	-	-	g125.7	-	-	bg128.3	-	-	g130.8	-	-	-
19B1 m157.5	(a)	(a)	g162.9	(a)	-	m180.9	(a)	(a)	178.10	(a)	b182.62	b182.62
20H1 112.35	b122.30	(a)	(a)	121.12	(a)	aml78.1	(a)	(a)	132.09	-	134.51	134.51
L1 h149.51	k164.21	k164.70	k166.17	k169.55	k171.09	k158.56	k160.31	k161.54	k160.46	k159.45	k159.71	k159.71
21F5 h109.72	h110.14	h115.95	Discontinued	-	-	-	-	-	-	-	-	-
27G1 g94.6	-	-	g101.3	-	-	bg104.9	-	-	bg107.1	-	-	-
K2 97.30	(a)	(a)	(a)	(a)	(a)	-	-	aml39.9	(a)	-	127.70	127.70
28A1 98.03	96.50	(a)	g101.5	(a)	(a)	108.52	(a)	aem190	114.85	115.61	109.53	109.53
30G1 g192.3	-	-	g204.6	-	-	g207.0	-	-	bg210.5	-	-	-
H1 g180.9	-	-	g189.5	-	-	bg192.4	-	-	bg199.0	-	-	-
M1 g196.6	-	-	g207.6	-	-	g212.4	-	-	bg213.8	-	-	-
R1 g182.1	-	-	g188.1	-	-	bg190.6	-	-	g195.2	-	-	-
33H1 (a)	b248.45	(a)	(a)	(a)	(a)	c251.72	(a)	235.74	d243.89	242.23	240.87	240.87

Table 1.--Continued

Summary of data on observation wells

SANTA MARIA VALLEY

Well : no. :	Owner or user :	Depth : (feet) :	Use : :	Altitude : (feet) :	Year : first :	Years : of :	Highest water level : Date :	Lowest water level : Date :	Water : level :	Water : level :
:	:	:	:	:	measured:	record:	Mo-Yr :	Mo-Yr :	:	:
<u>T. 9 N., R. 32 W.</u>										
7N1	Valerio Tognazzini	204	Ir	422	1924	28	4-44	24.62	7-61	g118.8
17G1	J. A. Waugh	107	Dm	447	1941	21	4-43	11.22	10-60	86.59
22D1	L. Bognuda	Unknown	Un	495	1950	3	5-58	7.31	11-61	40.94
23K1	Rancho Sisquoc	75	Ir	530	1943	4	5-58	7.66	9-61	30.95
<u>T. 9 N., R. 33 W.</u>										
2A1	Francis J. Calderon	220	Ir	378.72	1930	29	6-41	23.62	12-61	106.34
<u>T. 9 N., R. 34 W.</u>										
3N1	City of Santa Maria	232	Un	258	1932	15	6-37	g142	12-61	187.59
6K2	Associated Oil Co.	139	Un	161	1942	12	3-42	59.22	8-57	91.39
8H1	Richfield Oil Corp.	200	Dm	222	1955	7	3-58	119.73	7-59	m156.2
<u>T. 10 N., R. 33 W.</u>										
7P1	P. T. Bonetti	365	Ir	260	1951	11	9-58	107.42	10-61	144.15
R1	Gilio DeBernardi	210	Un	270	1942	8	2-42	78.45	10-61	k130.43
18G1	La Brea Securities Co.	436	Ir	273	1939	23	7-43	g66.75	4-51	g132.10
19B1	Owen T. Rice	307	Ir	275	1927	34	9-43	73.31	7-61	m180.9
20H1	M. J. Santos	251	Ir	300	1929	19	8-38	56.88	12-61	134.51
L1	Francis J. Calderon	300	Un	294	1942	6	1-42	78.54	6-61	k171.09
21F5	Frank Donovan	262	Un	312	1952	5	11-58	80.14	3-61	h115.95
27G1	L. H. Adam	272	S, Ir	338	1923	30	7-38	g26.00	7-51	g119.50
K2	Newhall Land Co.	255	Ir	344	1941	9	6-58	46.55	12-61	127.70
28A1	Joe Soares	374	Ir	325	1929	33	7-38	g31.99	11-61	115.61
30G1	Lillian Cook	676	Ps	320	1951	11	1-53	g170.42	7-61	g207.0
H1	do	758	Ir	310	1951	11	4-52	g151.51	10-60	g199.59
M1	Hancock Oil Co.	500	Id	310	1951	11	1-53	g174.00	7-61	g212.4
R1	Sheehy Bros.	544	Ir	335	1951	11	1-53	g165.38	10-61	g195.2
33H1	Francis J. Calderon	290	Dm, S	402	1947	15	1-47	179.50	11-61	242.23

Table 1.--Continued

Water levels near month end, 1961

SANTA MARIA VALLEY--(Continued)

Well :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
no. :	:	:	:	:	:	:	:	:	:	:	:	:
<u>T. 10 N., R. 34W.</u>												
2R1	124.31	131.52	129.51	131.03	133.28	133.23	132.78	136.61	134.45	132.97	134.72	134.18
4R1	132.51	133.30	(a)	(a)	(a)	(a)	aml49.8	(a)	(a)	148.96	145.61	146.37
6N1	g103.2	107.43	(a)	g104.0	(a)	111.53	aml15.1	(a)	(a)	g108.5	-	-
9L2	g131.5	-	-	g132.7	-	-	g138.2	-	-	g141.4	-	-
14E2	c161.67	c161.65	c162.92	c163.30	c167.23	c168.00	c170.91	c177.50	c182.28	175.24	176.25	c181.40
20H1	120.28	119.58	120.09	121.51	122.11	126.33	127.56	128.58	129.60	129.50	129.23	127.00
22R1	g151.7	-	-	g152.8	-	-	g156.8	-	-	bg161.2	-	-
23H1	151.53	153.38	(a)	g159.8	(a)	(a)	aml94.1	(a)	164.30	165.18	162.66	162.64
24K2	g145.6	-	-	g151.6	-	-	g160.9	-	-	g159.5	-	-
K3	g139.1	-	-	g145.5	-	-	bg154.7	-	-	bg150.7	-	-
27L1	-	134.24	134.85	136.52	-	139.48	-	162.90	-	-	(a)	-
34E2	-	131.87	133.50	136.05	-	136.11	b146.25	aml89.3	(a)	(a)	e168.5	(a)
<u>T. 10 N., R. 35 W.</u>												
7F1	20.59	aem64/68	(a)	g23.4	(a)	25.02	bg37.4	b24.55	25.48	25.85	19.29	17.64
G3	29.74	30.35	c31.99	c36.20	c37.59	36.07	c41.16	34.44	37.07	c36.66	29.50	29.06
9F1	g47.5	(a)	(a)	g54.1	58.95	(a)	bg62.2	60.10	64.04	58.80	42.18	50.42
N1	g47.6	-	-	g55.5	-	-	bg60.9	-	-	bg63.3	-	-
12M1	g87.7	-	-	g90.9	-	-	g95.2	-	-	g99.6	-	-
21B1	g41.9	42.59	(a)	g49.7	am76.3	(a)	am78.0	54.42	(a)	52.64	44.83	46.45
24B1	g91.2	-	(a)	g97.6	aml02.8	(a)	bg108.8	(a)	(a)	103.03	99.46	96.13
<u>T. 10 N., R. 36 W.</u>												
2G1	-	-	-	k5.76	k6.04	h7.42	-	k6.46	k6.13	k5.57	k4.05	k3.88

