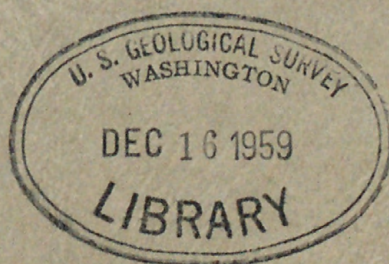


UNITED STATES
✓ DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

WATER LEVELS IN OBSERVATION WELLS IN
SANTA BARBARA COUNTY, CALIFORNIA, IN 1958



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Prepared in cooperation with the
Santa Barbara County Water Agency

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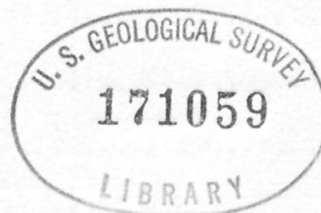
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by

G. A. Miller



FEB 1 1960

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WATER LEVELS IN OBSERVATION WELLS IN
SANTA BARBARA COUNTY, CALIFORNIA, IN 1958

By G. A. Miller

INTRODUCTION

Investigation of the ground-water resources of Santa Barbara County was continued during 1958 by the U. S. Geological Survey in cooperation with the Santa Barbara County Water Agency. Monthly water-level measurements were made in 201 wells, in 11 of which automatic water-level recorders were operated. Earlier measurements, covering the period 1941 through 1955, have been published in Geological Survey Water-Supply Papers; those for 1956 and 1957 have been released locally in duplicated form. Water-Supply Paper 1068 contains tabulated descriptions of 2,246 wells in existence in 1942 in the various 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), 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, 1108, 1000, and 1110-B, respectively. 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 in October 1952. A report appraising the ground-water resources of the Santa Ynez River valley (Wilson, 1957) has been mimeographed and released locally.

In addition to the water-level measurements made by the Geological Survey in 1958, 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 Geological Survey 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 1958.

Distribution of observation wells in Santa Barbara County in 1958

Area	Number of observation wells:			at 1/ year end	Number of recording gages:
	Estab- lished	Discon- tinued			
Carpinteria Basin	0	1	21	0	
Goleta Basin	0	3	28	2	
Santa Ynez River valley	1	2	79	6	
San Antonio Valley	0	0	5	0	
Santa Maria Valley	2	1	47	3	
Cuyama Valley	2	0	21	0	
Total	5	7	201	11	

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 Montecito County Water District 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 rainfall of the winter of 1951-52 caused a temporary cessation of the downward trend (pls. 1 and 2).

The south-coast communities have united to solve their water problem with the building of the Cachuma dam and distribution system for the conservation 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 in the Santa Maria Valley was completed in 1958. Regulated releases of floodwaters 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 alinement 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 above-average precipitation during the water year ending September 30, 1958. At Santa Barbara, in the southeast corner of the county, 32.21 inches (14.20 inches above the 91-year average) was recorded; and at Santa Maria, in the northwest corner of the county, 25.14 inches (11.11 inches above the 73-year average) was recorded.

Plates 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 rainfall during the winter of 1957-58 caused a general reversal of this trend.

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

Carpinteria Basin

Water levels in the Carpinteria basin generally rose from the spring of 1957 to the spring of 1958. The increase in piezometric levels

in the area of confined water that underlies the central and western part of the basin ranged from about 5 to 12 feet, and averaged about 7 feet. In the area of recharge along the base of the foothills water levels in the spring of 1958 ranged from about 50 feet higher to 5 feet lower than in the spring of 1957. The average increase was about 13 feet. The hydrograph of well 4/25-27Q2 (pl. 1) is indicative of water-level fluctuations in the area of confined water. Plate 3 shows the location of observation wells in the Carpinteria Basin.

During 1958 the collection of water samples for chloride determination as an indication of sea-water contamination was continued. The analyses of samples collected from 3 key wells showed no significant increase in chloride concentration from 1957 to 1958.

Goleta Basin

Water levels in the Goleta Basin rose in 1958. In the confined-water area that underlies nearly all the central alluvial plain water levels in the spring of 1958 averaged about 4 feet higher than in the spring of 1957. Within the recharge area along the base of the foothills water levels in the spring of 1958 ranged from about 5 feet higher to 3 feet lower than in the spring of 1957, and averaged about 2 feet 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 1958 averaged 13 to 15 feet higher than in the spring of 1942. Although water levels in the central part of the Goleta Basin rose in 1958, they were still about 9 feet lower than in the spring of 1942.

The hydrographs of wells 4/28-17H11 and 4/28-9A3 (pl. 1) show water-level fluctuations in the area of confined water and the area of recharge, respectively. Plate 4 shows the location 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 1957 to 1958.

Santa Ynez River Valley

In general, water levels in the Santa Ynez River valley declined from the summer of 1945 through most of 1951. The downward trend was interrupted by a sharp rise in water levels as a result of above-average precipitation during the winter of 1951-52, and ground water in storage beneath the Lompoc plain and the alluvial deposits adjacent to the river was replenished to near capacity. From 1952 through 1955 water levels again declined until above-average precipitation during the winter of 1955-56 reversed this trend. Below-average precipitation during the winter of 1956-57 resulted in a downward trend of water levels, which was interrupted by a rise in water levels as a result of above-average precipitation during the winter of 1957-58.

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

Lompoc Plain

In the spring of 1958 water levels beneath the Lompoc plain ranged from about 1 to 5 feet higher than in the spring of 1957. Water levels in the recharge area at the eastern end and along the southern fringe of the Lompoc plain ranged from 1 foot higher to 1 foot lower during this period. In the area of confined water the levels rose an average of about 3 feet from the spring of 1957 to the spring of 1958.

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

Collection of water samples for the determination of chloride concentration as an indication of sea-water contamination was continued during 1958. Analysis of these samples showed no increase in chloride; in fact, the chloride concentration has not changed significantly over the past 17 years of record.

Between San Lucas Bridge and Robinson Bridge

In the spring of 1958 water levels in wells near the river between San Lucas Bridge and Robinson Bridge ranged from about 1 to 5 feet higher than in the spring of 1957 and averaged about 3 feet higher.

Santa Ynez Upland

Water levels in the observation wells on the Santa Ynez upland (pl. 6) rose, on the average, about 5 feet from the spring of 1957 to the spring of 1958. Net changes in water levels ranged from 20 feet above to 4 feet below the levels during the spring of 1957. The hydrograph of well 6/30-6A1 (pl. 1), considered to be representative for the upland, shows the water level declined less than 1 foot from the spring of 1957 to the spring of 1958. Water levels in the spring of 1958 were, on the average, about 28 feet lower than the levels in the spring of 1942.

San Antonio Valley

In general, water levels measured in wells in the central part of the San Antonio Valley (pl. 7) showed a rise of about 2 feet from the spring of 1957 to the spring of 1958. Individual wells ranged from no change to a rise of 3 feet during this period.

Santa Maria Valley

The Santa Maria Valley area (pl. 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 rose an average of about 2 feet in 1958.

The average water levels in this area in the spring of 1958 were about 22 feet lower than the levels in the spring of 1942. The hydrograph of well 10/35-7F1 (pl. 2) is typical of the wells along the seaward edge of the confined-water area and shows that water levels in this part of the area have declined about 10 feet since 1942.

The water levels in the remainder of the plain (recharge area) in the spring of 1958 ranged from about 35 feet higher to 13 feet lower than in the spring of 1957 and averaged about 22 feet higher. Water levels in the recharge area in the spring of 1958 averaged 19 feet lower than in the spring of 1942. The hydrographs of wells 9/33-2A1, 10/34-14E2, and 14E3 (pl. 2) are typical of the wells in the recharge area. Beneath the Sisquoc plain, upstream from Fuglers Point, the rise in water level was slightly less than in the recharge area as a whole and averaged about 14 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 (pl. 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. Consequently, water levels in the principal agricultural area near the western end of the valley remained fairly static until heavy withdrawals began in 1946. Hydrographs for wells 10/25-30F1 and 30P1 (pl. 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. From the spring of 1957 to the spring of 1958 water-level fluctuations ranged from a rise of about 50 feet in one well south of Ventucopa to a decline of about 8 feet in a well west of Cuyama; the average change in water level from the spring of 1957 to the spring of 1958 was a rise of about 3 feet. Since 1946, when electric power was brought into the Cuyama Valley, the net decline in water levels in observation wells has averaged about 26 feet.

REFERENCES

- LaRocque, G. A., Jr., and others, 1950, Wells and water levels in principal ground-water basins in Santa Barbara County, California: U. S. Geol. Survey Water-Supply Paper 1068.
- Troxell, H. C., and Wilson, H. D., Jr., 1952, Stream runoff and ground-water storage capacity, Santa Ynez River, Santa Barbara County, California: U. S. Geol. Survey open-file report.
- Upson, J. E., 1951, Geology and ground-water resources of the south-coast basins of Santa Barbara County, California, with a section on surface-water resources by H. G. Thomasson, Jr.: U. S. Geol. Survey Water-Supply Paper 1108.
- Upson, J. E., and Thomasson, H. G., Jr., 1951, Geology and water resources of the Santa Ynez River basin, Santa Barbara County, California: U. S. Geol. Survey Water-Supply Paper 1107.
- Upson, J. E., and Worts, G. F., Jr., 1951, Ground water in the Cuyama Valley, California: U. S. Geol. Survey Water-Supply Paper 1110-B.
- Wilson, H. D., Jr., 1957, Ground-water appraisal of the Santa Ynez River basin, Santa Barbara County, California: U. S. Geol. Survey open-file report.
- Worts, G. F., Jr., 1951, Geology and ground-water resources of the Santa Maria Valley area, California, with a section on surface-water resources by H. G. Thomasson, Jr.: U. S. Geol. Survey Water-Supply Paper 1000.

RECORDS OF WATER LEVELS

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, 1958: The actual dates of U. S. Geological Survey water-level measurements ^{1/} in the several valleys in 1958 are listed below.

:Month:	Carpinteria:	Goleta:	Santa Ynez	San Antonio:	Santa Maria:	Cuyama:
Jan.:	Feb. 3	:Jan. 31:	29, 30, 31:	30	: 30	: 29
Feb.:	28	: 28	: 27, 28	: 25	:24, 25:	24
Mar.:	28	: 28	:26, 28, 31:	25	: 25	: 24
Apr.:	29	: 29,30	:28, 29, 30:	30	: 30	: 28
May :	27	: 26	: 28, 29	: 28	: 28	: 26
June :	23	: 27	: 24, 25	: 26	:23, 24:	24
July :	31	: 30	: 28, 29	: 30	:29, 30:	29
Aug. :	27	: 29	: 28, 29	: 26	: 26	: 27
Sept.:	25	: 25	: 26, 29	: 23	:23, 26:	22
Oct. :	30	: 30	: 28, 29	: 29	: 29	: 27
Nov. :	28	: 28	: 25, 26	: 26	: 26	: 24
Dec. :	Jan. 5	:Dec. 29:	29, 30, 31:	31	: 31	: 30

^{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.) 18

Table 1.--Records of water levels in 1958

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.
- n Reported.

