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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

GOODWIN J. KNIGHT, Governor
FRANK B. DURKEE, Director of Public Works
A. D. EDMONSTON, State Engineer

BULLETIN No. 39-S

SOUTHERN CALIFORNIA AREA INVESTIGATION

GROUND WATER LEVELS AND PRECIPITATION RECORDS

IN

LOS ANGELES, SAN GABRIEL, AND SANTA ANA RIVER BASINS AND ANTELOPE VALLEY

AND

WATER SUPPLY SUMMARY

FOR SOUTHERN PORTION OF CALIFORNIA

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PLATES

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ACKNOWLEDGMENT

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San Bernardino County Flood Control District

San Bernardino Valley Water Conservation District

The Metropolitan Water District of Southern California

United States Geological Survey

United States Weather Bureau

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ORGANIZATION

STATE DEPARTMENT OF PUBLIC WORKS
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GROUND WATER LEVELS AND PRECIPITATION RECORDS

in

LOS ANGELES, SAN GABRIEL, AND SANTA ANA RIVER BASINS AND ANTELOPE VALLEY

and

WATER SUPPLY SUMMARY FOR SOUTHERN PORTION OF CALIFORNIA

1950

CHAPTER I. INTRODUCTION

This report is the twentieth of a series begun in 1932, in recognition of the need for compiling basic data for use in the continuing study of water problems in the southern portion of California. The water problems involved were accentuated during the period covered by the report by subnormal precipitation for the sixth consecutive season. The deficiency in rainfall at Los Angeles for the six-year period from 1944-45 through 1949-50 was 30.87 inches, as compared to a mean seasonal rainfall of 15.43 inches. This paucity of rainfall has been reflected in subnormal runoff in streams of the area. The flow of the San Gabriel River near Azusa was only 23.1 per cent of the long-time mean during 1949-50.

This extended drought, accompanied by a continued, rapid increase in population, has created a serious water supply shortage in areas where imported supplies are not available. Difficulties in providing sufficient water for municipal use were experienced by the Cities of Santa Barbara, Ventura, and San Diego. Reservoirs of the latter city had been depleted to about 19 per cent of their total capacity by October 1, 1950, and storage in the majority of the other conservation reservoirs in the South Coastal Area was dangerously low.

Importations were continued from Owens River and Mono Basin by City of Los Angeles, and from Colorado River by The Metropolitan Water District of Southern California. Approximately 164,000 acre-feet of Colorado

River water were delivered during the water year 1949-50, which was the maximum annual amount delivered through that date and an increase of slightly more than 13,000 acre-feet over the previous year. During the water year 1949-50, the San Diego Aqueduct operated at full capacity, delivering approximately 70,000 acre-feet of Colorado River water to the San Diego County Water Authority. The service area of the Metropolitan Water District was enlarged in November, 1950, with the annexation of the Pomona Valley Municipal Water District, comprising an area of 84,500 acres.

Generally, ground water levels have continued to decline over the southern portion of the State at an alarming rate, with levels in many of the major ground water basins being at a record low. Sea water continued to intrude into many of the coastal ground water basins where ground water levels were below sea level.

Authorization

The Legislature, by Chapter 832, Statutes of 1929, requested that exploration and investigation be conducted to formulate plans for the conservation, development, and utilization of the water resources of California. One of the reports prepared by the Division of Water Resources under this Chapter was Bulletin No. 32 published in 1930. This bulletin entitled "South Coastal Basin", was a progress report consisting of articles by the technical heads of leading public agencies concerned with water problems in the area. As a result of the recommendation made in Bulletin No. 32 that further hydrologic investigations be made, the Division of Water Resources was authorized to undertake a continuing study now known as the Southern California Area Investigation. This report is one of a series issued under that investigation.

Prior Reports

As part of the investigation, Bulletin No. 39 was published in 1932, containing "Records of Ground Water Levels at Wells". Since 1932, water levels at selected wells have been published annually in Bulletins Nos. 39-A through

39-R. The locations and descriptions of the wells referred to in the earlier bulletins were published in Bulletin No. 39, and are shown on Maps 1 through 8, accompanying that bulletin. The locations and descriptions of wells in the San Jacinto and Antelope Valleys were first published in Bulletin No. 39-J, and are shown on Maps 9 through 11 included in that bulletin.

Seasonal precipitation data from United States Weater Bureau records, as well as from records at stations not included in official publications of that agency, were first published in Bulletin 39-A and have been incorporated in all subsequent publications of the series. Monthly records from a few key United States Weather Bureau stations were first published in Bulletin No. 39-D. A map showing the location of precipitation stations for which seasonal records are published was included in Bulletin No. 39-A.

Numerous other bulletins have been published by the Division of Water Resources from 1930 to date which include data on water use, ground water levels, quality of water, value and cost of water for irrigation, water losses and evaporation data, underground geology, and evaluation of overdraft on ground water basins in southern California. These bulletins include:

California State Department of Public Works, Division of Water Resources. "South Coastal Basin, A Symposium". Bulletin No. 32. 1930.

California State Department of Public Works, Division of Water Resources. "Rainfall Penetration and Consumptive Use of Water in Santa Ana River Valley and Coastal Plain". Bulletin No. 33. 1930.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Quality of Irrigation Waters". Bulletin No. 40. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters". Bulletin No. 40-A. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Value and Cost of Water for Irrigation in Coastal Plain of Southern California". Bulletin No. 43. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Water Losses Under Natural Conditions from Wet Areas in Southern California". Bulletin No. 44. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Geology and Ground Water Storage Capacity of Valley Fill". Bulletin No. 45. 1934.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Overdraft on Ground Water Basins". Bulletin No. 53. 1947.

California State Department of Public Works, Division of Water Resources. "Southern California Area Investigation, Memorandum Report on Water Conditions in Antelope Valley in Kern, Los Angeles and San Bernardino Counties". February, 1955.

Scope of Report

At its inception, the Southern California Area Investigation was concerned with the problems of water supply in the Santa Ana, San Gabriel, and Los Angeles River Valleys and the West and South Coastal Plains, and early reports of the Bulletin No. 39 series were limited to publication of records of ground water levels in those areas. Subsequently, precipitation records were added and the area extended to include the San Jacinto and Antelope Valleys. In 1948, the bulletin was expanded to include a general water supply summary for the southern portion of the State, containing information on precipitation, runoff, reservoir storage, importations, water quality, and changes in ground water levels. This report includes, in addition to a water supply summary for the period October 1, 1949, through September 30, 1950 a compilation of precipitation records for the period

July 1, 1949, through June 30, 1950, and records of ground water levels for the 1950 calendar year.

The data are presented under four chapter headings as follows: (1) Introduction, (2) Water Supply, (3) Records of Ground Water Levels, and (4) Precipitation Records. Fifteen tables summarizing water supply data are included with the text of Chapter II, and two plates pertaining to ground water data are bound at the end of the report.

CHAPTER II. WATER SUPPLY

Precipitation

The primary source of replenishment of the ground water basins in southern California is direct precipitation on overlying lands and percolation of runoff from precipitation on tributary hills and mountains. The amount of precipitation varies greatly from year to year, resulting in variations in the accretions to the ground water. Near Riverside where the Santa Ana Mountains interfere with the movement of air from the ocean toward the mountains to the north, mean seasonal depth of precipitation is only 11 inches, as compared with 24 inches at about the same elevation in the San Gabriel Valley, where there is relatively little interference from the low hills which bound it on the south. Mean seasonal depth of precipitation increases from about 10 to 15 inches along the coast to 30 to 45 inches near the crest of the mountains.

Precipitation indices for selected areas in southern California during the period July, 1949, through June, 1950, are shown in Table 1. These indices are arithmetical averages of the precipitation indices for several stations within the area, and are based on the 50-year mean for 1897-98 through 1946-47. No major storms occurred during the year. Seasonal precipitation records for individual stations are tabulated in Chapter IV.

TABLE 1

PRECIPITATION INDICES FOR SELECTED AREAS
IN SOUTHERN CALIFORNIA FOR 1949-50

Area	: Index
Bear Valley	72
Chino	75
Coastal Plain	70
Riverside	64
San Bernardino	70
San Fernando	60
San Gabriel Valley	71
San Diego*	82

* United States Weather Bureau Station, Lindbergh Field, San Diego.