Table 1.--Continued

Summary of data on observation wells

SANTA MARIA VALLEY--(Continued)

Well :		Depth :	Use :	Altitude:	Year :	Years :	Highest water level:	Lowest water level:		
no. :	Owner or user	:(feet):		:(feet) :	first :	of :	Date :	Water :	Date :	Water :
:		:	:	:	measured:	record:	Mo-Yr :	level :	Mo-Yr :	level :
<u>T. 10 N., R. 34 W.</u>										
2R1	Gracio Appalatequi	294	Ir	230	1929	27	6-43	69.16	12-57	142.50
4R1	Gerald Donovan	186	Ir	192	1930	19	3-45	72.89	10-61	148.96
6N1	Grisingher & Signorelli	190	Ir	152	1930	28	4-43	g48.40	6-61	111.53
9L2	Mrs. Annie E. Preisker	232	Un	189	1942	4	3-48	77.12	10-61	g141.4
14E2	City of Santa Maria	182	Un	225	1942	6	1-42	104.10	11-61	176.25
20H1	Leo Tognazzini	246	Ir	182	1930	20	3-45	66.57	8-56	148.50
22R1	George J. Wheat	252	Id	217	1931	26	3-45	93.19	1-58	157.70
23H1	Marion B. Rice	218	Ir	242	1929	27	4-43	g100.65	10-61	165.18
24K2	Union Oil Co.	760	Id	244	1946	11	6-46	g63.00	7-61	g160.9
K3	do	792	Id	245	1947	11	1-47	g71.00	3-48	g179.25
27L1	City of Santa Maria	1,124	Ps	238	1961	1	2-61	134.24	8-61	162.90
34E2	City of Santa Maria	1,426	Ps	225	1961	1	2-61	131.87	6-61	136.11
<u>T. 10 N., R. 35 W.</u>										
7F1	M. J. Ellis	249	Dm, Ir	48	1929	32	12-43	Flowing	10-61	25.85
G3	John Jenkins	286	Un	53	1942	20	2-44	3.24	9-61	37.07
9F1	Waller Flower Seed Co.	198	Ir	88	1930	28	5-42	13.61	9-61	64.04
N1	Agnes F. King	285	Ir	87	1930	25	4-45	g13.30	10-59	g59.45
12M1	E. and G. Le Roy	210	Ir	138	1924	29	1-24	23.43	12-61	g99.6
21B1	Thomas J. Brucker	310	Ir	94	1938	24	2-44	7.85	8-55	57.66
24B1	Union Sugar Co.	290	Ir	144	1934	25	2-44	42.55	9-55	109.10
<u>T. 10 N., R. 36 W.</u>										
2G1	Union Oil Co.	Unknown	Un	15	1961	1	12-61	h2.95	7-61	k7.42

Table 1.--Continued

Water levels near month end, 1961

SANTA MARIA VALLEY--(Continued)

Well : no. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
<u>T. 11 N., R. 34 W.</u>												
19Q1	291.69	(a)	(a)	(a)	293.09	(a)	295.10	291.93	289.90	268.75	(a)	276.28
30Q1	g96.8	-	-	g99.3	-	-	g102.0	-	-	bg106.5	-	-
34J2	108.20	109.32	(a)	(a)	(a)	110.23	110.77	b119.81	113.57	(a)	115.83	117.80
<u>T. 11 N., R. 35 W.</u>												
20E1	17.90	16.32	c17.61	g14.6	(a)	(a)	25.74	24.06	23.13	23.46	21.10	18.08
25H1	70.09	70.39	70.98	71.49	71.40	72.02	72.34	72.37	72.49	72.65	72.60	72.74
26M2	c77.05	67.76	c78.29	c79.96	c80.39	c86.60	c87.78	c87.68	c94.44	c86.60	82.22	c87.76
28M1	g39.6	-	-	g39.9	-	-	g39.0	-	-	g50.9	-	-
33G1	51.83	(a)	(a)	g56.8	(a)	60.62	61.79	(a)	57.24	56.78	53.96	54.06
35A1	g75.0	-	-	g76.3	-	-	g88.0	-	-	g85.3	-	-

Table 1.--Continued

Summary of data on observation wells

SANTA MARIA VALLEY--(Continued)

Well : no. :	Owner or user	:Depth : :(feet):	Use :	:Altitude: : (feet) :	Year : : first :	:Years : : of :	:Highest water level: : Date :	:Lowest water level: : Water :	: : Date :	: : Water :
:	:	:	:	:	:measured:	:record:	Mo-Yr	: level	: Mo-Yr	: level :
<u>T. 11 N., R. 34 W.</u>										
19Q1	Frank Silva	315	Dm	305	1947	15	1-47	223.77	7-61	295.10
30Q1	Mary Bolton	180	Ir	148	1930	27	5-41	34.59	7-61	g102.0
34J2	L. O. Fox	214	Ir	148	1955	7	11-58	73.04	12-61	117.80
<u>T. 11 N., R. 35 W.</u>										
20E1	Union Sugar Co.	525	Ir	49	1938	24	2-44	Flowing	7-56	g31.40
25H1	M. J. Mendoza	129	Un	135	1942	21	6-44	33.42	11-57	84.13
26M2	Sam Tognazzini	324	Un	106	1930	18	11-44	28.92	11-61	82.22
28M1	Union Sugar Co.	376	Ir	77	1934	25	12-43	11.09	7-57	g55.70
33G1	H. E. Pezzoni	141	Ir	91	1930	27	2-44	16.49	7-61	61.79
35A1	Elmer A. Runels	195	Ir	123	1925	26	2-25	24.50	7-61	g88.0