Table 1.--(Continued)

Water levels near month end, 1958

CARPINTERIA

Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
T. 4 N., R. 25 W.												
19F4	97.62	92.32	85.36	71.38	72.90	76.70	79.56	82.27	83.66	85.70	87.16	87.61
J5	64.31	61.87	(j)	49.53	47.18	51.90	56.82	58.58	57.24	c59.20	59.24	59.53
20L4	120.21	112.56	(j)	98.58	99.39	105.24	114.81	118.18	119.25	117.71	118.60	119.19
21N3	66.18	65.26	63.71	63.23	b65.43	64.46	61.39	(a)	63.31	65.37	60.26	-
R1	113.59	113.32	112.64	111.08	110.19	109.60	109.29	108.63	108.30	109.80	108.52	109.11
22R1	102.35	63.75	51.77	c48.10	c46.20	c49.10	c59.55	-	c77.87	c79.08	c91.01	88.76
25L1	16.11	11.47	11.11	11.32	11.15	10.95	11.85	12.08	11.83	12.09	17.08	17.21
26A1	308.67	305.90	-	297.17	-	298.00	283.80	279.41	279.99	281.39	293.82	-
C2	307.18	304.46	-	288.42	-	c282.94	281.78	280.55	281.81	283.61	281.96	-
27Q2	143.03	145.99	143.48	141.77	138.26	136.68	136.95	137.50	137.53	139.01	j141.67	142.12
R2	157.22	155.14	153.39	145.80	143.83	142.81	152.30	154.16	154.10	155.66	155.01	155.30
28J1	108.79	108.24	107.00	98.28	96.39	(a)	(a)	(a)	-	(a)	(a)	-
M1	70.82	69.16	67.79	61.08	59.87	60.26	71.53	72.25	72.79	74.68	69.67	70.37
29D1	27.47	25.19	23.48	18.75	(a)	(a)	23.59	24.48	23.72	25.27	23.21	-
L1	18.35	15.71	13.19	12.83	7.43	15.28	17.66	18.51	13.11	15.33	16.31	-
R1	44.83	43.66	42.40	38.94	39.76	62.02	59.56	55.73	53.12	-	55.60	50.04
30D1	9.53	8.03	5.60	0.53	4.18	3.61	8.09	11.57	7.18	6.51	4.94	-
D2	17.64	16.00	13.26	7.26	6.78	6.63	7.16	8.31	-	-	-	-
34F2	138.96	144.06	142.78	Discontinue	-	-	-	-	-	-	-	-
35B1	124.86	-	109.07	88.20	75.75	72.11	72.86	-	77.76	79.03	108.24	-
M5	185.05	184.08	183.02	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
T. 4 N., R. 26 W.												
23A2	49.13	49.19	47.61	48.18	47.53	51.15	49.32	-	51.61	48.95	48.81	-

Table 1.--(Continued)

Summary of data on observation wells

CARPINTERIA

Well No. :	Owner or user :	Depth : (feet) :	Use :	Altitude : (feet) :	Year : first :	Years : of :	Highest water level : Date :	Lowest water level : Date :
:	:	:	:	:	measured :	record :	Mo-Yr : level :	Mo-Yr : level :
<u>T. 4 N., R. 25 W.</u>								
19F4	M. F. Lewis	250	Dm, Ir	106	1941	18	4-58 71.38	3-50 123.40
J5	Lyman and Young	100	Un	55	1941	18	4-42 39.41	9-51 92.95
20L4	Carp. County Wtr. Dist.	264	Ps	111	1949	10	3-55 95.90	9-51 153.17
21N3	E. Bonebakker	305	Ir	59	1941	7	6-41 29.62	11-54 90.70
R1	Ben Moore	468	Un	127	1941	18	6-45 64.47	11-51 126.08
22R1	A. E. Pruner	130	Un	211	1941	9	4-44 11.26	12-57 113.75
25L1	Solari and Schweizer	124	Un	227	1941	9	4-57 6.25	12-49 82.54
26A1	Moses Mesa Assoc. Co.	480	Un	420	1946	13	2-46 230.09	11-55 387.00
C2	Shepard Mesa Mut. Wtr. Co.	450	Un	432	1946	13	5-46 226.10	11-51 353.99
27C2	A. F. Heimlich	198	Un	127	1941	18	4-45 92.86	9-51 175.42
R2	W. H. Yule	421	Ir	132	1941	18	4-45 94.96	9-51 182.23
28J1	W. C. and C. A. Catlin	175	Dm, Ir	89	1919	23	6-19 23.00	11-53 124.64
M1	Mrs. A. Baylor	96	Un	57	1941	18	4-45 19.84	8-51 Dry
29D1	H. W. Sturmer	147	Dm, Ir	17	1928	21	4-42 1.48	9-51 57.28
L1	A. P. Salzgeber	110	Un	18	1950	9	5-58 7.43	9-51 51.24
P1	Carp. Union High School	176	Un	32	1941	18	4-42 8.67	8-55 68.85
30D1	Sandyland Beach Club	210	Dm	7	1938	19	5-38 Flowing	11-51 48.73
D2	Calif. Highway Dept.	93	Un	18	1949	10	6-58 6.63	9-51 41.39
34F2	H. R. Hirsch	563	Un	154.1	1949	10	6-49 125.50	9-56 146.70
35B1	E. R. Dickover	140	Dm	193	1941	18	3-45 19.18	9-51 134.18
K5	Jack Rose	542	Dm, Ir	215	1949	6	5-49 164.90	11-56 194.49
<u>T. 4 N., R. 26 W.</u>								
23A2	Frank Wymond	330	Dm, Ir	63	1941	13	4-50 45.44	4-51 85.00

Table 1.--Continued

Water levels near month end, 1958

GOLETA

Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<u>T. 4 N., R. 27 W.</u>												
6Q9	244.99	244.00	-	243.75	-	243.30	243.16	242.96	243.46	243.59	242.55	242.13
7J2	93.54	95.17	85.50	83.53	(a)	(a)	(a)	(a)	(a)	(a)	80.60	78.79
N1	114.64	112.16	110.47	108.55	107.78	117.10	125.45	124.25	124.88	124.92	124.66	123.54
18R2	(a)	(a)	-	(a)	(a)	(a)	37.02	37.41	(a)	-	(a)	(a)
21B1	53.27	51.35	49.59	47.79	46.90	46.50	46.38	46.43	46.56	46.05	46.06	46.02
<u>T. 4 N., R. 28 W.</u>												
2E1	12.18	9.68	8.88	7.93	8.38	8.68	9.73	9.99	10.21	10.49	Discontinue	-
N2	38.85	15.48	15.02	13.87	14.10	13.91	18.70	24.21	27.42	30.87	32.89	31.31
3E2	15.26	13.62	13.02	13.29	13.46	13.57	c14.18	c14.31	14.05	13.91	13.80	13.68
J3	37.73	36.87	36.54	35.77	35.79	36.11	36.38	37.13	37.38	37.97	37.32	36.96
M3	111.06	110.90	110.75	108.94	-	-	-	-	-	-	-	-
N Q2	136.30	135.91	-	133.56	-	c136.40	c135.53	c134.05	c133.89	c134.43	c134.12	133.31
4F4	46.96	46.09	45.34	44.18	43.90	43.20	42.49	41.86	41.44	41.10	40.89	40.61
C2	91.97	90.63	88.44	84.39	-	83.59	84.95	84.56	-	-	87.10	86.88
5K3	9.33	8.05	7.06	8.33	8.56	8.79	8.98	8.95	9.42	9.39	Destroyed	-
N3	35.80	34.66	-	31.56	32.58	32.29	31.07	30.71	-	-	30.59	-
R4	67.27	66.85	-	65.59	64.42	64.26	63.75	63.55	64.01	63.83	62.29	61.39
8N3	43.20	42.24	41.09	39.32	38.23	38.25	37.43	37.89	37.35	38.39	37.03	35.83
9A3	60.34	59.64	58.61	54.35	54.25	54.71	57.30	57.10	57.40	57.81	55.10	53.91
E1	70.14	69.45	68.88	68.00	(a)	(b)	67.15	(b)	67.47	66.86	67.47	67.07
10F1	79.06	77.47	77.81	76.15	76.20	76.31	72.55	73.05	73.51	-	71.28	70.38
11K4	105.53	104.11	104.39	103.90	(a)	(a)	(b)	(b)	107.51	108.13	103.07	102.11

Table 1.--(Continued)

Summary of data on observation wells

GOLETA

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. 4 N., R. 27 W.</u>										
6Q9	D. J. Davis	Unknown	Un	325	1954	5	12-58	242.13	11-54	248.72
7J2	Allen E. Rogers	187	Ir	230	1941	4	4-56	84.39	9-56	99.10
N1	La Cumbre Estates Corp.	Unknown	Un	185	1957	2	5-58	107.78	10-57	129.79
18F2	Hillside House Fndn.	Unknown	Dm	110	1956	3	5-56	36.21	3-56	47.98
21B1	City of Santa Barbara	454	Un	68	1948	11	2-48	37.04	10-51	99.58
<u>T. 4 N., R. 28 W.</u>										
2E1	Marble Ranch Co.	Unknown	Ir	194	1955	4	4-58	h7.93	12-55	k13.62
N2	Santa Barbara County	100	Un	177.65	1943	16	4-54	12.94	11.51	61.34
3E2	Peter Cavaletto	75	Un	116.73	1941	18	4-41	8.57	10.48	45.17
J3	Hollister Estate	194	Un	137	1955	4	1-56	35.09	11-55	42.04
M3	L. W. Fowler	171	Un	118.40	1947	12	1-57	106.87	9-49	145.24
Q2	A. J. Haverland	360	Un	120.57	1943	16	1-48	84.69	9-51	154.64
4F4	W. C. Laird	Unknown	Un	145	1955	4	12-58	40.61	1-55	63.75
Q2	R. S. Rowe	325	Un	88.45	1941	18	4-45	61.24	6-50	117.92
5K3	Leno Mostachetti	24.5	Un	113	1941	5	1-56	k5.38	9-57	k10.22
N3	Sellar Bullard	278	Un	83.40	1941	6	11-58	30.59	9-41	60.08
R4	F. J. Ewing	154	Ir	57.15	1937	8	6-37	40.00	9-54	78.70
8N3	Shrode-Nelson Produce	Unknown	Id	28	1955	4	12-58	35.83	4-55	51.00
9A3	L. M. Cavaletto	125	Un	84.10	1941	18	3-43	38.60	9-54	71.51
E1	A. T. Spaulding	310	Dm	43.58	1941	17	6-41	27.64	10.54	78.66
10F1	J. S. Edwards	459	Dm, Ir	79.90	1932	22	4-43	56.44	7-56	103.27
11K4	Giovanni Cavalli	297	Dm, Ir	67	1947	12	3-47	67.72	8-54	119.95

Table 1.--Continued.