Runoff

Runoff from mountain and hill areas, as stated, is a major source of replenishment of the ground water supply. A large portion of this runoff is impounded behind dams, to be later released to percolate to the underground basins, where it remains in storage for future use. Some of the runoff which occurs from precipitation on the valley floor areas also percolates to the ground water supply, although the major portion of such runoff wastes to the ocean.

The runoff in southern California in 1949-50 was below normal for the sixth consecutive season. Runoff in selected rivers and creeks in southern California is shown in Table 2, together with a comparison of mean, maximum, and minimum runoff for each station.

TABLE 2

ESTIMATED SEASONAL NATURAL RUNOFF AT SELECTED STATIONS IN SOUTHERN CALIFORNIA

In Acre-Feet

Station	Period of record	1949-50	Mean[a]	Maximum[b]		Minimum[b]	
				Season	Amount	Season	Amount
Matilija Creek at Mitilija	1927 to date	3,680	28,200	1940-41	125,300	1930-31	1,950
Sespe Creek near Fillmore	1934 to date	16,890	93,900	1940-41	376,000	1898-99	5,000
Piru Creek near Piru	1911-13; 1927 to date	7,270	53,700	1940-41	226,000	1898-99	900
Arroyo Seco near Pasadena	1910 to date	1,520	7,300	1921-22	25,400	1898-99	160
San Gabriel River near Azusa	1894 to date	28,220	122,000	1921-22	410,000	1898-99	9,620
Santa Ana River near Mentone	1896 to date	23,400	70,600	1915-16	280,000	1898-99	16,000
San Jacinto River near San Jacinto	1920 to date	7,600	28,900	1915-16	124,000	1933-34	3,220
Santa Ysabel Creek near Mesa Grande	1912-28; 1936 to date	1,650	22,200[c]	1915-16	95,200	1947-48	1,200

a. Mean for period 1894-95 through 1946-47 except as noted.
b. Indicated maxima and minima are recorded or estimated values for period 1894-95 to date.
c. Mean for periods from 1912-13 through 1927-28, and from 1936-37 through 1946-47.

Storage in Surface Reservoirs

The amount of water in storage in surface reservoirs at the end of the water year 1949-50 was, in most cases, far less than the total capacity of the reservoirs. Water stored in Lake Henshaw, built in 1923, amounted to only three per cent of the total reservoir capacity, and the amount in storage in other reservoirs, not impounding imported water, was generally less than 20 per cent of the total storage capacity. Table 3 shows the amounts of storage in 21 reservoirs in, or supplying water to, southern California on September 30, 1950.

TABLE 3

STORAGE IN SELECTED SURFACE RESERVOIRS IN, OR SUPPLYING WATER TO, SOUTHERN CALIFORNIA

Name and location of reservoir	Capacity in acre-feet	Water in storage on September 30, 1950	
		In acre-feet	In per cent of total capacity
Grant Lake, Mono County	47,500	18,490	39
Lake Crowley, Mono County	183,700	119,800	65
Haiwee Reservoir, Inyo County	60,000	28,790	48
Bouquet Reservoir, Los Angeles County	36,200	32,950	91
Lake Mead, Colorado River	29,827,000	19,738,000	66
Santiago Reservoir, Orange County	25,000	2,240	9
Bear Valley Reservoir, San Bernardino County	72,400	11,500	16
Lake Hemet, Riverside County	14,000	1,450	10
Vail Reservoir, Riverside County	49,520	2,920	6
Lake Henshaw, San Diego County	203,580	5,880	3
San Dieguito Lake, San Diego County	1,130	880	78
Lake Hodges, San Diego County	33,550	3,530	11
San Vicente Lake, San Diego County	90,230	48,500	54
El Capitan Lake, San Diego County	116,450	9,660	8
Murray Lake, San Diego County	6,080	4,490	74
Lake Loveland, San Diego County	27,700	850	3
Sweetwater Reservoir, San Diego County	27,690	3,550	13
Morena Lake, San Diego County	50,210	30	0
Barrett Lake, San Diego County	42,800	1,200	3
Upper Otay Lake, San Diego County	2,560	150	6
Lower Otay Lake, San Diego County	56,330	7,550	13

Importations

Owens River and Mono Basin

The Los Angeles Department of Water and Power obtains a large portion of the water supplied to the City of Los Angeles from Owens Valley and Mono Basin. Development of this supply was initiated many years ago when it became apparent that local supplies would not be sufficient to meet the demands of increasing population and industrial expansion. The City first obtained water from Owens Valley in 1913 and from Mono Basin in 1940. Water is stored in Grant Lake, Lake Crowley, and Haiwee Reservoirs in Mono and Inyo Counties and brought to Los Angeles through the 233-mile long Los Angeles Aqueduct which terminates in San Fernando Valley. During 1949-50 305,400 acre-feet of water, or 75 per cent of the total water imported, purchased, or produced locally by the City in that year, were imported from Owens River and Mono Basin.

Colorado River

Even with water from Owens River and Mono Basin, it became apparent in the early twenties that southern California would need more water. For this additional supply, attention was turned to the largest stream in the southwest, the Colorado River. In 1923, City of Los Angeles commenced a preliminary study of the River as a source of supply, and a few years later preliminary surveys were conducted. In 1928, The Metropolitan Water District of Southern California was formed, and in 1930 it took over all engineering and other work from the City. Construction of the Colorado River Aqueduct began in 1932, and Pasadena received the first delivery of softened Colorado River water in June, 1941. In the seasonal year 1949-50, a total of 65,600 acre-feet of softened and 98,200 acre-feet of unsoftened water were delivered by the Metropolitan Water District, which at that time consisted of 16 cities and districts. Of the 98,200 acre-feet of unsoftened water, 70,300 acre-feet

were supplied to the San Diego County Water Authority. Approximately 183,200 acre-feet, representing about 15 per cent of the 1,212,000 acre-foot per year right of The Metropolitan Water District of Southern California to waters of the Colorado River, were diverted at Lake Havasu.

Quality of Water

The Division of Water Resources has, since 1931, conducted a program of sampling and analyzing surface and ground waters in the southern California area. Most of these samples have been analyzed in the laboratory of the University of California, Citrus Experiment Station, in Riverside.

In general, ground and surface water mineral quality remained suitable for domestic, industrial, and agricultural uses in 1950, except in certain coastal ground water basins where sea-water intrusion had occurred. If, over a long period of time, conditions are such that extractions from a basin bordering the ocean exceed net recharge to the basin or the aquifer's water transmitting capacity under the existing hydraulic gradient, a landward hydraulic gradient may be formed and the possibility of sea-water intrusion exists. The intrusion of sea water into certain coastal aquifers has resulted in the degradation of ground water quality and, in some cases, the abandonment of wells valued at thousands of dollars. Evidence of sea-water intrusion exists in the following ground water basins:

1. Oxnard Plain Basin
2. West Coast Basin
3. East Coastal Plain Pressure Area
4. Santa Margarita Valley
5. San Luis Rey Valley
6. Mission Valley

Analyses of samples from key wells and surface sampling points are shown in Tables 4 and 5.