Table 1.--Continued

Water levels near month end, 1961

CUYAMA VALLEY

Well :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
no.:	:	:	:	:	:	:	:	:	:	:	:	:
<u>T. 7 N., R. 24 W.</u>												
13C2	a36.85	(a)	(a)	a63.34	a65.83	33.69	34.08	(a)	(a)	(a)	(a)	33.29
<u>T. 8 N., R. 24 W.</u>												
8L1	125.46	126.15	c137.96	c140.21	126.25	127.04	128.30	130.43	132.02	131.69	134.94	137.24
<u>T. 9 N., R. 24 W.</u>												
19Q1	72.97	72.20	74.03	74.40	71.58	70.12	69.97	71.86	72.41	72.76	72.50	72.60
33M1	171.04	171.94	172.34	172.61	173.11	174.22	174.83	175.40	176.14	176.64	177.07	177.82
<u>T. 9 N., R. 25 W.</u>												
2N1	166.89	167.67	168.43	168.81	169.36	172.17	173.33	157.65	159.13	159.40	158.70	-
13B1	105.24	107.90	(a)	(a)	103.55	(a)	103.29	(a)	106.63	(a)	-	107.11
<u>T. 9 N., R. 26 W.</u>												
1F2	(a)	297.00	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	-	(a)
4J1	-	294.40	295.11	295.33	295.81	295.94	-	-	294.98	-	-	-
<u>T. 10 N., R. 25 W.</u>												
8P1	91.50	91.48	-	-	92.11	92.37	(f)	(f)	(f)	-	-	(f)
24E1	242.87	256.58	243.98	244.23	244.41	245.83	246.79	247.54	248.74	257.23	250.35	263.50
28F1	(a)	(a)	(a)	(a)	(a)	-	(a)	(a)	Destroyed	-	-	-
30P1	c133.69	c140.22	c142.89	c144.36	c148.75	c152.88	154.71	152.25	151.67	149.16	139.95	143.40

Table 1.--Continued

Summary of data on observation wells

CUYAMA VALLEY

Well : no. : :	Owner or user	:Depth : :(feet): :	Use	:Altitude: : (feet) : :	Year : : first : :measured:	:Years : : of : :record:	:Highest water level: : Date : : Mo-Yr :	:Lowest water level: : Water : : level :	: Date : : Mo-Yr :	: Water : : level :
<u>T. 7 N., R. 24 W.</u>										
13C2	Ventura County	165	Dm	3,418	1950	12	4-58	18.86	5-51	47.23
<u>T. 8 N., R. 24 W.</u>										
8L1	Hickey Bros. Land Co.	290	Un	3,050	1950	12	6-58	93.10	2-58	153.09
<u>T. 9 N., R. 24 W.</u>										
19Q1	Sam Knittle	90	Un	2,784.19	1941	21	5-44	16.13	1-58	83.58
33M1	Walter C. Barnes	233	Un	3,049	1950	12	10-59	167.43	3-58	194.15
<u>T. 9 N., R. 25 W.</u>										
2N1	Julius Broden	254	Un	2,550	1953	9	3-53	139.14	7-61	173.33
13B1	William B. Barry	120	Dm	2,700	1952	10	4-58	100.91	12-60	123.35
<u>T. 9 N., R. 26 W.</u>										
1F2	M. L. Moore	322	Dm	2,600	1958	4	4-59	285.29	2-61	297.00
4J1	J. G. James	327	Un	2,575	1946	8	8-46	185.00	4-55	312.27
<u>T. 10 N., R. 25 W.</u>										
8P1	H. S. Russell	95	Un	2,393	1942	7	6-42	31.34	7-61	(f)
24E1	E. H. Mettler & Son	600	Un	2,368	1950	11	5-50	198.00	12-61	263.50
28F1	A. V. Cattle & Milling	292	Ir, S	2,340	1955	5	4-55	136.60	2-59	172.71
30P1	Kirschenmann & Presseler	400	Un	2,340	1955	7	1-57	109.55	7-61	154.71

Table 1.--Continued

Water levels near month end, 1961

CUYAMA VALLEY--(Continued)

T. 10 N., R. 26 W.

4R1	(a)	(a)	(a)	(a)	52.58	(a)	(a)	(a)	(a)	50.30	-	(a)
16Q1	49.96	50.14	51.16	52.88	53.00	57.40	59.38	59.84	59.25	58.20	56.76	53.55
22A1	28.66	29.77	32.89	35.38	35.51	35.44	37.76	36.81	35.81	34.53	33.37	32.50
27N1	(a)	140.78	141.41	(a)	142.64	141.43	(a)	141.75	141.77	142.33	142.22	142.19