Water levels near month end, 1958

GOLETA--(Continued)

Well : No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
T. 4 N., R. 28 W.--(Continued)												
12B1	131.19	-	-	127.92	126.56	128.01	-	128.21	-	129.89	130.56	-
P4	-	-	207.38	(f)	-	(a)	(a)	(a)	(a)	(a)	-Discontinue	
14C1	68.53	68.05	67.22	66.82	63.99	64.81	64.33	63.99	64.21	64.59	64.92	64.58
16J2	65.90	64.27	63.30	71.15	(a)	(a)	(a)	(a)	(a)	(a)	71.26	70.53
L1	43.84	42.49	40.93	43.40	42.29	41.99	-	42.71	42.99	43.49	b48.03	46.84
17P1	k13.38	h12.62	k11.59	k8.23	k11.16	k12.08	k12.66	k12.97	k13.42	k13.20	k12.69	k11.91
R2	k28.62	k27.50	h26.63	k25.95	k28.13	h29.35	k29.90	k30.17	k29.98	k29.39	k28.43	k27.23
18C2	-	3.92	3.01	1.65	0.90	0.70	0.02	0.16	0.54	1.45	+0.46	-0.13
T. 4 N., R. 29 W.												
13K2	29.38	28.84	28.67	28.68	27.23	27.13	26.59	26.63	25.84	26.21	24.94	23.88
14A3	67.25	66.79	64.35	60.19	60.20	60.42	61.12	61.31	61.99	-	56.99	56.41

Table 1.--(Continued)

Summary of Data on observation wells

GOLETA--(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 :	
:	:	:	:	:	measured:	record:	level	level	level	
T. 4 N., R. 28 W.--(Continued)										
12B1	St. Vincent's School	189	Dm,Ir,S	203	1941	6	1-42	75.41	11-55	139.34
P4	La Cumbre Mut. Wtr. Co.	550	Ps	100	1953	5	2-56	192.81	10-57	217.85
14C1	Do	524	Ps	40	1944	5	1-44	57.01	4-56	83.10
16J2	J. Ciampi & Sons	458	Ir	26	1946	6	5-46	39.45	11-54	96.49
L1	Oakley-Bonnetti	276	Dm, Ir	22	1954	5	3-58	40.93	11-54	61.39
17R1	USGS, Pac. Light. Gas Sup.	158	Ob	4.91	1955	4	4-58	k8.23	9-55	k19.00
R2	Do do	155	Ob	7.87	1955	4	4-58	k25.95	8-55	k39.83
18G2	T. B. Bishop Co.	395	Un	7	1941	18	11-58	+0.46	8-45	45.99
T. 4 N., R. 29 W.										
13K2	T. B. Bishop Co.	378	Un	24	1941	16	12-58	23.88	9-50	55.59
14A3	Ben Romer	160	Dm, Ir	51	1941	18	12-58	56.41	7-51	87.46

Table 1.--(Continued)

Water levels near month end, 1958

SANTA YNEZ RIVER VALLEY

Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<u>T. 6 N., R. 30 W.</u>												
3A1	-	121.57	-	117.97	103.63	(a)	107.07	108.69	(a)	105.92	106.65	107.53
6A1	91.45	88.88	86.75	(a)	90.81	98.21	(a)	(a)	94.19	93.39	91.69	89.81
7K6	49.38	48.09	46.98	-	47.03	-	50.20	51.65	48.80	48.72	48.41	48.07
9N1	(a)	(a)	38.90	39.19	(a)	38.60	(a)	38.35	38.28	38.22	38.19	38.21
15A1	14.27	13.52	-	8.55	-	9.33	9.85	8.27	8.61	10.67	10.96	11.25
21B2	13.58	12.79	13.49	-	12.03	-	13.89	(a)	14.05	13.63	13.47	13.70
29E1	h17.02	k14.58	k13.88	k10.78	k11.79	k12.21	k12.75	k13.94	k15.18	k16.92	k16.03	h15.44
<u>T. 6 N., R. 31 W.</u>												
2K1	48.28	44.86	37.93	32.98	35.92	35.37	(a)	(a)	37.17	35.24	35.69	(a)
13D1	(a)	(a)	(a)	(a)	(a)	-	-	(a)	(a)	117.49	118.20	117.39
15A5	-	15.98	13.20	11.06	(a)	14.09	(a)	(a)	-	15.41	(b)	-
16N2	12.50	11.19	11.02	10.07	(a)	(a)	12.75	(a)	13.75	14.97	12.78	12.49
17F1	23.37	(a)	20.00	19.57	22.52	22.51	24.89	c25.43	22.46	23.39	23.30	(a)
21H1	Discontinued-	-	-	-	-	-	-	-	-	-	-	-
<u>T. 6 N., R. 32 W.</u>												
2Q1	58.09	57.79	57.66	56.19	56.16	56.60	(a)	(a)	57.14	(a)	(a)	b57.55
6K1	(a)	(a)	(a)	17.30	18.23	(a)	(a)	19.66	(a)	20.50	(a)	20.84
9A1	33.67	28.96	(a)	(a)	31.00	33.23	(b)	35.76	35.58	34.53	(a)	(a)
11N1	(a)	33.22	25.74	26.38	-	26.84	30.66	(a)	32.10	32.56	32.78	33.12
16P3	(a)	43.25	-	(a)	43.86	-	-	(a)	46.00	45.91	44.94	44.80
18H1	(a)	31.75	29.49	(a)	31.30	31.72	(a)	a33.58	(a)	36.20	(a)	31.79

Table 1.--(Continued)

Summary of data on observation wells

SANTA YNEZ RIVER 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 : Date : Mo-Yr :	Water level :
<u>T. 6 N., R. 30. W.</u>									
3A1	L. Hourihan	407	Ir	720	1954	5	5-58	6-57	137.38
6A1	Sam Torrence	262	Ir	665.29	1942	17	4-43	9-57	105.30
7K6	Valley Pump & Supply Co.	100	Un	611	1950	7	3-52	9-56	51.99
9N1	San Lucas Ranch	160	S	660.01	1941	18	9-44	1-56	41.54
15A1	Rex Clark	35+	S	600	1942	6	8-58	5-57	17.02
21B2	Bryant Myers	70	Ir	498.75	1952	7	10-57	9-57	25.15
29E1	Rancho Juan y Lolita	52	Un	465.02	1933	26	3-41	5-51	k24.00
<u>T. 6 N., R. 31 W.</u>									
2K1	Sam de la Cuesta	75	Dm, Ir	627	1942	13	1-42	9-57	52.42
13D1	Mrs. W. E. Parker	170	Dm	608	1941	18	3-42	10-55	120.95
15A5	Louis Janin	160	Ir	652.94	1950	9	3-52	9-57	26.60
16N2	H. G. Petersen	47	Ir	366.29	1941	12	5-41	9-57	24.39
17F1	John R. Orton	43	Dm	362.90	1930	29	4-41	8-57	31.90
21H1	Petan Corporation	60	Dm	399.34	1941	10	1-42	3-54	18.25
<u>T. 6 N., R. 32 W.</u>									
2Q1	Wallace Dine	115	Dm	359.46	1949	10	4-52	3-51	59.91
6K1	Manuel P. Domingos	74	Dm, S	383.55	1932	21	7-32	10-53	22.90
9A1	Owen E. Hollister	58	Dm	307.67	1932	27	1-42	1-56	39.55
11N1	Doty and Mercer	50	Dm	332.74	1932	12	4-52	12-54	36.80
16P3	Channing Peake	70	Ir	293.18	1941	18	2-43	10-51	50.18
18H1	T. J. Donovan	50	Dm, S	267.09	1932	21	10-41	11-51	40.16

Table 1.--(Continued)

Water levels near month end, 1958

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	43.42	41.47	38.50	37.38	42.51	43.74	44.40	44.40	44.20	44.08	-	43.51
9P1	45.69	40.30	38.18	36.55	38.45	c42.80	42.20	41.89	40.59	39.58	40.31	39.59
11M1	8.54	8.41	5.51	6.31	6.33	7.99	(a)	8.58	8.57	8.55	8.50	8.08
<u>T. 6 N., R. 34 W.</u>												
1P1	39.63	38.47	37.45	36.14	37.27	(a)	(a)	(a)	37.76	(a)	38.24	(a)
4F3	47.94	47.40	45.12	42.95	c44.18	45.72	47.11	46.55	45.42	45.13	45.71	44.94
6C2	(a)	(a)	a54.80	(a)	55.23	57.83	(a)	58.27	57.05	(a)	b56.83	57.09
<u>T. 7 N., R. 30 W.</u>												
33M2	173.40	172.70	171.74	171.66	172.70	c175.13	175.95	c183.48	177.75	176.46	174.64	172.80
<u>T. 7 N., R. 31 W.</u>												
23P1	79.87	76.86	(a)	(b)	83.15	(a)	69.05	(a)	(a)	55.46	50.00	(a)
25L1	103.00	(a)	102.02	87.43	(a)	(b)	78.95	(a)	(a)	84.47	(a)	85.00
36L2	67.67	65.72	63.75	62.06	63.08	(a)	71.50	77.42	79.10	76.83	73.15	74.70
<u>T. 7 N., R. 33 W.</u>												
30C1	158.79	158.82	158.70	158.57	158.95	158.78	158.75	158.82	158.93	158.95	158.95	159.04
<u>T. 7 N., R. 34 W.</u>												
9H3	-	-	-	-	11.45	12.67	-	-	14.09	11.05	12.69	11.65
12E1	k305.18	k305.15	k304.89	k304.91	k304.89	k305.18	k305.26	k305.22	-	k305.44	k305.50	k305.32
14F1	199.28	196.32	200.74	200.70	-	201.50	202.00	203.00	201.91	200.89	200.80	202.49
21E1	k21.88	k20.55	k19.89	-	k18.77	k19.77	k20.72	k21.28	k20.97	k21.16	k20.62	k20.71

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 :	:	:
<u>T. 6 N., R. 33 W.</u>										
8J1	Hollister Estate	62	Un	200.57	1941	12	4-58	37.38	9-51	52.14
9P1	Do	83	Un	203.03	1932	27	4-41	21.80	11-50	54.61
11M1	William Rennie	65	Ir	203.82	1947	11	2-50	4.29	11-51	16.39
<u>T. 6 N., R. 34 W.</u>										
1P1	Hollister Estate	164	Ir	150.37	1949	10	4-58	36.14	2-57	45.42
4F3	City of Lompoc	81	Un	95	1950	9	4-58	42.95	4-51	58.17
6C2	Bank of America	185	Dm, S	99.80	1930	26	2-43	47.88	4-51	76.78
<u>T. 7 N., R. 30 W.</u>										
33M2	J. B. Kelley	318	Un	746.35	1953	6	3-54	160.21	9-57	181.70
<u>T. 7 N., R. 31 W.</u>										
23P1	F. L. Mattei	141	Dm, Ir	821.86	1942	17	8-42	8.09	5-58	83.15
25L1	Richter and Lee	200	Dm	806	1942	17	4-44	55.83	9-57	101.60
36L2	D. B. Kilbourne	230	Dm, Ir	720.62	1942	17	4-43	16.54	8-57	80.85
<u>T. 7 N., R. 33 W.</u>										
30C1	John Valla	183	Un	235.24	1941	18	2-46	150.41	12-58	159.04
<u>T. 7 N., R. 34 W.</u>										
9H3	USGS, Union Oil Co.	103	Ob	275	1948	11	10-48	9.32	8-56	12.81
12E1	Do do	385	Ob	385.83	1949	10	6-49	h301.70	12-58	k305.53
14F1	Walter F. Ziesche	250	Un	268.32	1947	12	10-47	194.94	8-58	203.00
21E1	USGS, Dept. of the Army	145	Ob	82	1948	11	4-49	h17.97	8-51	k25.02

Table 1.--(Continued)