TABLE 4

MINERAL ANALYSES OF SURFACE WATER
AT SELECTED STATIONS IN SOUTHERN CALIFORNIA

Location number	Station	Date sampled	EC x 10^6 at 25°C	Mineral constituents, in parts per million								Total hardness as $CaCO_3$, in ppm	Per cent Na
				Ca	Mg	Na+K	HCO_3	SO_4	Cl	NO_3	B		
S7766	Big Rock Creek SE. of Little Rock, at Pear Blossom Hwy.	8- 8-50	400	53	19	14	232	13	4	0.5	0.04	211	13
S12402	Willow Springs W. of Rosamond near 90th St. W.	8- 9-50	470	46	9	64	147	89	20	3	0.08	152	48
S2778-I-10	Los Angeles River at Washington Blvd.	12- 6-50	---	94	36	289	288*	236	340	---	---	385	62
S2947-I-13	San Gabriel River SW. of El Monte and 0.5 mile upstream from Whittier Narrows Dam	3- 2-50	304	50	8	16	177	27	4	3	0.15	158	18
S18260-G-32	Mill Creek E. of Mentone, at Southern California Edison Company Plant No. 2	8-23-50	250	38	9	12	140	25	0	1	0.0	132	16
S18999-G-31	Santa Ana River NE. of Mentone, at head of North Fork Ditch and Redlands Canal, near powerhouse	8-28-50	220	25	11	17	134	9	5	1	0.03	108	25

MINERAL ANALYSES OF SURFACE WATER
AT SELECTED STATIONS IN SOUTHERN CALIFORNIA
(continued)

Location number	Station	Date sampled	$EC \times 10^6$ at 25°C	Mineral constituents, in parts per million								Total hardness as $CaCO_3$, in ppm	Per cent Na
				Ca	Mg	Na+K	HCO_3	SO_4	Cl	NO_3	B		
S18001-G-28	Warm Creek San Bernardino, at "E" St.	8-23-50	480	67	13	28	229	58	14	3	0.06	221	22
S15822-L-20	Santa Ana River W. of Corona, at Orange-Riverside County line	8-28-50	870	88	24	83	247	161	82	12	0.15	319	36
	Tia Juana River W. of San Ysidro at Nestor Bridge	2-14-50	2,080	119	53	300	344	136	529	---	---	514	56

* Does not include 33 ppm CO_3.

TABLE 5

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA

Well number	Owner and location	Date sampled	EC x 10^6 at 25°C	Mineral constituents, in parts per million								Total hardness as $CaCO_3$, in ppm	Per cent Na
				Ca	Mg	Na+K	HCO_3	SO_4	Cl	NO_3	B		
	Antelope Valley												
7N/11W-16A	Hoelzle Ranch Five miles E. of Lancaster, and 1,850 feet W. of 50th St. E. and 275 feet S. of Ave. I	8- 9-50	380	47	10	5	140	44	23	4	0.02	158	6
	Oxnard Forebay Basin												
2N/22W-26F1	Edmonson Ranch Two miles NE. of Oxnard, and 100 feet W. of Ditch Road and 900 feet NE. of U.S. Highway No. 101	11-10-50	---	305	106	168	350	1097	80	5	1.06	1197	21
	Oxnard Plain Basin												
1N/22W-26R1	Chase Dairy Six miles SE. of Oxnard, and 800 feet W. of Casper Rd. and 0.85 mile S. of Hueneme Rd.	5-31-50	---	119	36	89	270	353	39	--	0.63	445	30
	San Fernando Basin												
A-90q-E-8	Los Angeles Department of Water and Power, Verdugo No. 4 well. Two miles SW. of Burbank, and 105 feet W. of Catalina St. and 127 feet S. of Clark Ave.	1-11-50	495	55	9	35	205	58	18	2	0.22	176	27

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA
(continued)

Well number	Owner and location	Date sampled	EC x 10^6 at 25°C	Mineral constituents, in parts per million								Total hardness as $CaCO_3$, in ppm	Per cent Na
				Ca	Mg	Na+K	HCO_3	SO_4	Cl	NO_3	B		
	Raymond Basin Area												
C-16-F-11	City of Pasadena Pasadena; 142 feet E. of Mentone Ave. and 118 feet N. of Manzanita St.	8-30-50	---	45	15	26	212	28	14	8	—	173	25
	Main San Gabriel Basin												
C-2l4k-G-13	City of Arcadia Longley No. 2 well, Arcadia; 72 feet S. of Palm Dr. and 60 feet W. of El Monte Ave.	8-31-50	—	88	27	0[a]	212	78	16	Trace	Trace	331	0
	Montebello Forebay Area												
C-8l4w-J-12	A. F. McDonald Three miles W. of Whittier, and 135 feet E. of Rosemead Blvd. and 0.2 mile S. of Washington Blvd.	8-24-50	---	116	31	71[a]	160[b]	337	24	Trace	Trace	417	27
	Central Coastal Plain Pressure Area												
C-872w-K-11	Mrs. Jones Three miles W. of Downey; and 100 feet S. of Imperial Hwy. and 180 feet W. of Garfield Blvd.	6-12-50	---	72	31	59[a]	256	199	14	None	Trace	307	29

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA
(continued)

Well number	Owner and location	Date sampled	ECx10^6 at 25°C	Mineral constituents, in parts per million								Total hardness as $CaCO_3$, in ppm	Per cent Na
				Ca	Mg	Na+K	HCO_3	SO_4	Cl	NO_3	B		
	West Coast Basin												
B-120b-N-10	Richfield Oil Co. Four miles NW. of Long Beach, and 1,450 feet N. and 350 feet W. of intersection of P.E.R.R. and Sepulveda Blvd.	5- 9-50	348	28	0	54	181	1	27	0	---	70	63
	Chino Basin												
D-1029-H-23	Nando Miglietta Seven miles E. of Ontario, and 300 feet S. of Slover Ave. and 600 feet E. of Wineville Ave.	12- 4-50	441	47	10	28	220	2	33	12	0.0	160	28
	Bunker Hill Basin												
E-26a-F-27	W. D. Anderson San Bernardino; 128 feet N. of 19th St. and 240 feet W. of "D" St.	12-18-50	419	40	11	28	163	54	8	9	0.16	145	30
	Santa Ana Forebay Area												
C-1058d-M-17	Santa Ana Valley Irrigation Co. well No. 19, three miles E. of Anaheim, and 470 feet N. and 200 feet W. of intersection of Batavia St. and Fletcher Rd.	9-2 -50	700	79	15	53	238	91	50	6	0.08	258	31

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA
(continued)

Well number	Owner and location	Date sampled	EC x 10^6 at 25°C	Mineral constituents, in parts per million								Total hardness as $CaCO_3$, in ppm	Per cent Na
				Ca	Mg	Na+K	HCO_3	SO_4	Cl	NO_3	B		
East Coastal Plain Pressure Area													
C-12$\frac{1}{4}$1b-Q-16	Santa Ana Heights Water Co. Four miles S. of Santa Ana, and 0.4 mile W. of Newport Blvd. and 100 feet S. of Paularino Ave.	9-22-50	350	3	4	91	207	11	18	20	0.24	25	84
Tia Juana Basin													
19S/2W-4A5	California Water and Telephone Co. Three miles W. of San Ysidro, and 720 feet W. of National Ave. and 1,500 feet S. of Sunset Ave.	7-27-50	2,010	102	50	253	302	148	434	0	—	460	54

a. Sodium constituent determined by computing difference between sum of anions and cations expressed in equivalent parts per million.
b. Includes small equivalent quantity of carbonate (CO_3).

Changes in Ground Water Levels

The elevations of ground water levels in some basins reached record lows in 1950 and remained below sea level in several coastal basins. Changes in ground water level elevations between the fall of 1949 and the fall of 1950, and maximum and minimum water level elevations observed during the period of record at selected wells are presented in Tables 6 through 15. Plate 1 shows the locations within ground water basins of selected wells for which fluctuations of ground water levels are shown on Plate 2. Presented herein is a brief summary of ground water conditions in certain basins in the Antelope Valley and South Coastal Area.

Antelope Valley

Ground water levels have steadily declined in Antelope Valley for the past quarter century, indicating that net extractions have continuously exceeded the replenishment of the ground water supply. Observed depths to ground water increased an average of five feet between the fall of 1949 and the fall of 1950, with levels in some areas being as much as 270 feet below ground surface. Table 6 presents changes in ground water level elevations at 19 wells.