T. 10 N., R. 27 W.

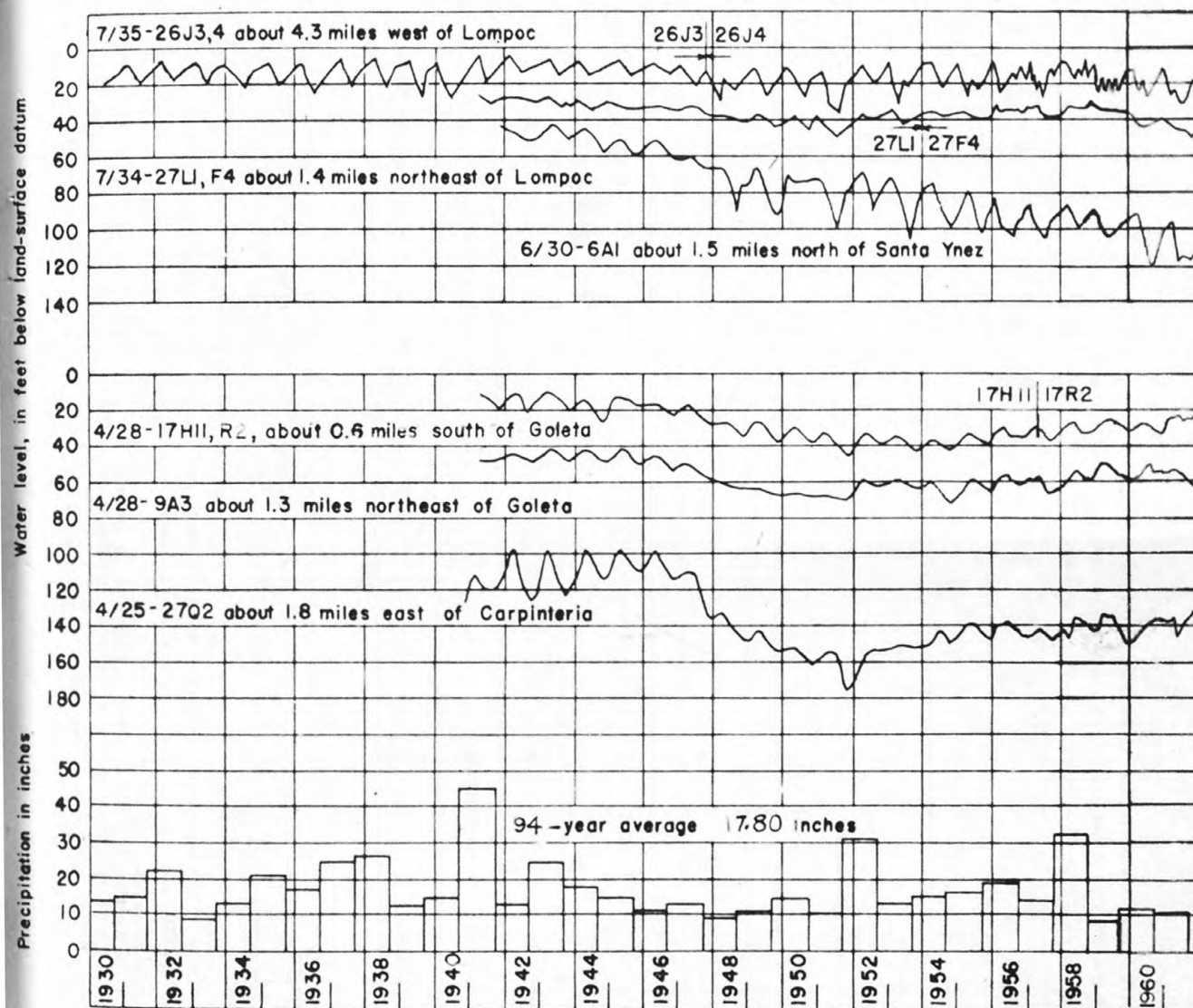
11C1	35.04	28.09	33.08	(a)	35.01	36.78	(a)	36.82	(a)	(a)	-	29.41
12R1	71.38	70.77	65.85	(a)	67.09	72.42	(a)	74.81	77.53	(a)	(a)	69.71

Table 1.--Continued

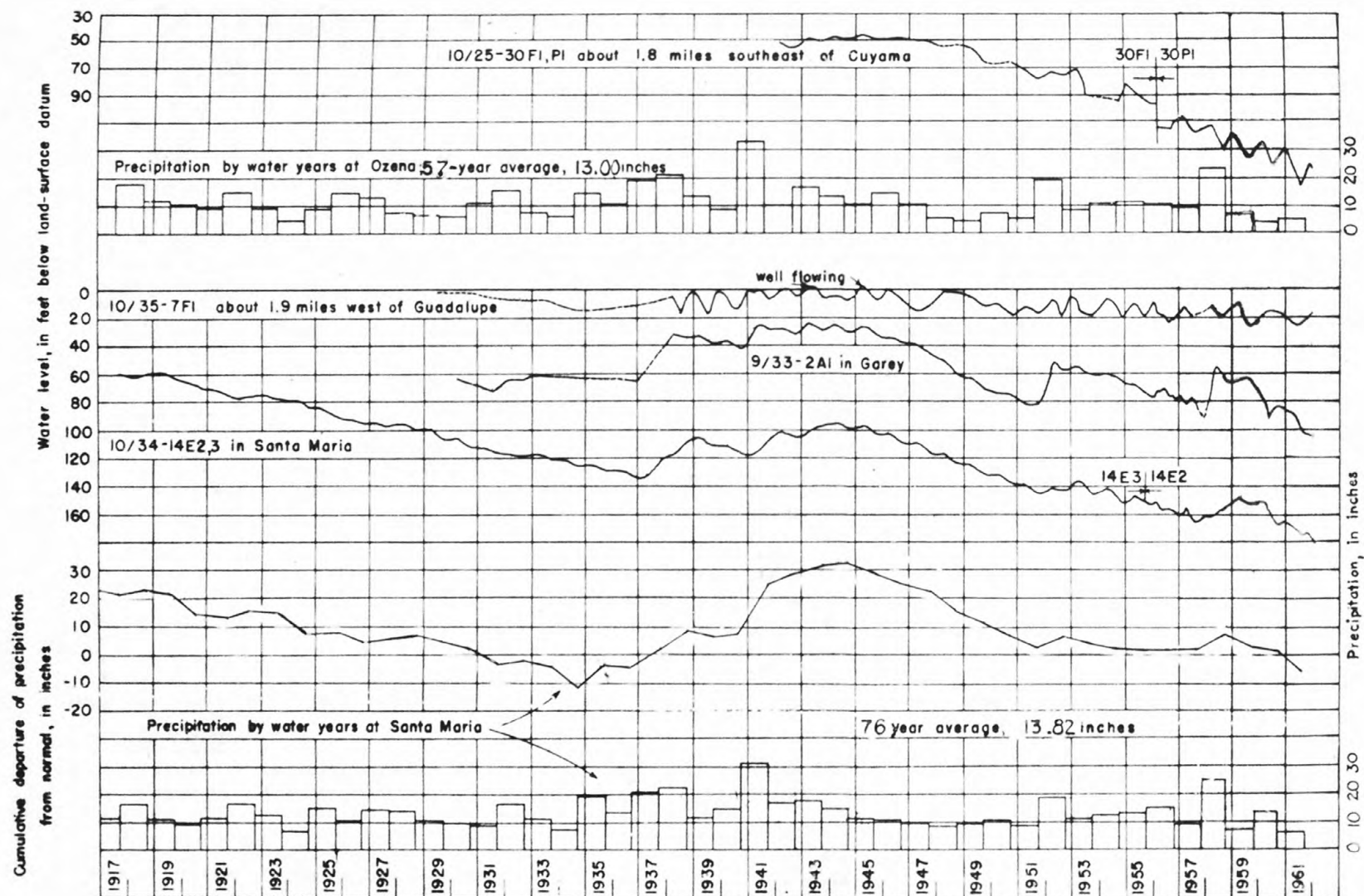
Summary of data on observation wells

CUYAMA VALLEY--(Continued)