Water levels near month end, 1958

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)												
22J1	33.42	31.89	-	31.00	33.94	34.09	33.77	33.78	31.80	31.46	31.69	-
O4	19.08	17.57	15.69	15.46	16.82	15.40	16.91	15.30	15.23	15.22	15.25	15.27
24E2	-	108.22	109.12	-	115.90	116.30	112.20	113.11	-	109.76	109.58	109.54
N1	-	-	(a)	60.22	(a)	(a)	-	(a)	-	(a)	(a)	61.10
26H3	k44.53	k43.70	k43.26	k43.05	k43.70	k44.23	k44.99	k45.65	k45.01	h45.13	h43.97	h43.52
27A5	14.35	9.89	6.56	7.14	7.30	7.87	8.16	8.40	8.67	-	8.59	10.03
F4	38.81	37.02	33.04	(a)	33.18	(a)	35.82	(a)	34.66	36.79	34.52	34.72
28H2	33.25	31.68	28.27	27.32	-	29.06	-	27.12	c32.23	c31.31	c30.75	c31.31
R1	13.61	13.21	9.34	8.78	15.53	12.69	14.39	12.54	11.26	11.41	10.97	8.13
R2	14.87	14.45	-	-	-	-	-	-	-	-	-	-
29E4	24.51	21.11	18.36	20.85	28.15	28.29	30.64	26.14	23.49	25.17	24.30	23.57
E5	22.76	22.31	21.36	20.13	20.03	20.66	-	-	-	21.17	21.07	21.20
30L3	20.68	19.34	16.88	16.39	c17.85	19.38	20.99	20.10	19.09	15.97	18.31	19.17
L4	19.79	-	-	15.23	(a)	-	-	-	-	20.45	19.49	20.25
31C2	26.13	20.85	18.62	19.13	25.64	26.19	26.44	23.26	22.30	22.21	21.47	21.11
C3	-	-	-	16.52	16.90	16.20	16.44	16.70	16.49	-	-	-
32A1	30.98	30.27	26.50	26.63	(a)	34.68	(a)	(a)	(a)	32.14	33.48	32.04
A4	27.63	27.30	27.86	27.54	-	26.50	26.92	26.76	26.55	26.33	26.40	26.49
P5	29.50	28.17	26.00	25.86	26.49	27.45	28.49	27.92	27.39	27.29	25.83	27.27
34H1	k47.27	k43.58	k39.97	h39.39	k40.22	k40.63	k41.30	k42.16	k42.29	k42.86	k43.38	k42.65

Table 1.--(Continued)

Summary of data on observation wells

SANTA YNEZ VALLEY--(Continued)

Well :	Owner or user	:Depth :	Use :	Altitude:	Year :	Years:	Highest water level:	Lowest water level		
no. :		:(feet):		: (feet) :	first :	of :	Date :	Water :	Date :	Water
:		:	:	:	:measured:	record:	Mo-Yr :	level :	Mo-Yr :	level
T. 7 N., R. 34 W.--(Continued)										
22J1	Santa Barbara County	73.3	Un	98.92	1941	3	3-41	21.04	5-57	36.05
Q4	USGS, A. Scolari	24	Ob	82.72	1947	12	4-57	12.26	8-50	(f)
24E2	J. F. de Costa	191	Ir	178.25	1938	8	11-38	103.17	6-58	116.30
N1	State of California	183	Ir	130.4	1930	13	5-30	51.2	9-57	63.01
26H3	R. C. Lilley	123	Un	112.92	1950	9	3-50	h40.13	10-57	h47.78
27A5	USGS, L. H. Schuyler	19	Ob	79.19	1955	4	4-58	6.56	12-55	15.78
F4	J. Maxwell Wilson	178	Ir	96.79	1952	7	2-43	31.91	1-52	40.68
28H2	Tom M. Parks	78	Un	89.55	1930	27	3-43	21.74	5-51	43.14
R1	W. A. Burpee	146	Un	69.68	1930	29	4-41	2.09	3-51	24.31
R2	USGS, W. A. Burpee	16	Ob	69.50	1943	16	3-44	2.70	12-51	(f)
29E4	W. H. Sanor	176	Ir	67.71	1945	14	4-59	18.36	3-51	42.26
E5	USGS, W. H. Sanor	27	Ob	67.74	1945	14	10-45	18.21	6-51	(f)
30L3	USGS, Union Sugar Co.	27	Ob	58.79	1945	14	12-46	15.83	5-51	(f)
L4	Union Sugar Co.	190	Ir	59	1951	8	4-59	15.23	3-53	36.10
31C2	Do	Unknown	Ir	64.72	1941	13	4-41	8.56	9-48	46.38
C3	USGS, Union Sugar Co.	28	Ob	64.68	1947	12	4-53	12.24	12-51	21.97
32A1	Mrs. May Clemens	180	Ir	79.99	1939	16	4-41	7.6	4-57	48.97
A4	USGS, O. F. Benn	31	Ob	79.28	1947	12	12-47	24.21	7-50	(f)
P5	USGS, J. Bodger & Sons	37	Ob	77.60	1947	12	2-49	24.47	5-51	35.50
34H1	Johns-Manville Corp.	160	Un	112.10	1941	18	5-41	h33.46	7-51	h56.71

Table 1.--(Continued)

Water levels near month end, 1958

SANTA YNEZ RIVER VALLEY--(Continued)

Well :	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
No. :	:	:	:	:	:	:	:	:	:	:	:	:
T. 7 N., R. 34 W.--(Continued)												
35F2	30.46	19.02	-	14.50	17.73	17.80	18.60	19.21	20.13	22.00	23.27	18.69
F6	(f)	41.89	-	37.56	38.64	39.24	40.60	42.00	42.35	43.25	45.44	40.89
F16	51.68	43.89	-	39.59	41.20	41.45	(a)	43.22	(a)	44.53	(a)	42.54
P1	43.54	37.30	36.29	35.97	36.21	38.60	38.78	39.43	40.30	40.21	40.83	38.57
T. 7 N., R. 35 W.												
20J1	8.37	6.16	3.55	4.89	6.06	8.31	8.93	9.31	8.16	7.82	7.36	-
22J1	11.79	8.55	6.01	7.67	c13.51	c12.55	13.15	11.27	10.86	10.28	9.81	9.37
M1	7.67	4.25	-	3.15	5.22	6.78	8.41	7.52	(a)	7.56	7.83	6.16
23E2	15.58	12.77	-	(a)	15.28	14.80	(a)	14.15	(a)	13.78	14.89	13.33
E4	18.48	18.54	-	c18.38	19.13	18.43	-	18.43	c18.38	18.40	18.43	18.42
J2	16.90	13.61	11.40	18.20	21.16	(a)	18.84	16.17	17.72	18.99	(a)	(a)
J3	16.11	-	9.30	9.16	13.93	c15.20	Discontinue	-	-	-	-	-
24J1	28.21	26.46	23.86	22.75	22.93	23.20	24.70	24.67	24.56	24.51	24.70	24.87
K2	26.25	23.09	14.90	15.73	(a)	(a)	n25.50	-	(a)	(a)	23.19	(a)
K4	-	Measurement resumed			c27.60	(a)	31.28	(a)	c27.98	(a)	23.36	-
25F5	-	-	-	-	12.50	20.52	22.74	16.40	18.11	-	-	-
F6	11.90	10.23	8.08	8.71	8.47	9.57	10.32	10.88	11.17	10.26	10.30	10.60
26F1	11.81	7.59	5.24	5.77	c14.20	15.10	c16.84	14.27	11.45	11.40	7.65	9.56
F3	8.84	6.63	3.91	5.92	7.37	6.53	c8.14	6.96	8.06	8.59	8.60	8.43
J4	16.08	b8.99	6.56	5.76	18.26	13.26	16.40	11.53	13.46	b16.80	b11.30	11.22
27C3	-	5.13	1.87	3.42	5.45	6.59	9.98	7.50	7.17	7.55	7.70	6.49
28H2	2.87	(a)	(a)	(a)	3.22	1.40	a3.91	a2.58	2.83	4.51	1.48	-

Table 1.--(Continued)

Summary of data on observation wells

SANTA YNEZ RIVER 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:
T. 7 N., R. 34 W.--(Continued)									
35F2	Valla Bros	140	Un	100.33	1930	29	3-41	9.53	11-51 32.92
F6	USGS, M. Schuyler	55	Ob	119.46	1943	16	2-44	35.91	8-45 (f)
F16	M. Schuyler	173	Ir	119.5	1947	12	12-52	39.42	7-51 61.15
P1	W. P. & N. L. Robinson	51	Un	121.3	1931	26	3-41	29.32	3-48 51.90
T. 7 N., R. 35 W.									
20J1	Dept. of the Army	108	Un	19.07	1930	29	3-58	3.55	7-30 31.27
22J1	Union Sugar Co.	185	Ir	32.04	1930	22	3-58	6.01	4-51 24.03
M1	Dept. of the Army	180	Ir	28.84	1947	12	3-52	2.87	7-50 18.51
23E2	Union Sugar Co.	212	Ir	36.59	1930	23	3-52	11.86	7-49 33.06
E4	USGS, Union Sugar Co.	28	Ob	36.90	1947	12	3-52	12.22	7-48 22.67
J2	Union Sugar Co.	158	Ir	43.58	1947	12	3-58	11.40	7-50 31.11
J3	USGS, Union Sugar Co.	32	Ob	43.43	1947	12	4-58	9.16	10-51 26.56
24J1	Tom M. Parks	171	Un	59.40	1941	15	5-41	18.26	4-48 35.83
K2	A. B. Henning	180	Ir	51	1941	11	5-41	14.59	3-56 28.23
K4	do	Unknown	Dm	51	1953	5	3-54	21.32	7-58 31.28
25F5	Union Sugar Co.	180	Ir	47.44	1944	10	1-53	10.13	3-55 27.51
F6	USGS, Union Sugar Co.	19	Ob	47.70	1945	14	5-46	6.09	11-51 15.90
26F1	Union Sugar Co.	186	Ir	36.84	1941	13	4-41	0.32	7-49 27.09
F3	USGS, Union Sugar Co.	18	Ob	34.70	1947	12	4-58	3.91	7-49 13.29
J4	Santa Barbara County	141	Ps	40.86	1947	12	1-53	7.50	7-51 33.63
27C3	County Nat'l Bank & Trust	158	Un	28.42	1932	13	4-41	0.64	6-39 24.14
28H2	Dept. of the Army	67	S	38.55	1930	12	1-53	Flowing	4-31 22.45

Table 1.--(Continued)

Water levels near month end, 1958

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.--(Continued)												
35A3	11.90	9.27	5.71	5.41	7.27	9.32	b14.90	9.85	(a)	(a)	8.41	8.25
A4	6.79	2.49	2.26	2.15	3.80	6.53	8.24	9.04	c9.13	c9.25	6.46	8.19
C4	3.11	1.74	-	2.11	2.25	2.46	3.14	2.70	2.79	2.99	2.30	2.21
36J3	h22.83	h22.40	h19.70	k15.15	k17.75	-	k21.21	k19.19	k19.11	k18.87	-	k19.09
J6	23.16	20.91	15.81	15.11	-	19.77	21.95	20.19	19.76	19.85	19.40	19.55
J7	18.19	21.65	11.90	11.77	13.80	15.46	18.30	18.06	17.70	17.85	-	-

Table 1.--(Continued)

Summary of data on observation wells

SANTA YNEZ RIVER 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. 7 N., R. 35 W.--(Continued)</u>									
35A3	Gus Aquistapace	100	Ir	45.58	1947	12	4-58	5.41	7-50 25.81
A4	USGS, Gus Aquistapace	23	Ob	45.88	1947	12	1-56	1.58	10-51 16.95
C4	USGS, Dept. of the Army	9	Ob	36.68	1947	12	3-54	1.65	10-55 4.82
36J3	Ted Holden	102	Ob	58.76	1930	19	4-41	h4.56	4-55 k35.05
J6	do	102	Ir	58.50	1947	12	2-46	19.85	7-50 38.15
J7	USGS, Denholm Seed Co.	32	Ob	58.50	1947	12	12-57	19.00	7-50 31.32