TABLE 6

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN ANTELOPE VALLEY

In Feet

Well numbers		R.P.	Beginning	Water level elevations		Change in	Date and extreme ground water level elevations of record	
Location	Bulletin No. 39-J	elevation	of record	Fall 1949	Fall 1950	elevation	Maximum	Minimum
8826A	5N/10W- 7A	2,817	1938	2,667.2	2,674.8	+ 7.6	3-15-45 2,699.4	11-15-49 2,667.2
7700	5N/10W-26A	3,155	1940	3,108.1	3,103.3	- 4.8	3-15-45 3,112.1	11-13-50 3,103.3
8787	5N/11W-10A	2,836	1927	2,735.9	2,733.1	- 2.8	7-28-44 2,799.1	8-13-38 2,690.5
10338	6N/ 8W-18A	2,725	1939	2,563.0	2,562.5	- 0.5	11-18-39 2,566.0	9- 7-45 2,562.5
8934	6N/ 9W-31A	2,832	1940	2,796.6	2,792.8	- 3.8	5-15-44 2,823.0	11-25-40 2,791.6
8831	6N/10W-20A	2,637.6	1940	2,440.4	2,427.1	-13.3	3-14-45 2,501.6	10-25-50 2,427.1
8690	6N/12W-24A	2,587	1927	2,324.8	2,316.2	- 8.6	12- 5-28 2,399.0	9-13-50 2,316.2
9897	6N/13W-12A	2,607.5	1940	2,357.7	2,356.2	- 1.5	5-31-40 2,373.8	11-29-50 2,356.2
10101	7N/11W-24A	2,433	1932	2,275.2	2,269.4	- 5.8	4- 8-32 2,359.6	10-25-50 2,269.4
11259B	7N/12W-15C	2,348.5	Prior to 1924	2,275.2	2,269.5	- 5.7	Prior to 1924 2,356.5	7-26-50 2,269.5
11119	7N/13W-17A	2,421.7	1937	2,285.1	2,282.0	- 3.1	3- 8-39 2,336.1	11-28-50 2,282.0
9864A	7N/13W-35A	2,443.6	1937	2,243.0	2,230.8	-12.2	3- 8-39 2,313.8	11-29-50 2,230.8
11440B	8N/10W- 8C	2,318.6	1947	2,279.8	2,281.0	+ 1.2	2- 2-48 2,289.9	11- 6-47 2,277.7
11363B	8N/11W-22A	2,318	1937	2,236.3	2,234.0	- 2.3	3-10-39 2,289.4	11-14-50 2,234.0
11252	8N/12W-22A	2,301.5	1910	2,284.2	2,272.6	-11.6	1910 2,323.0	12- 7-50 2,272.6

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN ANTELOPE VALLEY

In Feet
(continued)

Well numbers: Location	Bulletin No. 39-J	R.P. elevation	Beginning of record	Water level elevations: Fall 1949	Fall 1950	Change in elevation	Date and extreme ground water level elevations of record: Maximum	Minimum
12389	8N/14W-12A	2,472	1940	2,327.1	2,313.6	-13.5	11-24-42 2,358.4	12-13-50 2,313.6
10976	8N/15W-36A	2,786.5	1943	2,700.8	2,698.3	- 2.5	12- 8-47 2,713.0	12-24-50 2,698.3
10791	8N/16W-18A	2,995	1942	2,896.4	2,893.9	- 2.5	7-29-44 2,909.8	11-14-42 2,892.9
12424	9N/13W-20A	2,430	1921	2,339.9	2,336.7	- 3.2	4-29-22 2,394.0	10-24-50 2,336.7

Santa Clara River Valley

Oxnard Plain Basin. The Oxnard Plain Basin is supplied principally by underflow from Oxnard Forebay Basin. Ground water levels in most of the pressure area remained below sea level in 1950, permitting sea-water intrusion, which was first noted in this region in 1932, to continue. Some ground water levels dropped to over 40 feet below sea level, and the observed net ground water level drop occurring between the fall of 1949 and the fall of 1950 was approximately five feet. The trough in the piezometric surface was observed about two to three miles inland from the coast in 1950.

Oxnard Forebay Basin. The Oxnard Forebay Basin is replenished largely by natural percolation in the channel of Santa Clara River and by off-channel water spreading conducted by the Santa Clara Water Conservation District at grounds near Saticoy. In 1950, ground water levels in this

basin dropped to, or approached, the lowest elevations of record. Ground water level observations indicate that about a six-foot net drop occurred in the basin between the fall of 1949 and the fall of 1950.

Observed changes in ground water level elevations in the major ground water basins in Ventura County are presented in Table 7.

TABLE 7

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN VENTURA COUNTY

In Feet

Well numbers		R.P. elevation	Beginning of record	Water level elevations		Change in elevation	Date and extreme ground water level elevations of record	
State	County			Fall 1949	Fall 1950		Maximum	Minimum
Ojai Valley								
4N/22W- 5L1	8-L- 5						4-28-41	10-20-50
4N/22W- 5L8	8-L- 5A	891.7	1924	651.1	622.8	-28.3	841.2	622.8
							4-28-41	10-20-30
4N/23W- 1L1	7-L- 1	787.2	1927	763.4	764.9	+ 1.5	785.1	761.7
Oxnard Plain Basin								
							Flowing spring 1917	9- 1-50
1N/22W- 3F4	9-U- 9	54.5	1916	- 7.5	-16.5	- 9.0	54.5	-16.5
							Flowing 1941	8-18-50
1N/22W-17C1	8-V- 1	20.1	1927	- 7.1	-14.5	- 7.4	16.6	-14.5
							1- 6-28	8- 8-50
1N/22W-23J1	10-V- 4	26.0	1927	-30.7	-33.2	- 2.5	25.8	-33.2
Oxnard Forebay Basin								
							3-17-47	12-13-50
2N/21W- 6P1	11-R- 3	150.2	1930	52.6	47.9	- 4.7	139.1	47.9
2N/22W-23H1	10-S- 4							
2N/22W-23H2	10-S-10						4-26-44	12-27-50
2N/22W-23H3	10-S-15	109.8	1927	15.6	10.0	- 5.6	78.6	10.0
							4-26-44	11-14-50
2N/22W-23Q1	10-S- 6	102.2	1929	9.8	1.1	- 8.7	73.6	1.1
Santa Paula Basin								
							5-12-41	12-26-50
2N/22W- 2R1	10-R- 4	136.8	1923	40.8	38.8	- 2.0	119.5	38.8
							3-20-41	9- 8-30
3N/21W-11E2	13-O- 4	317.1	1929	223.9	226.2	+ 2.3	259.2	211.9

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN VENTURA COUNTY
In Feet
(continued)

Well numbers		R.P.	Beginning	Water level elevations		Change in	Date and extreme ground water level elevations of record	
State	County	elevation	of record	Fall 1949	Fall 1950	elevation	Maximum	Minimum
Fillmore Basin								
3N/20W- 6J1	14-O- 3	307.5	1922	292.2	289.5	- 3.4	1- 9-39 302.8	12-21-50 289.5
4N/20W-36N2	16-N- 5	376.4	1927	351.5	343.8	- 7.7	5- 6-41 379.9	11-22-50 343.8
Piru Basin								
4N/18W-19P1	20-M- 5	665.7	1947	---	472.1	---	1- 2-47 560.7	12-25-50 472.1
4N/19W-25L4	19-N- 6 19-N- 6A	583.0	1927	---	471.2	---	4-26-41 573.4	11-10-31 470.8
Pleasant Valley								
1N/21W-11G1	13-U-21	54.7	1936	-52.2	-56.9	- 4.7	5-20-41 30.8	6-28-50 -56.9
1N/21W-16A1	12-V- 2	29.7	1927	-39.4	-40.2	- 0.8	Flowing 1927 30.2	8-24-50 -40.2
2N/21W-34J1	12-T- 7	83.0	1931	-33.8	-32.9	+ 0.9	3-11-32 40.7	4-16-48 -42.8
Las Posas Valley								
2N/20W-10R1	15-R- 3	370.8	1927	191.4	183.7	- 7.7	1-10-28 309.4	6-15-50 183.7
2N/21W-16R1	12-S- 2	326.9	1927	71.3	65.1	- 6.2	7-15-27 115.1	12-27-50 65.1
Simi Valley								
2N/18W- 8C2	20-R- 6	746.4	1929	714.1	698.4	-15.7	Flowing 1930 746.4	7- 5-50 698.4
2N/18W-12L3	22-R- 5	949.1	1929	760.7	765.9	+ 5.2	11-13-29 826.3	9-19-49 760.7

San Fernando Valley

Ground water levels in the San Fernando Valley continued to drop for the sixth consecutive year, although, as shown on Plate 2, ground water level elevations at some wells were lower in 1931. During the seasonal year 1949-50, the observed average net drop in ground water levels at the wells listed in Table 8 was about three feet.