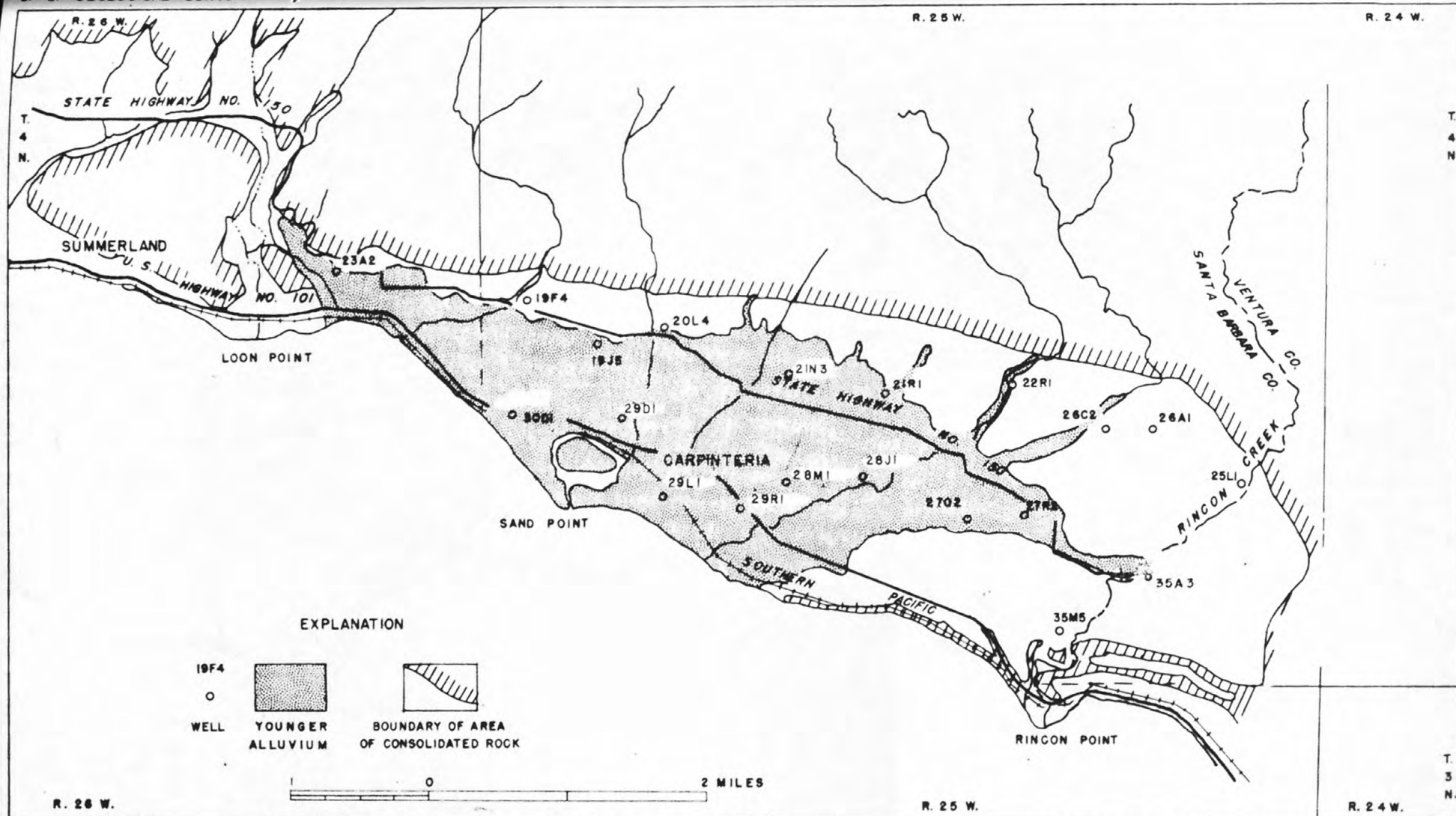
Well : no. : :	Owner or user	:Depth : :(feet): :	Use : : :	:Altitude: : (feet) : :	Year : : first : :measured:	:Years : : of : :record:	:Highest water level: : Date : : Mo-Yr :	:Lowest water level: : Water : : level :	: Date : : Mo-Yr :	: Water : : level :
<u>T. 10 N., R. 26 W.</u>										
4R1	Russell Bros.	Unknown	Dm,Ir	2,110	1955	6	4-55	18.60	5-61	52.58
16Q1	H. S. Russell	Unknown	Un	2,205	1954	8	2-54	33.33	9-55	71.50
22A1	William C. Ramelli	423	Un	2,200	1941	21	3-44	+0.51	7-61	37.76
27N1	Ray Calhoon	350	Dm, S	2,490	1955	5	4-55	133.27	11-60	143.49
<u>T. 10 N., R. 27 W.</u>										
11C1	Walt Smith	378	Dm,Ir	1,963	1942	16	4-58	19.01	9-54	41.38
12R1	Wm. Kirschenmann Estate	131	Dm,Ir	2,045	1941	21	4-42	38.58	9-61	77.53