Table 1.--(Continued)

Water levels near month end, 1958

SAN ANTONIO

Well : No. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
T 8 N., R. 32 W.												
30K2	14.55	12.22	10.38	7.26	c9.61	12.94	19 40	11 44	11.75	11.25	9.76	8.48
35C1	154.65	-	-	-	m120.98	m121.51	145 70	145.12	144.24	142.91	140.51	138.56
T 8 N., P 33 W												
29Q1	30 96	31.02	30.48	29.56	29.62	28.15	c35 97	30.25	28.01	29.88	28 80	27.56
R1	(a)	29.12	29.29	(a)	(a)	(a)	36.00	28.59	(a)	(a)	(a)	(a)
T 8 N., R. 34 W.												
23B1	18.40	c17.79	17.06	c15.66	c17.76	c16.49	c20.00	c16.68	c16.37	c16.21	c16.14	c16.09

Table 1.--(Continued)

Summary of data on observation wells

SAN ANTONIO

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	555	1943	6	2-44		+1.16	-34.00
35Q1	Frank F. Barham	250	S	740	1943	3	12-43		118.46	168.38
<u>T. 8 N., R. 33 W.</u>										
20Q1	Virginia Barca Estate	351	Un	410	1943	16	2-44		4.27	38.15
R1	Do	75	Dm	410	1943	16	1-47		21.20	36.32
<u>T. 8 N., R. 34 W.</u>										
23B1	Josephine Harris Estate	150	Un	310	1943	15	2-44		12.19	20.30

Table 1.--(Continued)

Water levels near month end, 1958

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	108.65	-	102.09	c92.47	c88.81	(a)	bg75.43	(a,c)	-	82.41	71.91	71.09
17G1	58.53	(a)	43.19	29.21	(a)	(a)	(a)	(a)	(a)	(a)	36.64	(a)
18H1	80.64	e82.7±	77.70	63.52	(a)	52.46	(a)	-	-	60.61	49.78	47.91
<u>T. 9 N., R. 33 W.</u>												
2A1	86.73	82.23	76.45	58.64	55.30	b58.13	g55.90	61.68	62.70	63.50	64.03	63.37
<u>T. 9 N., R. 34 W.</u>												
3N1	c182.21	c181.89	c182.26	c182.33	c182.21	c182.71	c183.00	c183.11	c183.18	c183.29	c182.89	c181.49
6K2	90.11	-	c87.83	c87.76	c87.37	c89.15	c89.10	89.02	88.88	c88.51	88.72	88.43
8H1	142.09	121.12	119.73	c133.50	(a)	c144.48	c144.26	c144.91	(a)	c145.19	(a)	(j)
<u>T. 10 N., R. 33 W.</u>												
7P1	125.29	129.95	123.19	(a)	(a)	(a)	(a)	(a)	107.42	109.13	111.11	110.94
R1	124.44	124.11	122.44	96.69	89.78	88.51	91.78	94.99	97.23	99.80	101.50	103.01
18G1	g124.60	-	-	g124.05	-	-	bg112.58	-	-	g102.75	-	-
19B1	g142.36	m139.90	139.62	m146.01	m135.48	e128±	g119.60	m135.7	g119.48	m136.0	m126.1	m125.5
20H1.	-	-	-	109.40	102.92	(a)	(a)	(a)	-	108.89	86.94	86.23
21N2	Discontinue	-	-	-	-	-	-	-	-	-	-	-
27G1	g97.20	-	-	g66.27	-	-	bg45.97	-	-	bg50.96	-	-
K2	-	-	-	59.55	49.84	46.55	48.27	-	-	49.11	(a)	-
28A1	99.30	98.90	95.28	g91.18	67.53	60.22	bg64.20	57.96	57.98	58.11	58.23	57.91
30G1	g188.15	-	-	g186.82	-	-	bg199.90	-	-	g188.15	-	-
H1	g184.00	-	-	g182.00	-	-	bg197.00	-	-	g187.00	-	-
M1	g190.83	-	-	g179.78	-	-	g201.58	-	-	g198.00	-	-
R1	g179.00	-	-	g178.43	-	-	g182.82	-	-	g178.70	-	-
33H1	229.39	229.31	229.53	232.79	(a)	230.16	233.78	235.00	-	236.69	230.11	229.88

Table 1 - (Continued)

Summary of data on observation wells

SANTA MARIA VALLEY

Well :	Owner or user	Depth : :(feet) :	Use :	Altitude : (feet) :	Year : first : measured :	Years : of : record :	Highest water level : Date : Mo Yr : level :	Lowest water level : Date : Mo-Yr : level :		
<u>T. 9 N. R. 32 W.</u>										
7P1	Valerio Tognazzini	204	Ir	422	1924	25	4-44	24.62	10-51	113.95
17C1	J. A. Waugh	107	Dm	447	1941	18	4-43	11.22	6-50	66.33
18H1	E. L. Gracia	456	Ir	443	1950	5	12-58	47.91	12-50	61.27
<u>T. 9 N. R. 33 W.</u>										
2A1	Francis J. Calderon	168	Ir	378.72	1930	26	6-51	23.62	1-58	86.73
<u>T. 9 N., R. 34 W.</u>										
3N1	City of Santa Maria	248	Un	258	1932	12	6-37	g142	9-55	181.89
6K2	Associated Oil Co.	139	Un	161	1942	9	3-42	59.22	8-57	91.39
8H1	Richfield Oil Corp.	200	Dm	222	1955	4	3-58	119.73	1-58	142.09
<u>T. 10 N., R. 33 W.</u>										
7P1	P. T. Bonetti	365	Ir	260	1951	8	10-52	112.76	10-51	132.72
R1	Do	200	Un	270	1942	5	2-42	78.45	9-57	125.96
18G1	La Brea Securities Co.	436	Ir	273	1939	20	7-43	g66.75	4-51	g132.10
19B1	Owen T. Rice	307	Ir	275	1927	31	9-43	73.31	6-51	157.46
20H1	M. J. Santos	251	Ir	300	1929	16	8-38	56.88	12-50	129.17
21N2	Frank Costa Jr.	215	Dm	307	1930	15	6-44	67.14	9-51	140.92
27G1	L. H. Adam	272	S, Ir	338	1923	27	7-38	g26.00	7-51	g119.50
K2	Newhall Land Co.	255	Ir	344	1941	6	6-58	46.55	12-50	108.74
28A1	Security Farms	374	Ir	325	1929	30	7-38	g31.99	9-51	114.52
30G1	Lillian Cook	676	Ps	320	1951	8	1-53	g170.42	10-57	g193.60
H1	Do	758	Ir	310	1951	8	4-52	g151.51	4-56	g188.00
M1	Hancock Oil Co.	500	Id	310	1951	8	1-53	g174.00	7-58	g201.58
R1	Sheehy Bros	544	Ir	335	1951	8	1-53	g165.38	10-51	g184.00
33H1	E. L. Sargent	290	Dm, S	402	1947	12	1-47	179.50	10-58	236.69

Table 1.--(Continued)

Water levels near month end, 1958

SANTA MARIA VALLEY--(Continued)

Well No. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
<u>T. 10 N., R. 34 W.</u>												
2R1	141.27	125.65	120.70	104.83	98.16	g98.10	103.15	105.96	117.60	110.39	(a)	(a)
4R1	136.01	134.58	133.45	131.45	127.90	(a)	124.43	(a)	119.04	117.43	116.87	115.57
N1	g102.84	-	98.55	g97.59	(a)	95.72	bg94.30	(a)	-	bg91.50	(a)	(a)
9F1	g131.70	-	-	g128.70	-	-	g123.70	-	-	g121.50	-	-
14E2	161.22	160.06	159.36	c160.62	c160.28	c160.27	158.15	157.88	155.11	c153.99	151.28	149.33
20H1	120.16	-	117.84	-	c119.38	c120.96	-	c122.60	119.51	118.82	117.49	116.69
22R1	157.70	149.76	(a)	g148.80	150.80	151.36	153.05	154.30	153.71	bg155.94	148.05	(a)
23H1	147.95	146.82	146.35	150.55	153.50	(a)	bg159.15	154.62	151.02	151.11	148.33	147.25
24K2	g141.47	-	-	g137.25	-	-	g137.25	-	-	g143.30	-	-
K3	bg137.93	-	-	g134.80	-	-	bg134.80	-	-	g139.75	-	-
29N1	125.65	124.15	123.11	(a)	(a)	(a)	(a)	(a)	(a)	(a)	139.16	(a)
<u>T. 10 N., R. 35 W.</u>												
7F1	14.28	12.86	12.42	14.60	(a)	(a)	22.88	(a)	(a)	g21.55	19.31	18.38
G3	24.10	-	21.91	24.47	26.42	36.40	32.47	30.36	-	c32.96	26.42	23.91
9F1	42.43	40.40	39.68	g38.70	(a)	53.09	bg52.30	51.07	50.61	47.28	49.14	b48.17
N1	g40.83	-	-	g36.60	-	-	bg50.80	-	-	bg40.40	-	-
12M1	g86.60	-	-	g81.78	-	-	bg86.81	-	-	bg82.12	-	-
21B1	bg40.80	-	-	a40.52	38.76	(a)	bg51.68	(a)	(a)	bg58.05	(a)	55.02
24B1	94.71	88.15	87.02	g86.40	(a)	(b)	bg100.82	95.90	95.70	c103.75	c101.01	c100.03

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: Date :	Water level :	Water level
:	:	:	:	:	:measured:	record:	Mo-Yr	Mo-Yr	:	:
T. 10 N., R. 34 W.										
2R1	Gnacio Apalatequi	294	Ir	230	1929	24	6-43	12-57	69.16	142.50
4R1	Gerald Donovan	186	Ir	192	1930	16	3-45	8-57	72.89	138.70
6N1	Grisinger & Signorelli	190	Ir	152	1930	25	4-43	7-57	g48.40	g102.85
9F1	Mrs. Annie E. Preisker	224	Ir	189	1942	17	4-44	10-57	g70.62	g135.32
14E2	City of Santa Maria	182	Ps	225	1942	4	1-42	10-57	104.10	162.94
20H1	Leo Tognazzini	246	Ir	182	1930	17	3-45	8-56	66.57	148.50
22F1	George J. Wheat	252	Id	217	1931	23	3-45	1-58	93.19	157.70
23H1	Marion B. Rice	218	Ir	242	1929	24	4-43	11-56	g100.65	160.35
24K2	Union Oil Co	760	Id	244	1946	8	6-46	10-57	g63.00	g145.40
K3	Do	792	Id	245	1947	8	1-47	3-48	g71.00	g179.25
29N1	Pat Mahoney	117	Dm, Ir	170	1956	3	3-58	11-58	123.11	139.16
T. 10 N., R. 35 W.										
7F1	M. J. Ellis	249	Dm, Ir	48	1929	29	12-43	7-56	Flowing	g24.55
G3	John Jenkins	286	Un	53	1942	17	2-44	6-58	3.24	36.40
9F1	Waller Flower Seed Co.	198	Ir	88	1930	25	5-42	8-57	13.61	59.91
N1	Agnes F. King	285	Ir	87	1930	22	4-45	10-51	g13.30	g51.35
12M1	E. and G. Le Roy	210	Ir	138	1924	26	1-24	1-57	23.43	g87.35
21B1	Thomas J. Brucker	310	Ir	94	1938	21	2-44	8-55	7.85	57.66
24B1	Union Sugar Co.	290	Ir	144	1934	22	2-44	9-55	42.55	109.10