TABLE 8

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN SAN FERNANDO VALLEY

In Feet

Well numbers		R.P. elevation	Beginning of record	Water level elevations		Change in elevation	Date and extreme ground water level elevations of record	
Serial	Location			Fall 1949	Fall 1950		Maximum	Minimum
			San Fernando Basin					
A-15	4757A	791.2	1920	779.9	781.1	+1.2	6-16-50 782.3	2-25-21 765.9
A-31	4855	903.0	1910	664.0	655.3	-8.7	7-12-44 715.4	12- 8-31 641.9
A-62a	3620	769.9	1922	756.9	756.9	0	2-25-41 766.6	10-10-34 753.3
A-82	3804	633.9	1922	598.8	595.1	-3.7	3-22-44 620.8	2-12-32 594.9
			Verdugo Basin					
A-98	3961	965.2	1931	886.0	881.0	-5.0	10-20-44 941.7	10-20-50 881.0

San Gabriel Valley

Raymond Basin Area. Since 1944, ground water levels underlying

the north portion of the Pasadena Subarea of the Raymond Basin Area have exhibited little change, while water levels at some wells in the southern part of the subarea, near the Raymond fault, have risen over 100 feet. This general lack of lowering of ground water levels is due principally to the increased supply of imported waters for the rapidly expanding development, lack of substantial increase in sewage outflow, and the reduction of ground water extractions by Court decree.

Ground water levels in the Santa Anita Subarea commenced to drop in 1947, attained a record low in 1949, and tended to stabilize during 1950. The net lowering of ground water levels since 1947, as compared to the adjacent Pasadena Subarea, may be attributed to the absence of importations. Relatively small amounts of replenishment and extraction cause large monthly fluctuations of ground water levels due to the limited storage capacity of the basin. This phenomenon is illustrated by the hydrographs of wells Nos. C-99, C-130, and C-130a included on Plate 2.

Main San Gabriel Basin. Ground water levels at well No. C-294a, as shown on Plate 2, have declined from about 325 feet above sea level in 1943 to approximately 258 feet above sea level in 1950, which is about equal to the lowest observed level of record.

Changes in ground water level elevations in selected basins in San Gabriel Valley are presented in Table 9.

TABLE 9

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN SAN GABRIEL VALLEY

In Feet

Well numbers		R.P. elevation	Beginning of record	Water level elevations		Change in elevation	Date and extreme ground water level elevations of record	
Serial	Location			Fall 1949	Fall 1950		Maximum	Minimum
			Raymond Basin Area					
C-16a & b							5- 2-16	10-16-33
C-16	4043A	916.5	1904	659.1	663.0	+ 3.9	767.4	614.0
C-99							2-22-16	9-30-49
C-130a								
C-130	4163	677.0	1900	471.9	476.7	+ 4.8	578.2	470.7
			Main San Gabriel Basin					
							5- 6-16	10-27-50
C-212	2903	283.0	1902	254.0	252.0	- 2.0	273.2	252.0
							8-11-44	12- 8-50
C-241	4177	416.6	1919	274.3	264.3	-10.0	317.0	264.3
C-294							5-19-16	11-14-31
C-294a	3030F	387.7	1903	266.1	258.1	- 8.0	329.1	257.3
							3-29-45	3-31-34
C-312	3055	342.3	1928	265.2	258.5	- 6.7	312.2	252.5
							1919	11-23-33
C-337	4329	657.0	1919	385.8	375.4	-10.4	437.0	362.8
			Glendora Basin					
							8- 1-17	10-28-31
C-405	4355	950	1915	515.0	508.2	- 6.8	652.0	505.0

Coastal Plain, Los Angeles County

Montebello Forebay Area. Since 1947, ground water levels in the Montebello Forebay Area have steadily dropped until, in 1950, depths to ground water at many wells were the greatest of record. The ground water level at well No. C-814, the hydrograph for which is shown on Plate 2,

dropped about 60 feet from 1947 through 1950. The Montebello Forebay Area is replenished largely by natural stream bed percolation in the channels of the Rio Hondo and San Gabriel River and by diversion of water released from upstream dams to the Los Angeles County Flood Control District's Rio Hondo and San Gabriel spreading grounds.

Central Coastal Plain Pressure Area. In this basin, which is supplied from underflow from the Montebello and Los Angeles Forebay Areas, pressure levels remained below sea level in most areas. In some areas this condition has persisted since 1937. In 1895, well No. C-926 was flowing, with an artesian head of 80 feet; but in 1950 the piezometric surface at this well was observed more than 50 feet below sea level, as shown on Plate 2. In recent years, ground water levels in the forebay areas have dropped and ground water extractions have increased in the pressure area, resulting in the steepening of the hydraulic gradient from the forebay areas to the centers of extraction in the pressure area.

West Coast Basin. The piezometric surface in this basin remained below sea level throughout the entire basin encouraging the further intrusion of sea water, which was first observed in the main acquifer in 1913. In 1950, the trough in the piezometric surface was six to nine miles inland from Santa Monica Bay and was more than 80 feet below sea level two miles northeast of Wilmington. The principal fresh water replenishment is underflow from the Central Coastal Plain Pressure Area across the Newport-Inglewood Uplift.

Table 10 presents ground water level elevations at 11 wells in Montebello Forebay Area, Central Coastal Plain Pressure Area, and West Coast Basin for the fall of 1950.

TABLE 10

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN COASTAL PLAIN, LOS ANGELES COUNTY

In Feet

Well numbers		R.P. elevation	Beginning of record	Water level elevations		Change in elevation	Date and extreme ground water level elevations of record	
Serial	Location			Fall 1949	Fall 1950		Maximum	Minimum
Montebello Forebay Area								
C-814 C-801b	1620E	181.7	1904	108.7	99.7	- 9.0	4- 1-44 164.7	10- 1-50 99.7
C-844w	1582M	152.5	1940	79.1	63.2	-15.9	4-27-42 128.7	11- 6-50 63.2
Central Coastal Plain Pressure Area								
B-12n	2626D	87	1931	-81.0	-78.0	+ 3.0	2-15-32 27.0	10-14-48 -86.0
B-51b	1413	140.6	1911	25.7	20.6	- 5.1	1911 115.6	11-29-50 20.6
C-894	1062	61.7	1925	6.9	- 7.8	-14.7	3-11-27 58.2	8-22-50 - 7.8
C-926	936	68.9	1895	-54.0	-51.4	+ 2.6	July 1895 148	9-12-49 -54.0
West Coast Basin								
B-90g	733B	109.1	1927	-27.3	-27.5	- 0.2	12-29-27 0.1	12- 8-50 -27.5
B-102m	793B	50.8	1910	-28.4	-28.0	+ 0.4	1910 24.8	10- 5-49 -28.4
B-115g	858B	35.0	1924	-80.2	-82.8	- 2.6	4-11-24 -10.0	10- 1-50 -82.8
B-120b	868A	20.4	1943	-83.1	-82.8	+ 0.3	3- 1-43 -37.4	8- 1-49 -83.1
B-136	381	8.0	1923	- 6.6	- 9.2	- 2.6	3-20-23 4.0	12-14-50 - 9.2

Upper Santa Ana Valley

Chino Basin. Since 1945, ground water levels at most wells have steadily declined, with some levels dropping below the previously recorded lowest elevation. The water level at well No. D-743z has dropped approximately 40 feet since 1931; however, the level at well No. D-909 has only lowered about 11 feet since that date, presumably due to the proximity of the Santa Ana River, three miles to the south.

Bunker Hill Basin. Ground water levels continued to decline in Bunker Hill Basin, with levels at some wells in 1950 being below the lowest observed previous elevations. The water level at well No. E-109 dropped about 60 feet from 1943 through 1950, as depicted on Plate 2. The average ground water level decline in the Basin from the fall of 1949 to the fall of 1950 was approximately five feet. Table 11 lists elevations of ground water levels at 12 wells in the Upper Santa Ana Valley for the fall of 1949 and the fall of 1950.