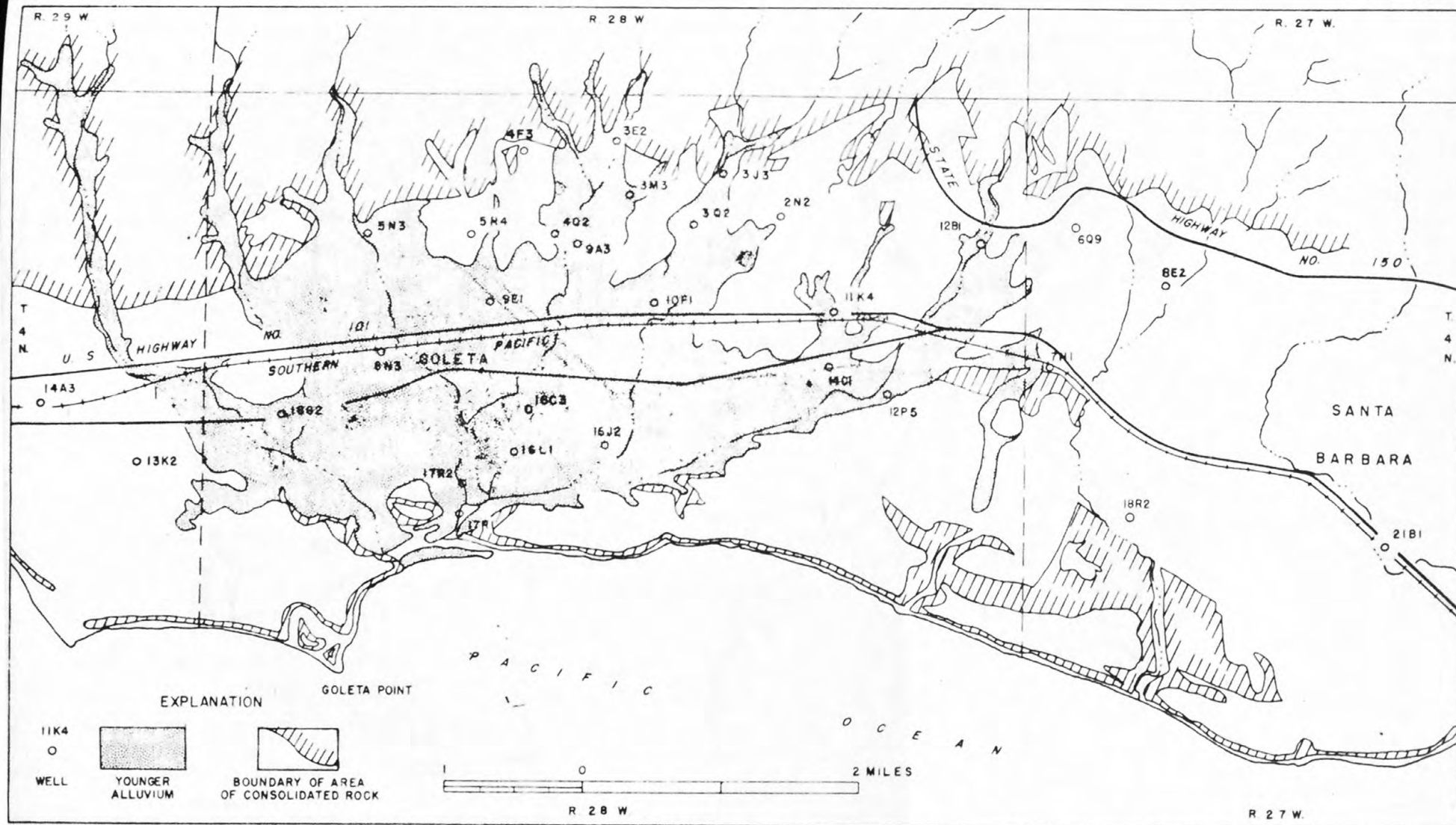
WATER-LEVEL FLUCTUATIONS IN SIX WELLS IN SANTA BARBARA COUNTY,
CALIFORNIA, AND PRECIPITATION BY WATER YEARS AT SANTA BARBARA



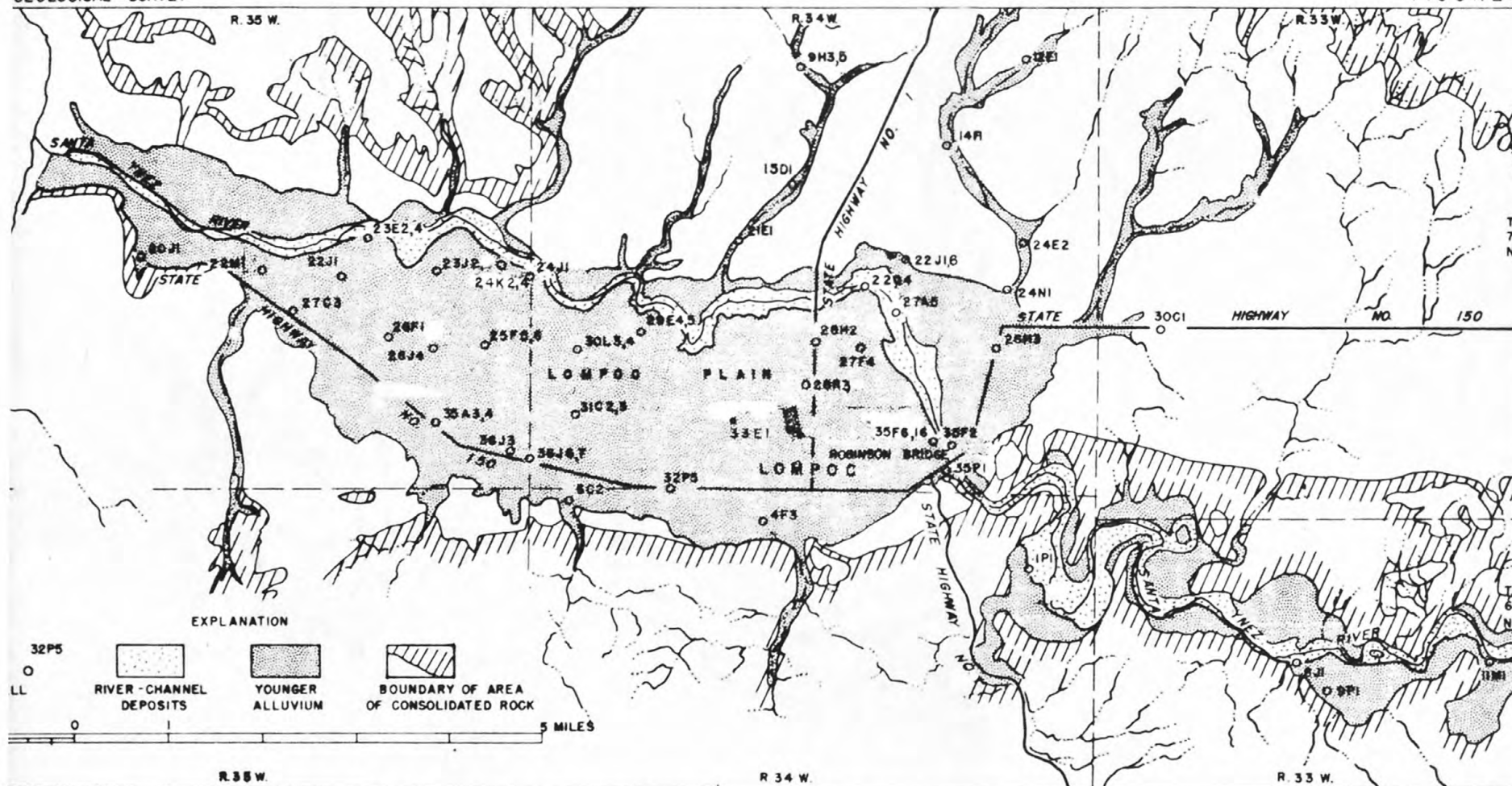
FLUCTUATIONS OF WATER LEVELS IN FOUR WELLS IN SANTA BARBARA COUNTY, CALIFORNIA,
AND PRECIPITATION BY WATER YEARS AT OZENA AND SANTA MARIA AND CUMULATIVE
DEPARTURE OF PRECIPITATION FROM NORMAL AT SANTA MARIA