Table 1.--(Continued)

Water levels near month end, 1958

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>												
1901	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	252.86	(a)	(a)
30Q1	g98.25	-	-	g90.70	-	-	bg53.50	-	-	g80.50	-	-
34J2	102.80	100.75	93.03	(a)	(a)	(a)	(a)	(a)	-	86.04	73.04	c78.44
<u>T. 11 N., R. 35 W.</u>												
20E1	15.64	14.69	13.72	14.90	(a)	21.72	20.93	19.39	18.02	17.11	16.86	15.80
25H1	75.13	74.69	-	(a)	(a)	(a)	(a)	80.62	(a)	79.79	(a)	78.89
26E2	63.06	61.27	60.33	60.99	59.11	c73.56	c74.38	c72.84	65.09	63.36	63.05	62.29
28M1	g38.27	-	-	g34.13	-	53.92	g54.30	-	-	g33.00	-	-
33G1	53.80	46.90	45.59	47.60	47.78	52.05	g55.00	(a)	60.90	59.91	50.24	45.41
35A1	g77.11	-	-	g71.08	-	-	bg67.29	-	-	g71.37	-	-

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 Date :	Water level :
:	:	:	:	:	:measured:	record:	Mo-Yr	Mo-Yr	level
<u>T. 11 N., R. 34 W.</u>									
19Q1	Frank Silva	315	Dm	305	1947	12	1-47	h223.77	6-57
30C1	Mary Bolton	180	Ir	148	1930	24	5-41	34.59	10-57
34J2	Leon Loerness	214	Ir	148	1955	4	11-58	73.04	11-55
<u>T. 11 N., R. 35 W.</u>									
20E1	Union Sugar Co.	525	Ir	49	1938	21	2-44	Flowing	7-56
25H1	M. J. Mendoza	129	Un	135	1942	18	6-44	33.42	11-57
26M2	Sam Tognazzini	324	Un	106	1930	15	11-44	28.92	11-57
28M1	Union Sugar Co.	376	Ir	77	1934	22	12-43	11.09	7-57
33G1	H. E. Pezzoni	141	Ir	91	1930	24	2-44	16.49	9-58
35A1	Elmer A. Runels	195	Ir	123	1925	23	2-25	24.50	10-57

Table 1.--(Continued)

Water levels near month end, 1958

CUYAMA

Well No. :	Jan. :	Feb. :	Mar. :	Apr. :	May :	June :	July :	Aug. :	Sept. :	Oct. :	Nov. :	Dec. :
<u>T. 7 N., R. 24 W.</u>												
13C2	35.68	25.44	19.53	18.86	19.03	19.24	19.80	20.44	20.55	21.08	24.53	21.96
<u>T. 8 N., R. 24 W.</u>												
8L1	152.90	153.09	152.06	c128.13	c132.09	93.10	c95.65	95.96	c97.44	99.59	100.93	102.30
<u>T. 9 N., R. 24 W.</u>												
19C1	83.58	80.30	79.65	75.02	72.67	71.57	71.38	71.18	70.91	70.46	70.01	69.67
33M1	193.80	193.89	194.15	192.40	191.61	-	181.47	179.10	179.41	175.89	174.79	173.61
<u>T. 9 N., R. 25 W.</u>												
2N1	147.29	-	-	147.86	147.80	154.10	150.85	151.01	-	-	-	-
13B1	105.66	105.42	(a)	100.91	(a)	(a)	(a)	103.77	(a)	(a)	107.05	106.42
<u>T. 9 N., R. 26 W.</u>												
4J1	291.77	-	-	m290.65	-	-	293.03	293.03	-	-	292.17	-
<u>T. 10 N., R. 25 W.</u>												
8P1	81.50	-	80.72	-	79.89	-	81.60	82.13	81.52	81.09	80.61	80.39
22E1	-	154.49	150.20	(a)	(a)	(a)	d160.79	166.22	165.38	171.99	170.11	-
24E1	229.55	229.59	229.92	230.00	228.31	230.60	231.13	231.37	231.49	232.00	231.81	231.53
28F1	161.03	161.21	160.19	-	(a)	-	159.43	(a)	(a)	161.89	160.37	-
29P1	-	150.82	(a)	(a)	(a)	(a)	(a)	(a)	(a)	165.31	163.10	(a)
30P1	c115.25	115.08	115.37	c117.01	c122.34	-	c129.96	130.87	130.99	122.49	120.40	121.84
<u>T. 10 N., R. 26 W.</u>												
4R1	26.50	-	-	23.98	(a)	(a)	(a)	-	-	(a)	35.49	33.99
16C1	47.54	43.35	42.14	42.22	45.56	51.04	53.16	53.13	49.11	44.89	46.80	46.21
22A1	19.70	22.29	19.80	19.94	33.75	34.14	38.24	34.01	28.54	23.79	21.98	21.22
27N1	-	137.17	137.26	137.34	137.54	137.71	(a)	138.17	137.56	137.13	b138.34	137.71

Table 1.--(Continued)

Summary of data on observation wells

CUYAMA

Well : No. :	Owner or user	Depth : (feet):	Use :	Altitude: (feet) :	Year : first :	Years: of :	Highest water level: Date : Mo-Yr	Water : level	Lowest water level: Date : Mo-Yr	Water : level
<u>T. 7 N., R. 24 W.</u>										
13C2	Ventura County	165	Dm	3,418	1950	9	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	9	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	18	5-44	16.13	1-58	83.58
33M1	Walter C. Barnes	233	Un	3,049	1950	9	5-50	170.81	3-58	194.15
<u>T. 9 N., R. 25 W.</u>										
2N1	Julius Broden	254	Un	2,550	1953	6	3-53	139.14	6-58	154.10
13B1	William B. Farry	120	Dm	2,700	1952	7	4-58	100.91	10-56	110.84
<u>T. 9 N., R. 26 W.</u>										
4J1	J. G. James	327	Un	2,575	1946	5	8-46	185.00	4-55	312.27
<u>T. 10 N., R. 25 W.</u>										
8P1	Hub Russell	Unknown	Dm,S	2,393	1942	4	6-42	31.34	8-58	82.13
22E1	E. H. Mettler & Son	659	Dm,Ir	2,368	1946	2	4-46	n90.00	10-58	171.99
24E1	Do	600	Un	2,470	1950	8	5-50	198.00	10.55	239.11
28F1	Ralph Smith	292	Ir,S	2,340	1955	2	4-55	136.60	10-58	161.89
29P1	Oscar Schaeffer	403	Ir	2,370	1952	7	2-53	122.36	10-58	165.31
30P1	Kirschenmann & Presseler	400	Un	2,340	1955	4	1-57	109.55	9-58	130.99
<u>T. 10 N., R. 26 W.</u>										
4R1	Russell Bros	Unknown	Dm,Ir	2,110	1955	3	4-55	18.60	10-57	50.33
16C1	H. S. Russell	Unknown	Un	2,205	1954	5	2-54	33.33	9-55	71.50
22A1	William C. Ramelli	423	Un	2,200	1941	18	3-44	+0.51	8-54	-37.40
27N1	Mrs. E. R. King	Unknown	Dm, S	2,490	1955	2	4-55	133.27	8-58	138.17

Table 1.--(Continued)

Water levels near month end, 1958

CUYAMA--(Continued)

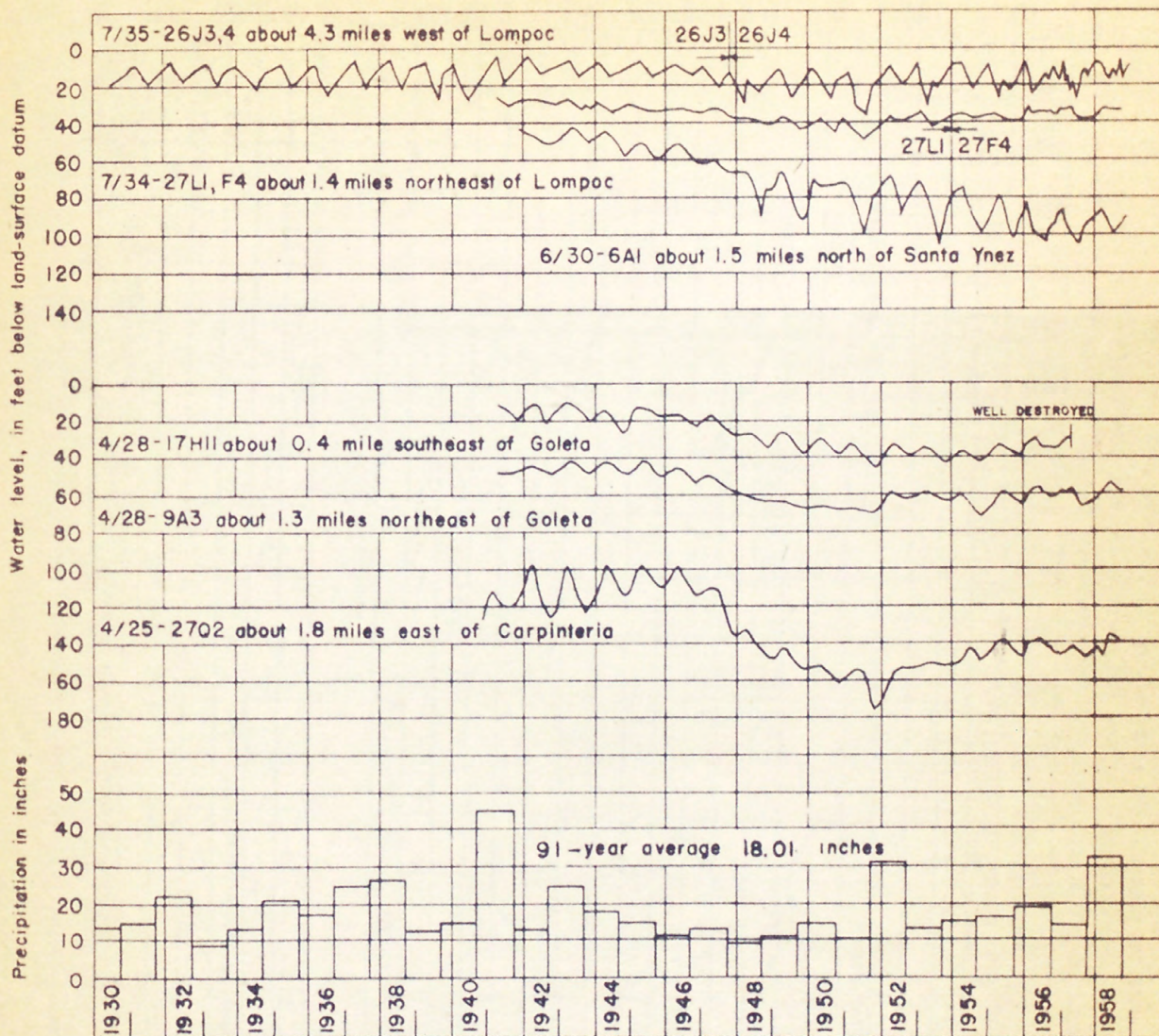
Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
T. 10 N., R. 27 W.												
11A2	26.50	25.60	24.31	23.16	22.14	c47.99	(c)	c46.73	c47.21	c46.81	27.88	25.11
C1	-	b31.79	20.43	19.01	b26.13	30.79	32.04	30.28	-	29.01	27.93	25.59
H1	56.88	56.01	41.11	39.89	38.11	(a)	(a)	(a)	(a)	(a)	47.11	45.88
12R1	-	55.70	55.27	54.25	(a)	55.17	(a)	53.83	(a)	54.89	53.21	52.39