TABLE 11

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN UPPER SANTA ANA VALLEY

In Feet

Well numbers		R.P. elevation	Beginning of record	Water level elevations		Change in elevation	Date and extreme ground water level elevations of record	
Serial	Location			Fall 1949	Fall 1950		Maximum	Minimum
			Live Oak Basin					
C-595	4438	1,134.3	1905	961.8	966.9	+ 5.1	11-11-05 987.8	1-25-30 818.8
			Chino Basin					
D-743z	3277A	746.0	1904	647.2	641.6	- 5.6	4-14-05 744.6	8- 3-50 641.6
D-909	16791	659.0	1927	608.7	606.2	- 2.5	4-15-41 636.7	7- 3-50 606.2
D-1044	17804	959.0	1912	769.9	765.9	- 4.0	4-15-24 795.3	10- 2-50 765.9
			Lytle Basin					
D-1188a	18724	1,455.9	1912	1,247.4	1,171.4	-76.0	6-16-16 1,458.2	11-13-50 1,171.4
			Devil Canyon Basin					
E-10	18782	1,412.0	1918	1,248.9	1,235.3	-13.6	3-13-18 1,331.5	10- 2-36 1,228.3
			Bunker Hill Basin					
E-37	18827	1,130.3	1888	1,070.4	1,062.2	- 8.2	1888 1,147.1	10-18-50 1,062.2
E-107b	18075	1,206.9	1900	1,097.3	1,098.4	+ 1.1	3- 2-23 1,171.1	9-29-36 1,091.1
E-109	18080	1,150.2	1892	1,100.7	1,090.4	-10.3	Feb. 1894 1,153.2	12- 2-50 1,094.4
			Yucaipa Basin					
E-136	18228	2,292.6	1927	2,166.0	2,155.1	-10.9	5- 2-27 2,247.4	10- 3-50 2,155.1
			Riverside Basin					
E-75	17964C	921.2	1915	877.4	873.8	- 3.6	6-23-21 905.6	Oct. 1936 851
E-192	17012	846.3	1928	769.5	771.6	+ 2.1	2-28-28 783.8	9-17-34 761.2

Coastal Plain, Orange County

East Coastal Plain Pressure Area. The elevation of the piezometric surface throughout most of this area continues to be below sea level. The trough in the piezometric surface remained about midway between the coast line and the City of Santa Ana, with some levels along the trough being 30 feet below sea level in 1950. Evidence of sea-water intrusion was first observed in this basin in 1927 and the intrusion is continuing, with the farthest inland advance being noted in the Talbert zone in the Santa Ana gap. The replenishment of the pressure area, largely from the Santa Ana Forebay Area, has, in recent years, been less than the extractions from the area and has resulted in a continual drop of ground water levels.

Santa Ana Forebay Area. During 1950, the elevations of ground water levels underlying the Santa Ana Forebay Area dropped below sea level for the first time. Ground water levels in wells Nos. C-1124b, C-1129j, and C-1129m dropped below their lowest previously recorded elevations, declining over 100 feet since 1917, as shown on Plate 2. This forebay area is supplied largely by percolation from the Santa Ana River, including Colorado River water which was first discharged into the river channel in 1949. The changes in ground water level elevations at key wells in the pressure area between the fall of 1949 and the fall of 1950 are presented in Table 12.

TABLE 12

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN
COASTAL PLAIN, ORANGE COUNTY

In Feet

Well numbers		R.P.	Beginning	Water level elevations		Change in	Date and extreme ground water level elevations of record	
Serial	Location	elevation	of record	Fall 1949	Fall 1950	elevation	Maximum	Minimum
			East Coastal Plain Pressure Area					
C-909	1028B	25.4	1903	-30.3	-34.0	-3.7	12-19-24 40.8	8-24-50 -30.3
C-1160e	14484F	85	1941	- 9.0	-11.2	-2.2	1-11-45 28.9	8- 4-50 -11.2
C-1243	13322	40.1	1904	4.3	9.2	+4.9	1904 40.1	8-16-49 4.3
C-1257	13231	14.0	1922	-14.5	-15.3	-0.8	6-29-22 17.6	7-14-50 -15.3
			Santa Ana Forebay Area					
C-1097	15640	335.6	1922	157.6	150.8	-6.8	8-31-22 198.5	1-26-38 140.8
C-1129m	1189B	136.1	1898	- 0.5	- 5.7	-5.2	2-22-1898 112.7	11-16-50 - 5.7
			Irvine Basin					
C-1217a	13451	283.4	1927	1.5	3.1	+1.6	12-12-27 67.4	8-19-49 1.5
			La Habra Basin					
C-968	1746A	350.9	1922	296.6	293.7	-2.9	11-23-43 307.4	2-26-31 280.2

San Jacinto Basin

Ground water levels in most of the basin have declined for seven consecutive years, and water levels underlying the area northwest of Lakeview have exhibited a general downward trend since 1915, as illustrated by the water level fluctuations at well No. 4S/2W-7A shown on Plate 2. Depths to ground water vary from approximately 15 feet near the San Jacinto River, southeast of Moreno, to about 300 feet, southwest of Valle Vista. Natural recharge of the ground water basin by percolation in the San Jacinto River channel is augmented by spreading operations conducted adjacent to the river bed northeast of Valle Vista. Due to the subnormal runoff in the San Jacinto River in 1949-50, only about 90 acre-feet of water were diverted from the river and spread during the year. Ground water level elevations at 15 wells are shown in Table 13.

TABLE 13

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN SAN JACINTO BASIN

In Feet

Well numbers Bulletin No. 39-J	R.P. elevation	Beginning of record	Water level elevations Fall 1949	Water level elevations Fall 1950	Change in elevation	Date and extreme ground water level elevations of record Maximum	Minimum
3S/2W-35A	1,429.2	1921	1,401.3	1,395.3	- 6.0	2-26-24 1,429.0	5-24-49 1,368.9
3S/3W-22A	1,507.0	1906	1,435.6	---	--	4- 7-42 1,467.1	8-12-48 1,425.4
4S/1W-15B	1,492	1915	1,432.6	1,418.8	-13.8	Flowing prior to 6-12-45 1,492	8- 7-50 1,418.8
4S/1W-29B	1,502.0	1921	1,452.5	---	--	3-15-22 1,495.8	6- 9-49 1,452.5
4S/1W-36A	1,608.0	1904	1,492.9	1,474.4	-18.5	Nov. 1915 1,583	1-24-51 1,474.4
4S/2W- 7A	1,445.2	1904	1,349.0	1,345.4	- 3.6	5-28-12 1,417.0	10-31-50 1,345.4
4S/3W-32A & C	1,434.8	1904	1,368.6	1,366.5	- 2.1	6-20-05 1,403.1	5-10-40 1,358.7
4S/4W- 1A & F	1,504.7	1904	1,460.6	1,459.4	- 1.2	5-23-46 1,464.5	5- 5-16 1,456.2
5S/1E-14A	1,890	1939	1,695.4	1,695.1	- 0.3'	4- 8-42 1,854.3	5-26-50 1,695.1
5S/1W- 2I	1,585.1	1905	1,489.5	1,476.4	-13.1	10-18-12 1,530.2	8-25-50 1,476.4
5S/2W-24B	1,499.8	1914	1,454.4	1,452.8	- 1.6	5- 6-16 1,494.7	8-11-48 1,448.6
5S/2W-27E & F	1,476.9	1905	1,437.9	1,434.7	- 3.2	5-22-22 1,463.4	9-17-46 1,433.6
5S/3W- 8A	1,412.4	1940	1,286.3	1,278.1	- 8.2	3-13-42 1,319.9	10-31-50 1,278.1

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN
SAN JACINTO BASIN
In Feet
(continued)

Well numbers Bulletin No. 39-J	R.P. elevation	Beginning of record	Water level elevations Fall 1949	Water level elevations Fall 1950	Change in elevation	Date and extreme ground water level elevations of record Maximum	Date and extreme ground water level elevations of record Minimum
6S/2W- 6B	1,438.5	1940	1,364.8	1,364.9	+ 0.1	1- 8-42 1,382.0	11-17-49 1,364.8
6S/3W- 4A & B	1,438.3	1914	1,373.3	1,370.0	- 3.3	5- 6-16 1,410.3	5-19-50 1,370.0

San Luis Rey Valley

Ground water levels continued to decline throughout the coastal portion of the valley, dropping about three feet since last fall, with some water levels north of Oceanside and southwest of San Luis Rey dropping to 15 feet below sea level in 1950. The intrusion of sea water, first observed in this basin in 1938, continued and has caused the abandonment of several wells in recent years. Table 14 lists ground water level elevations at certain key wells.