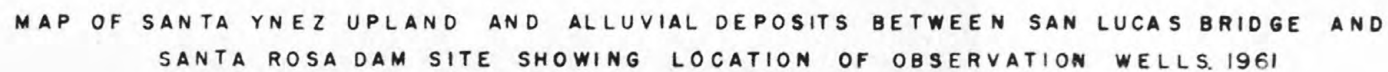
MAP OF CARPINTERIA BASIN SHOWING LOCATION OF OBSERVATION WELLS, 1961

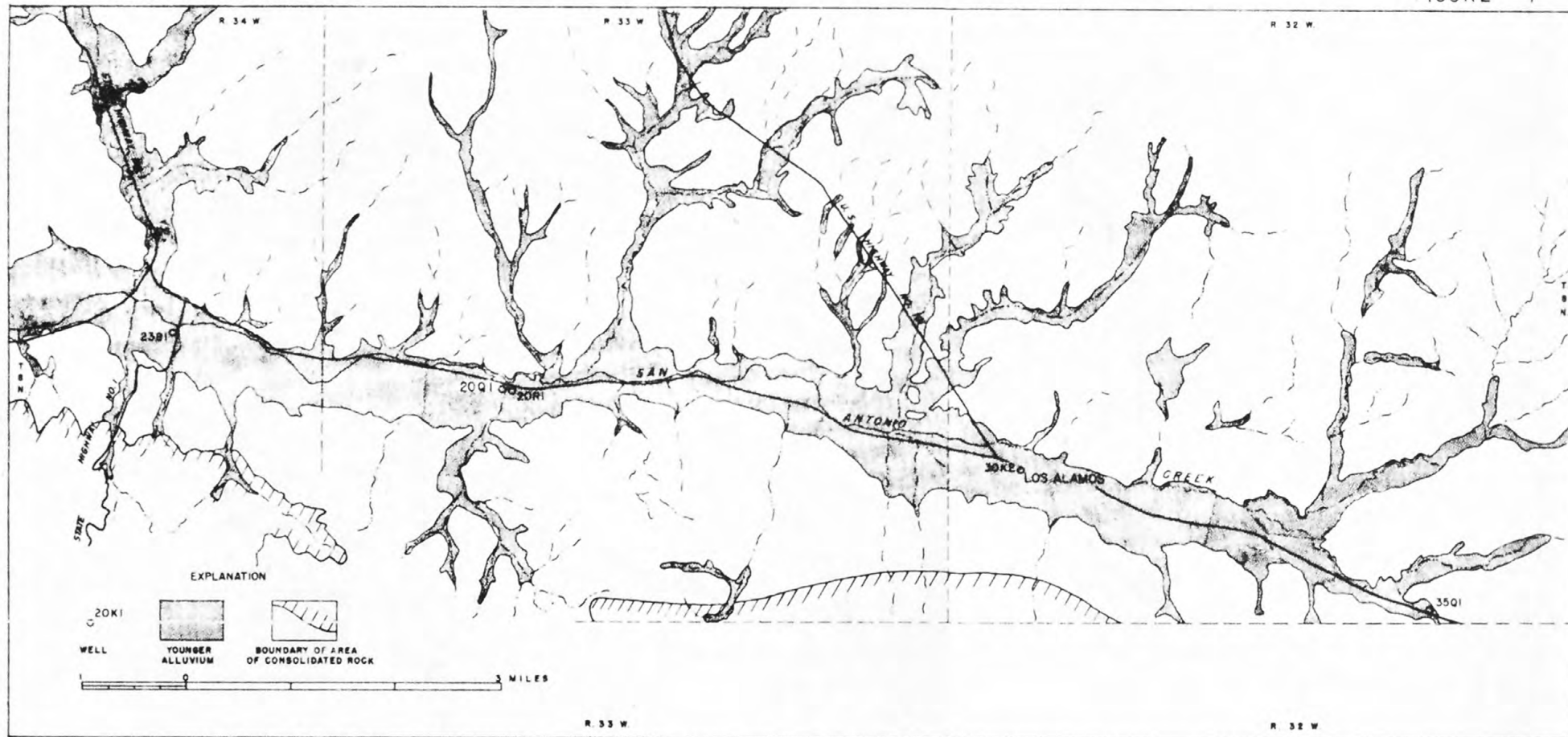


MAP OF GOLETA BASIN SHOWING LOCATION OF OBSERVATION WELLS, 1961

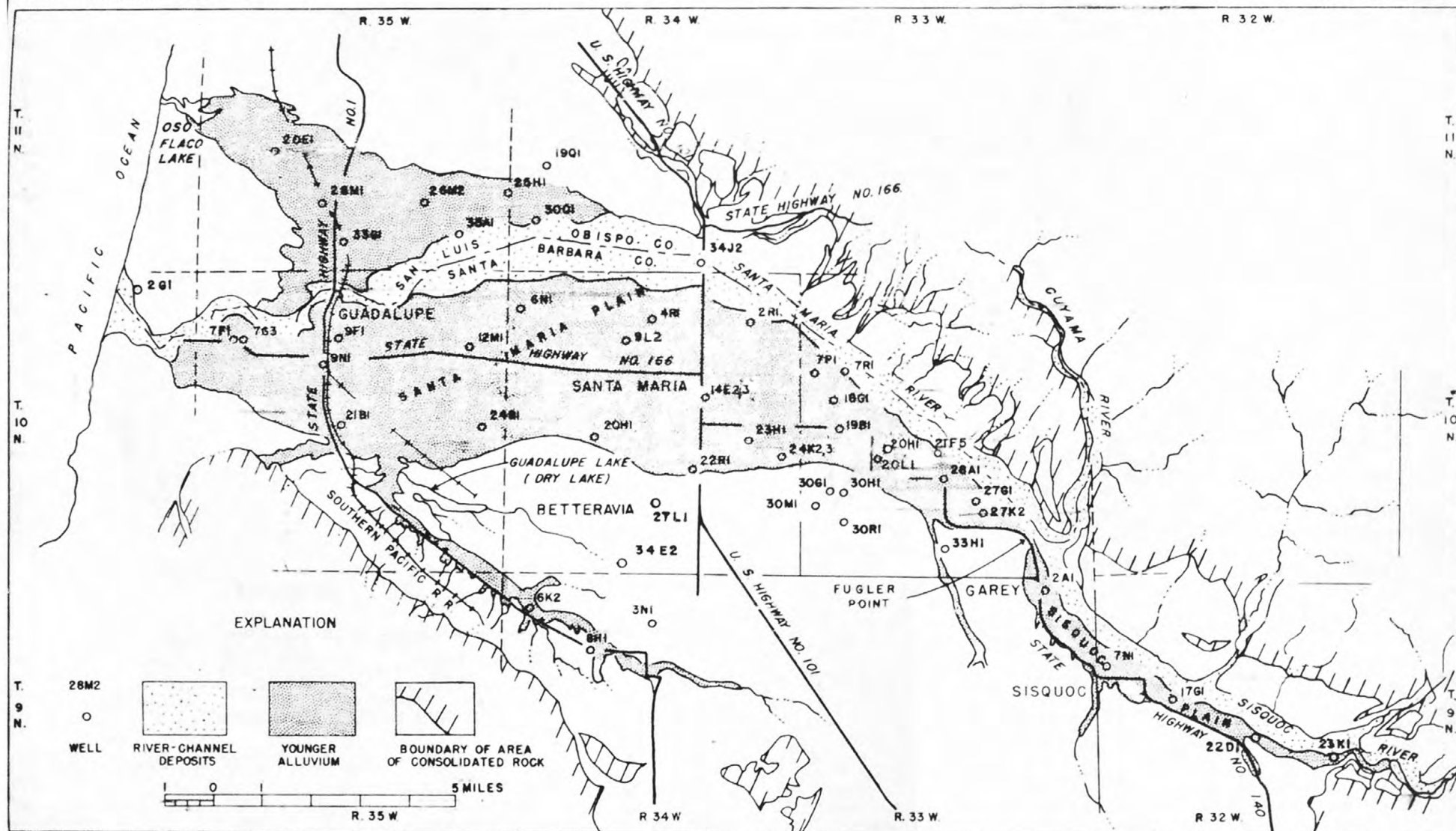


MAP OF LOMPOC PLAIN AND VICINITY SHOWING LOCATION OF OBSERVATION WELLS, 1961