Table 1.--(Continued)

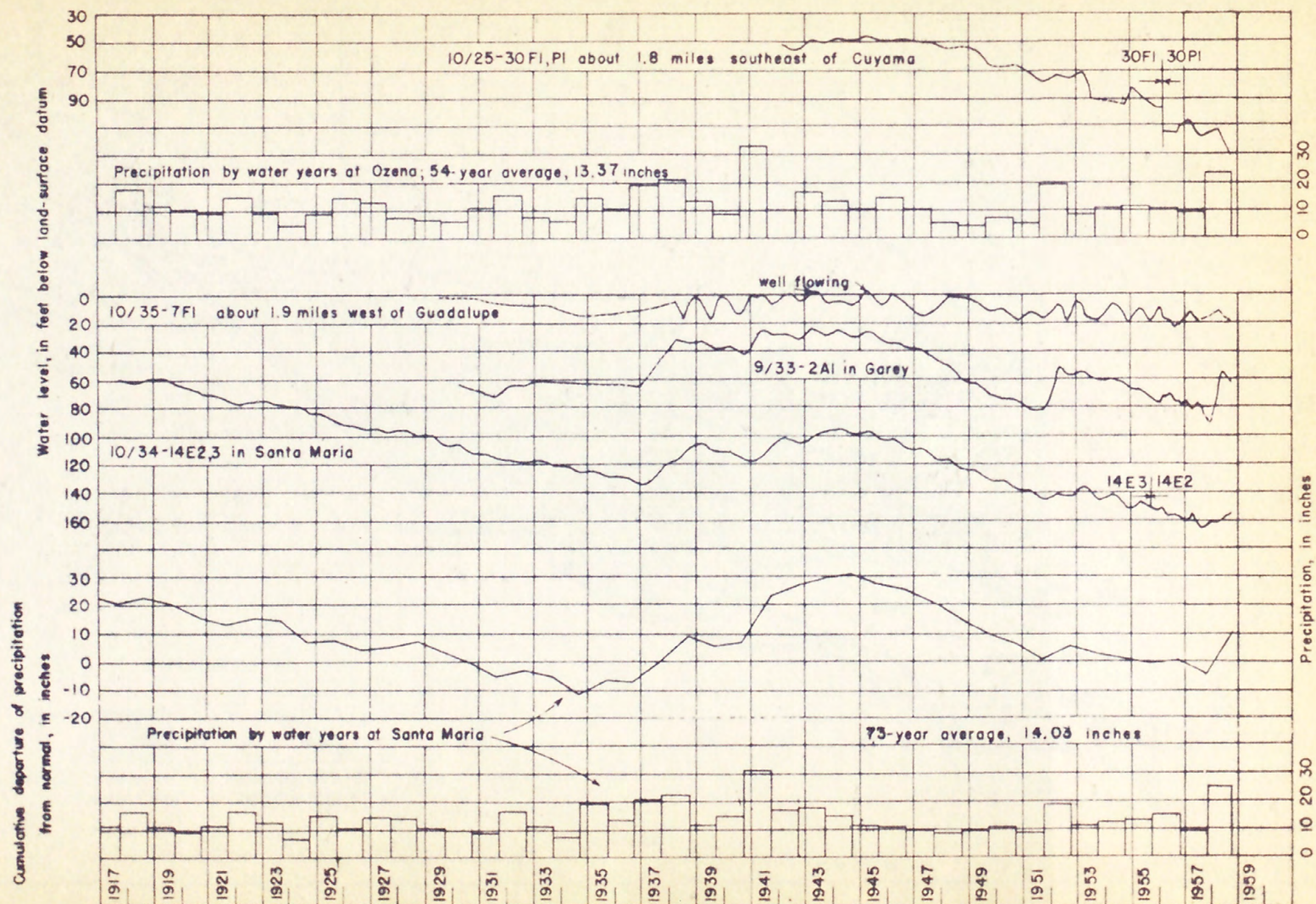
Summary of data on observation wells

CUYAMA--(Continued)

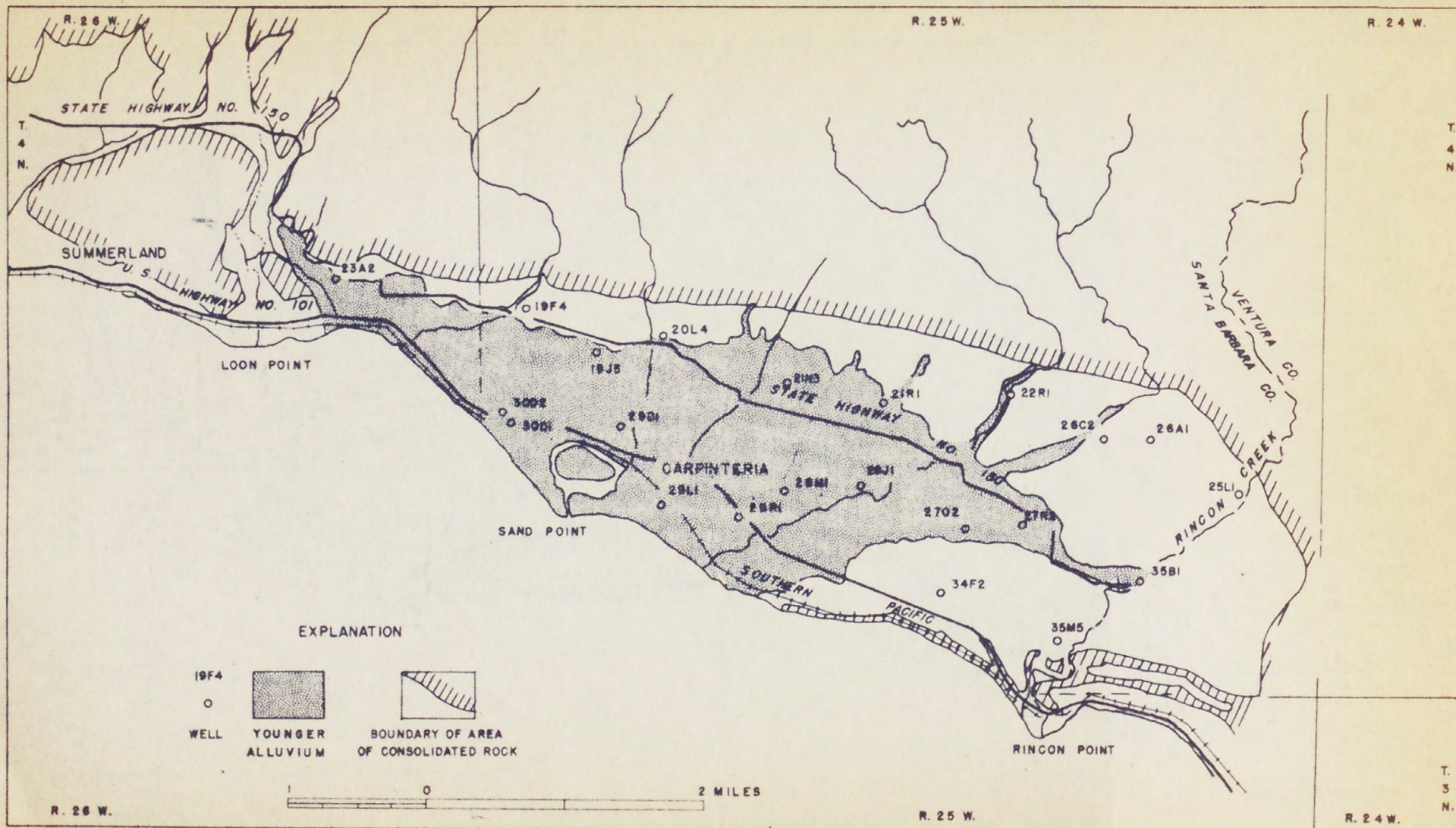
Well :		:Depth :	Use :	Altitude:	Year :	Years:	Highest water level:	Lowest water level:	
No. :	Owner or user	:(feet):		:(feet) :	first :	of :	Date :	Date :	Water :
:		:	:	:	:measured:	record:	No-Yr :	Mo-Yr :	level :
T. 10 N., R. 27 W.									
11A2	Walc Smith	533	Unknown	1,980	1956	3	5-58	22.14	11-58 27.88
C1	Do	378	Dm, Ir	1,963	1942	13	4-58	19.01	9-54 41.38
H1	Do	Unknown	Ir	1,995	1954	5	2-54	21.14	1-58 56.88
12R1	Wm. Kirschenmann Estate	131	Dm, Ir	2,036	1941	18	4-42	38.58	9-56 62.72



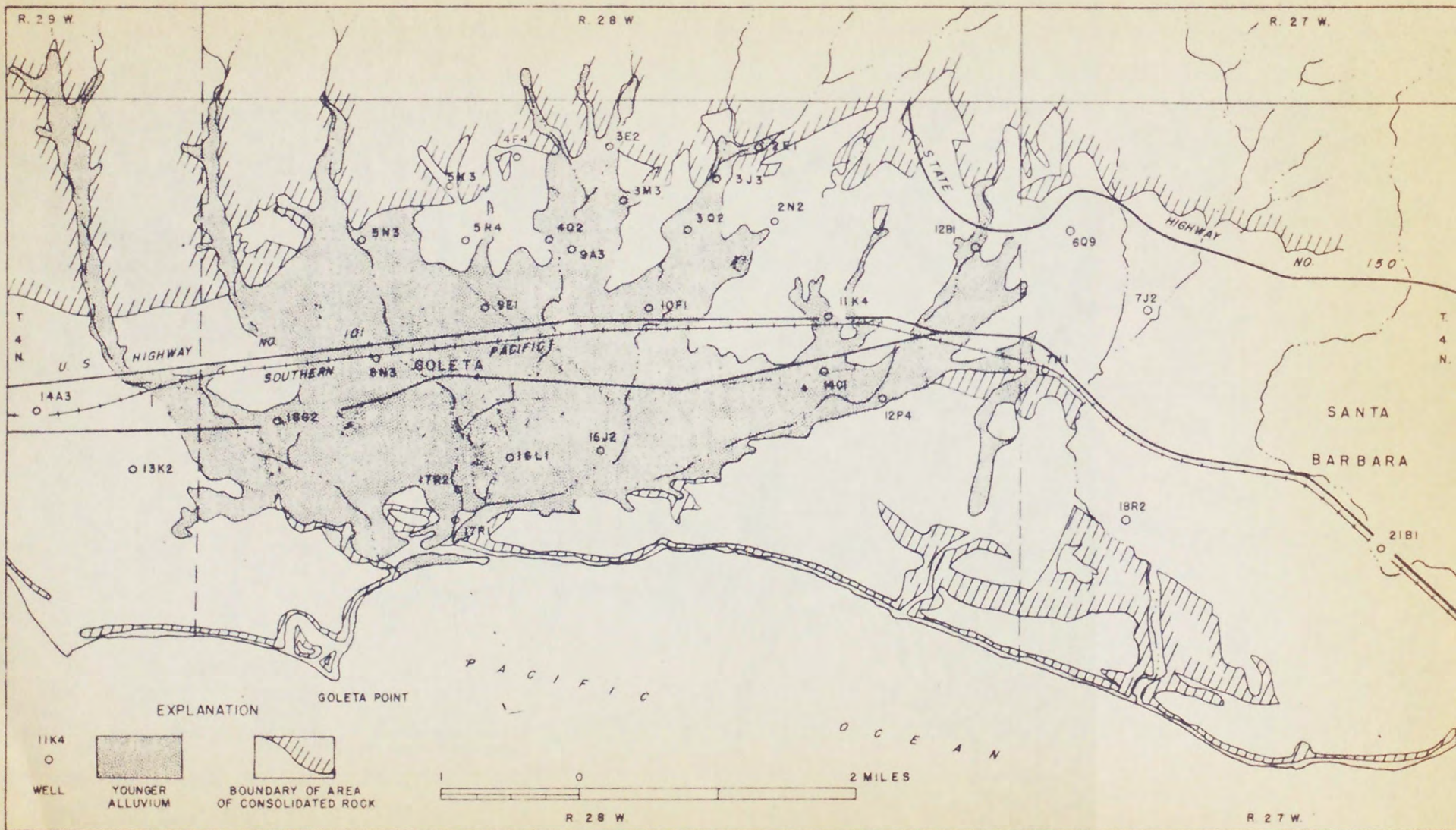
WATER-LEVEL FLUCTUATIONS IN SIX WELLS IN SANTA BARBARA COUNTY,
CALIFORNIA, AND PRECIPITATION BY WATER YEARS AT SANTA BARBARA