TABLE 14

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN
SAN LUIS REY VALLEY

In Feet

Well number State	R.P. elevation	Beginning of record	Water level elevations Fall 1949	Water level elevations Fall 1950	Change in elevation	Date and extreme ground water levels elevations of record Maximum	Minimum
10S/2W- 6F1	280.9	1937	268.4	269.9	+1.5	4-14-41 276.3	9-15-49 268.4
10S/3W-11G1	240.1	1939	225.7	225.6	-0.1	3-17-41 232.6	1- 5-48 224.2
10S/3W-20P1	162.3	1920	149.0	147.0	-2.0	3-17-41 156.3	10- 9-50 147.0
11S/4W- 5G1	59.6	1939	34.6	29.0	-5.6	4-14-41 55.5	10-12-50 29.0
11S/4W- 9E1	68.6	1940	29.4	23.4	-6.0	4-14-41 62.1	11-13-50 23.4
11S/5W-13P2	24.4	1937	- 3.5	- 3.6	-0.1	4-14-41 16.9	10-12-50 - 3.6

Tia Juana Basin

Ground water levels continued to decline in this basin, with some levels dropping below sea level in the western portion of the basin in 1950. Data in Table 15 indicate that ground water levels have dropped an average of about one foot since the fall of 1949.

TABLE 15

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN
TIA JUANA BASIN

In Feet

Well numbers State	Tia Juana reference	R.P. elevation	Beginning of record	Water level elevations Fall 1949	Water level elevations Fall 1950	Change in elevation	Date and extreme ground water level elevations of record Maximum	Minimum
18S/2W-33R3	R	24.6	1936	4.7	4.6	-0.1	3- 2-44 21.9	9-26-50 4.6
18S/2W-32P2	157	6.2	1921	0.5	0.2	-0.3	4-16-41 5.1	10-17-34 -0.2
19S/2W- 1J3	4	57.2	1924	47.9	47.3	-0.6	3-15-41 52.9	12- 4-31 40.7
19S/2W- 2C3	D	39.4	1924	28.4	26.9	-1.5	4-16-41 36.6	4- 1-26 26.6
19S/2W- 4A13	G	29.3	1924	8.3	7.1	-1.2	3-15-41 22.7	10-19-50 7.1
19S/2W- 4B1	W	22.2	1936	1.1	0.1	-1.0	3- 2-44 19.7	10-28-50 0.1
19S/2W- 5A1	'37D	16.6	1937	0.0	-2.3	-2.3	4-16-41 12.2	10- 3-50 -2.3

CHAPTER III. RECORDS OF GROUND WATER LEVELS

A tabulation of distance to water surface for approximately 1,000 wells in Los Angeles, San Gabriel, and Santa Ana River Basins and in Antelope Valley is presented on the pages that follow. These records are a continuation of those published in previous reports of the Bulletin 39 series.

Following is a list of abbreviations used in this bulletin:

D.W.R.	Division of Water Resources
L.A. Co. F.C.D.	Los Angeles County Flood Control District
L.A.D.W. & P.	Los Angeles Department of Water & Power
L.B.W.D.	Long Beach Water Department
M.W.D.	The Metropolitan Water District of Southern California
O. CO. F.C.D.	Orange County Flood Control District
P.W.D.	Pasadena Water Department
Riv. Co. F.C. & W.C.D.	Riverside County Flood Control and Water Conservation District
Riv. W.D.	Riverside Water Department
S.A.V.I. Co.	Santa Ana Valley Irrigation Company
S.B. Co. F.C.D.	San Bernardino County Flood Control District
S.B.V.W.C.D.	San Bernardino Valley Water Conservation District
S.B.W.D.	San Bernardino Water Department
S.C.W. Co.	Southern California Water Company
S.G.V.P.A.	San Gabriel Valley Protective Association
U.S.G.S.	United States Geological Survey
U.S.W.B.	United States Weather Bureau

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

in District "A"

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
A-4c-B-6	Mar. 21 a	26.3
1229.6	June 1	27.0
	Aug. 1	26.9
	Nov. 21 a	27.4
A-4e-B-6	Mar. 22 a	43.4
1281.8	Nov. 1 a	41.8
A-5a-C-2	Jan. 4	10.2
959.4	Feb. 7	8.2
	Mar. 7	8.9
	Apr. 18	9.7
	May 16	9.8
	June 13	10.2
	July 11	10.6
	Aug. 1	10.0
	Aug. 28	11.0
	Oct. 17	11.2
	Nov. 14	11.5
A-9-D-3	Mar. 22	65.6
879.6	Nov. 1	64.7
A-10-E-3	Jan. 13	12.8
791.4	Feb. 13	11.5
	Mar. 13	11.4
	Apr. 10	12.0
	May 11	12.4
	June 16	12.8
	July 13	13.0
	Aug. 18	13.5
	Sep. 13	13.6
	Oct. 11	13.5
	Nov. 1	13.7
	Dec. 7	13.0
A-12-D-3	Mar. 22 a	18.8
830.0	Nov. 1 a	19.4
A-13-D-3	Jan. 4	27.5
825.9	Feb. 7	27.4
	Mar. 7	27.2
	Apr. 18	27.2
	May 16	27.2
	June 13	27.2
A-13-D-3 Cont.	July 11	27.3
	Aug. 1	27.5
	Aug. 28	27.5
	Sep. 13 b	27.5
	Oct. 11 b	27.5
	Nov. 1 b	27.6
A-15-D-4	Jan. 16 a	10.0
791.2	Feb. 13 a	10.3
	Mar. 13 a	9.1
	Apr. 10 a	9.0
	May 11 a	9.1
	June 16 a	8.9
	July 13 a	9.4
	Aug. 18 a	9.2
	Sep. 13 a	9.7
	Oct. 11 a	10.0
	Nov. 1 a	10.1
	Dec. 7 a	9.7
A-18a-D-4	Mar. 21	127.3
869.1		
A-18c-D-4	Mar. 10 a	51.6
783	Apr. 18	51.8
	Nov. 1	52.6
A-22-D-5	Mar. 22 a	183.8
862.5	Nov. 1 a	189.4
A-24-B-5	Mar. 20	38.0
1158.4	Apr. 17	37.8
	Nov. 1	41.8
A-24a-C-5	Jan. 4	6.2
1121.0	Feb. 7	5.9
	Mar. 7	5.8
	Apr. 4	6.2
	May 16	6.4
	June 13	6.7
	July 11	7.6
	Aug. 1	8.0
	Aug. 28	8.6
	Nov. 13	8.2

a Meas. from L.A.D.W. & P.
b Meas. by L.A. Co. F.C.D. from L.A.D.W.& P.
Measts. from L.A. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
A-24b-C-5	Mar. 21		23.8
1033.8	Nov. 1		22.8
A-26-D-5	Jan. 3		207.3
879.0	Feb. 7		208.0
	Mar. 7		208.5
	Apr. 4		209.2
	May 2		209.8
	June 6		210.8
	July 4		211.7
	Aug. 1		212.7
	Sep. 5		213.8
	Oct. 3		214.3
	Nov. 7		214.9
	Dec. 5		215.3
A-27-D-5	Jan. 17		115.3
798.0	Feb. 15		115.9
	Mar. 15		116.4
	Apr. 12		116.9
	May 10		117.6
	June 14		118.3
	July 12		118.9
	Aug. 16		119.7
	Sep. 14		120.4
	Oct. 11		120.6
	Nov. 1		120.9
	Dec. 7		121.5
A-27a-D-5	Jan. 16		121.9
*	Feb. 15		122.6
	Mar. 15		123.2
	Apr. 12		123.8
	May 10		124.3
	June 14		125.2
	July 12		126.9
	Aug. 16		126.7
	Sep. 13		127.3
	Oct. 11		128.1
	Nov. 1		128.4
	Dec. 7		128.9