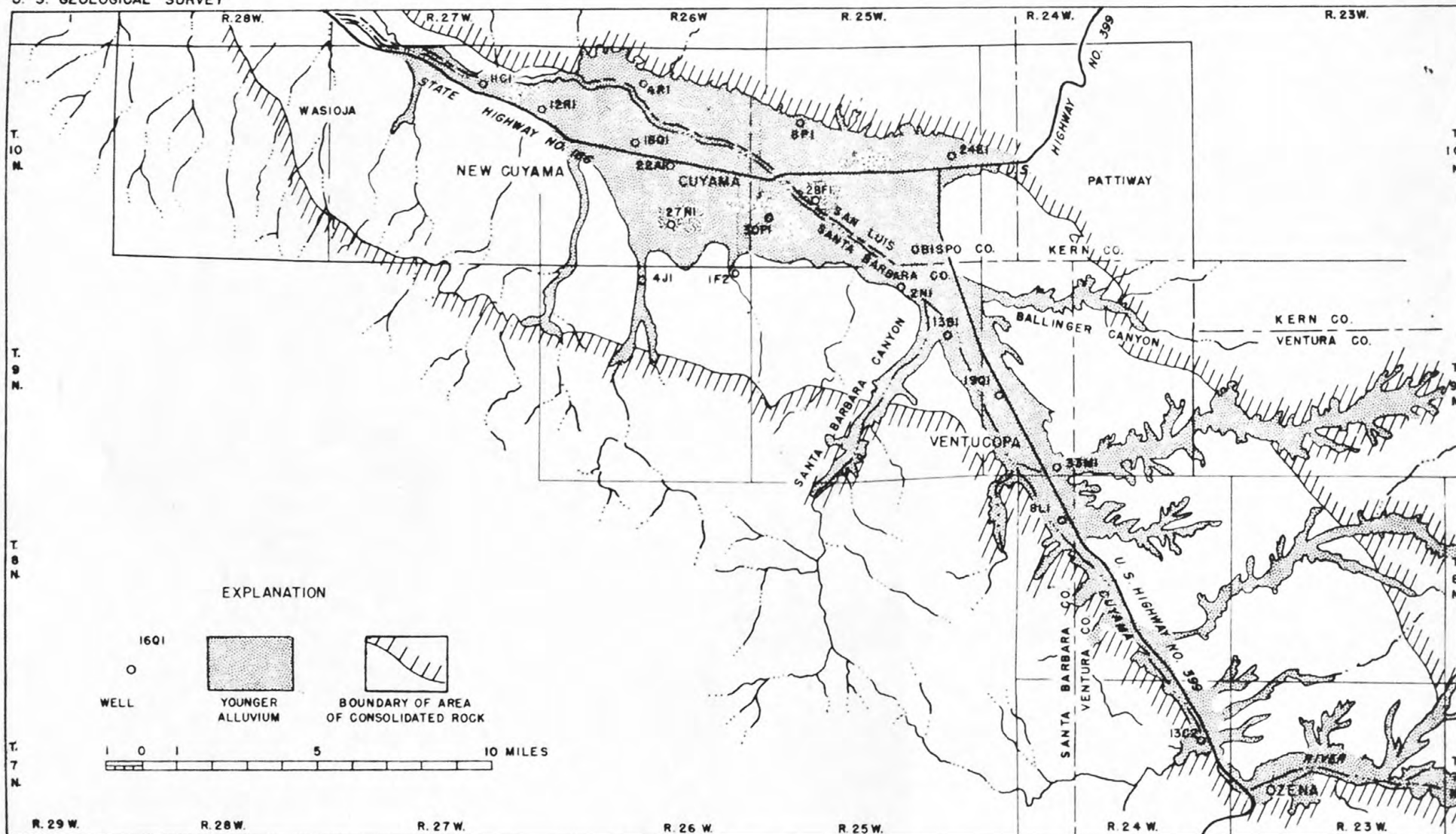




MAP OF SAN ANTONIO CREEK VALLEY SHOWING LOCATION OF OBSERVATION WELLS, 1961



MAP OF SANTA MARIA VALLEY AREA SHOWING LOCATION OF OBSERVATION WELLS, 1961



MAP OF GUYAMA VALLEY AND VICINITY SHOWING LOCATION OF OBSERVATION WELLS, 1961