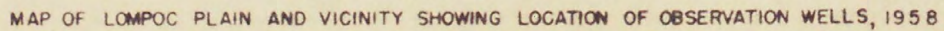
FLUCTUATIONS OF WATER LEVELS IN FOUR WELLS IN SANTA BARBARA COUNTY, CALIFORNIA,
AND PRECIPITATION BY WATER YEARS AT OZENA AND SANTA MARIA AND CUMULATIVE
DEPARTURE OF PRECIPITATION FROM NORMAL AT SANTA MARIA

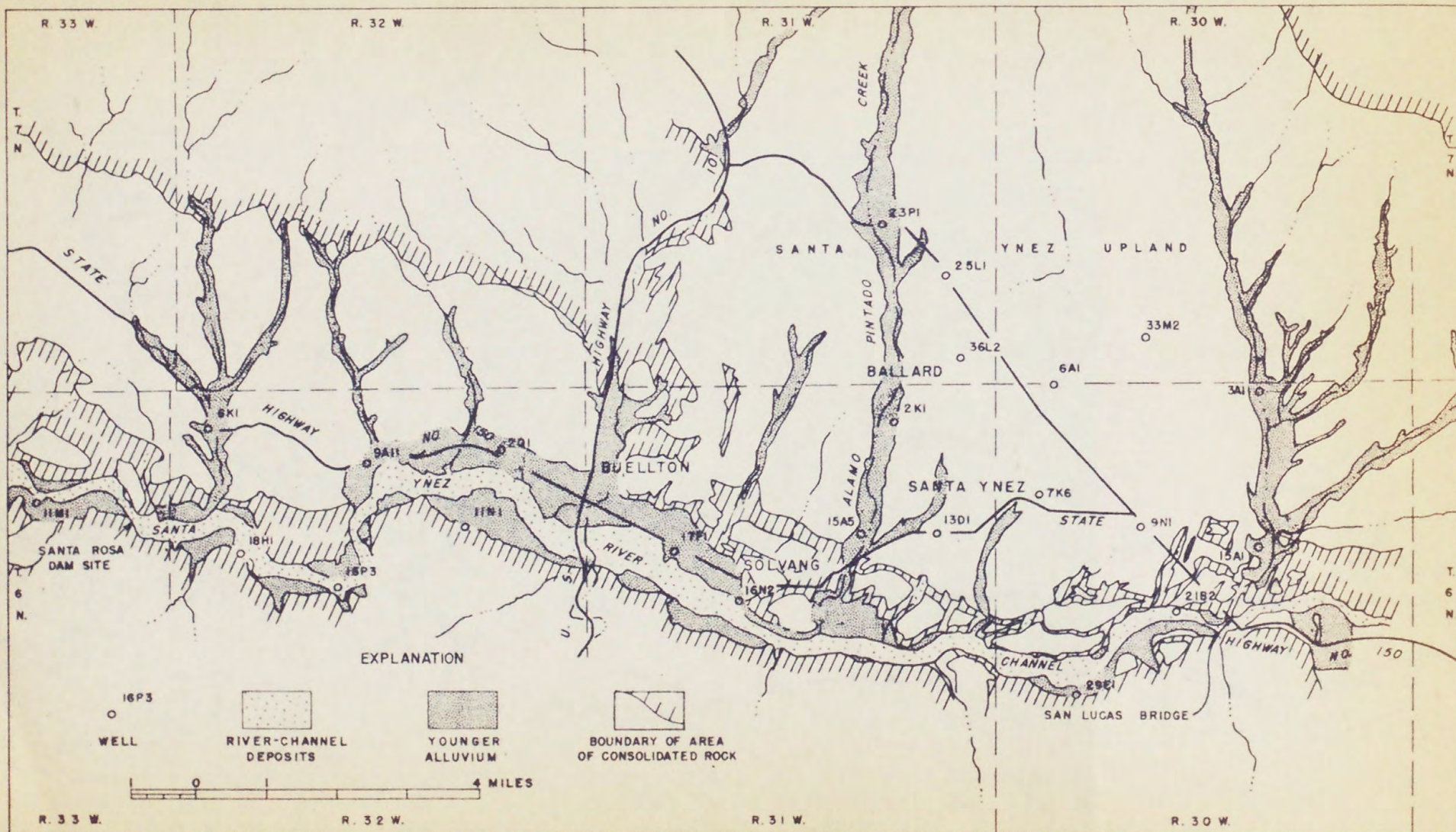


MAP OF CARPINTERIA BASIN SHOWING LOCATION OF OBSERVATION WELLS, 1958



MAP OF GOLETA BASIN SHOWING LOCATION OF OBSERVATION WELLS, 1958

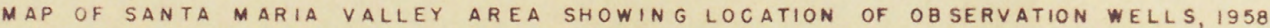


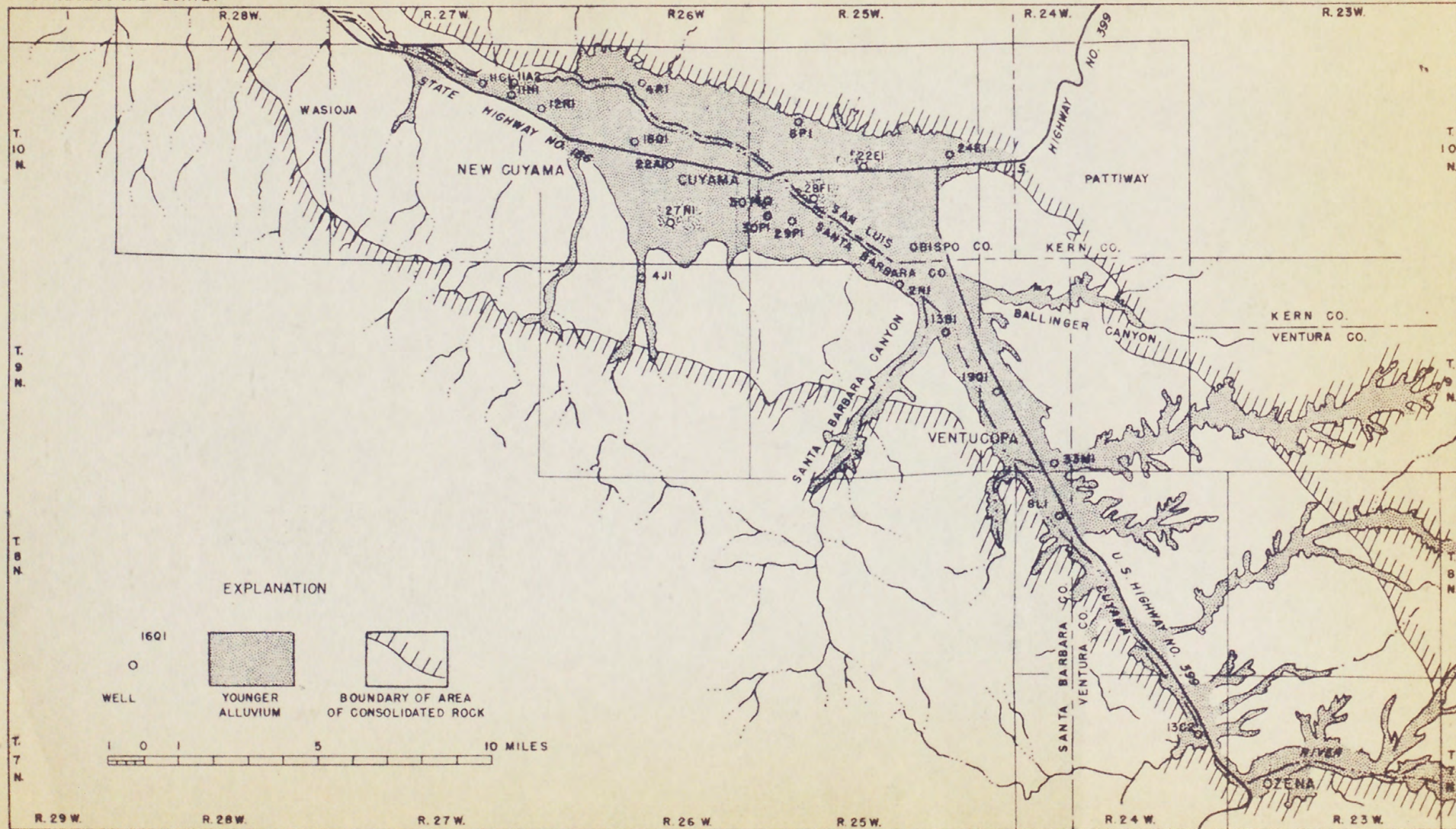


MAP OF SANTA YNEZ UPLAND AND ALLUVIAL DEPOSITS BETWEEN SAN LUCAS BRIDGE AND SANTA ROSA DAM SITE SHOWING LOCATION OF OBSERVATION WELLS, 1958



MAP OF SAN ANTONIO VALLEY SHOWING LOCATION OF OBSERVATION WELLS, 1958





MAP OF CUYAMA VALLEY AND VICINITY SHOWING LOCATION OF OBSERVATION WELLS, 1958

PAMPHLET BINDERS

This is No. 1528

also carried in stock in the following sizes

	HIGH		WIDE	THICKNESS		HIGH		WIDE	THICKNESS
1523	9 inches	7	inches	$\frac{3}{8}$ inch	1529	12	inches	10	inches $\frac{1}{8}$ inch
1524	10	"	7	" "	1530	12	"	9 $\frac{1}{8}$	" "
1525	9	"	6	" "	1532	13	"	10	" "
1526	9 $\frac{1}{2}$	"	7 $\frac{1}{8}$	" "	1533	14	"	11	" "
1527	10 $\frac{1}{2}$	"	7 $\frac{3}{8}$	" "	1534	16	"	12	" "
1528	11	"	8	" "					

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