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
A-28b-B-6	Jan. 4	a	15.1
1130.7	Feb. 7	a	23.5
	Mar. 7	a	18.0
	May 16	a	17.7
	July 11	a	26.4
	Aug. 31	a	25.1
A-31-D-6	Jan. 16		239.5
903.0	Feb. 15		240.2
	Apr. 12		245.3
	July 10		246.6
	Aug. 16		245.5
	Dec. 7		247.7
A-31a-D-6	Jan. 17		166.1
820.2	Feb. 15		166.4
	Mar. 15		167.1
	Apr. 12		167.8
	May 10		169.1
	June 14		170.2
	July 12		171.4
	Aug. 16		172.8
	Sep. 14		173.8
	Oct. 11		173.4
	Nov. 1		173.6
	Dec. 7		173.9
A-35-D-6	Feb. 21	a	238.8
886.6	Apr. 17	a	237.2
	July 25	a	240.4
	Nov. 20	a	243.8
A-37-C-7	Mar. 22	b	186.6
1203.8	Nov. 1	b	189.5
A-39-D-7	Jan. 17		257.7
898.2	Feb. 16		257.1
	Mar. 15		257.7
	Apr. 12	c	

* Correction to previous bulletin: R.P. Elev. 793.3 beginning Sep. 20, 1949.
a Meas. from L.A. Co. F.C.D.
b Meas. by L.A.D.W.& P. from L.A. Co. F.C.D.
c Dry at 258.0 ft.
Measts. from L.A.D.W. & P. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
A-41-C-7	Mar. 22		40.0
1099.1	Nov. 3		42.2
A-43-E-7	Jan. 4	b	135.4
713.7	Feb. 7	b	134.7
	Mar. 7	b	137.0
	Apr. 4	b	138.2
	May 2	b	138.7
	June 7	b	139.8
	July 11	b	141.5
	Aug. 22	b	144.9
	Sep. 26	b	146.5
	Oct. 24	b	145.9
	Nov. 21	b	144.7
	Dec. 19	b	143.6
A-44-C-7	Jan. 4	a	48.4
1164.1	Feb. 7	a	47.5
	Mar. 7	a	46.8
	Apr. 4	a	47.0
	May 16	a	47.7
	June 13	a	49.0
	July 11	a	49.8
	Aug. 1	a	50.1
	Sep. 28	a	50.5
	Oct. 17	a	51.2
	Nov. 14	a	50.7
A-45-C-8	Mar. 22		28.1
1159.8	Nov. 3		28.8
A-48-C-8	Mar. 23		54.6
1286.1	Nov. 3		58.3
A-50b-D-9	Apr. 10	a	150.0
1750	Apr. 11	a	152.1
	Oct. 23	a	152.0
	Nov. 29	a	159.7
A-54e-D-10	Mar. 30	c	57.0
1498	Apr. 11	a	56.9

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
A-56d-E-2	Apr. 17	a	28.9
882.9	Nov. 27	a	29.3
A-58d-E-3	Apr. 17	a	14.4
798.6	Nov. 1	a	15.3
A-60-E-3	Mar. 21		17.3
793.6	Nov. 1		15.3
A-62a-E-3	Jan. 16		12.5
769.9	Feb. 13		13.2
	Mar. 10		12.6
	Apr. 10		12.6
	May 11		12.8
	June 16		12.2
	July 13		11.7
	Aug. 16		12.9
	Sep. 13		11.8
	Oct. 11		12.0
	Nov. 1		12.7
	Dec. 7		13.0
A-66b-E-4	Jan. 13	a	11.8
729.5	Feb. 14	a	11.6
	Mar. 8	a	11.6
	Apr. 17	a	11.7
	May 9	a	11.6
	June 6	a	11.8
	July 3	a	12.0
	Aug. 8	a	12.2
	Sep. 6	a	12.5
	Oct. 3	a	12.7
	Nov. 1	a	12.7
	Nov. 27	a	12.5
A-70-E-5	Mar 20		30.4
719.1	Nov. 1	d	
A-71a-E-5	Mar. 20		14.0
723.9	Nov. 1		14.0
A-72-E-5	Mar. 10		47.7
732.5	Nov. 1		50.4

a Meas. from L.A. Co. F.C.D.
b Meas. by Owner from L.A. Co. F.C.D.
c Meas. from D.W.R.
d Dry at 30.4 ft.
Measts. from L.A.D.W. & P. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
A-73-E-5 690.1	Jan. 13	20.2
	Feb. 14	20.2
	Mar. 8	20.3
	Apr. 18	20.6
	May 9	20.8
	June 6	21.0
	July 3	21.4
	Aug. 8	21.8
	Sep. 6	22.1
	Oct. 3	22.3
	Nov. 1	22.6
	Nov. 27	22.7
A-74-E-5 732.6	Jan. 13	77.4
	Feb. 14	77.7
	Mar. 15	78.4
	Apr. 12	79.1
	May 8	81.4
	June 14	82.6
	July 10	83.6
	Aug. 16	84.9
	Sep. 13	85.6
	Oct. 11	83.9
	Nov. 1	83.9
	Dec. 7	84.1
A-75-F-6 654.3	Jan. 13	11.7
	Feb. 14	11.6
	Mar. 8	11.8
	May 18	17.5
	June 6	17.7
	July 3	18.0
	Aug. 8	18.3
	Sep. 6	18.5
	Oct. 3	18.5
	Nov. 1	18.5
	Nov. 27	18.4
A-76-E-6 707.2	Jan. 13	65.4
	Feb. 14	65.8
	Mar. 8	66.3
	Apr. 18	67.2
A-76-E-6 Cont.	May 9	71.5
	June 6	71.4
	July 3	74.1
	Aug. 8	76.3
	Sep. 6	77.0
	Oct. 3	72.5
	Nov. 1	72.3
	Dec. 7	72.2
A-77b-E-6 681.3	Nov. 2 a	50.0
A-78d-E-6 698.4	Jan. 13	80.4
	Feb. 14	80.3
	Mar. 8	80.1
	Apr. 18	80.7
	May 9	82.2
	June 6	81.0
	July 3	81.8
	Aug. 10 b	
A-81d-E-6 656.8	Jan. 13	43.0
	Feb. 14	43.0
	Mar. 8	43.1
	Apr. 8	43.0
	May 9	43.3
	June 6	40.4
	July 3	45.7
A-82-F-6 633.9	Mar. 21 a	33.3
	Nov. 2 a	38.8
A-85c-F-7 596.1	Mar. 21 a	15.6
	May 23 a	18.3
	July 18 ac	
A-87c-E-7 592.2	Jan. 4	48.3
	Feb. 7	48.3
	Mar. 7	48.6
	Apr. 4	49.1
	May 9	49.7
	June 7	50.5

a Meas. from L.A.D.W. & P.
b Dry at 82.6 ft.
c Dry at 18.6 ft.
Measts from L.A. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
A-87c-E-7 Cont.	July 12	a	51.9
	Aug. 16	ab	
A-88-F-8 546.8	Jan. 18	c	30.2
	Feb. 16	c	31.6
	Mar. 15	c	31.2
	Apr. 13	c	32.6
	May 10	c	32.0
	June 16	c	34.0
	July 12	c	36.6
	Aug. 16	c	41.3
	Sep. 14	c	44.6
	Oct. 12	c	44.9
	Nov. 2	c	45.3
	Dec. 8	c	45.7
A-89d-E-8 620.6	Jan. 4		70.6
	Feb. 7		69.3
	Mar. 7		70.1
	Apr. 4		71.8
	May 9		72.8
	June 7		74.1
	July 1		76.3
	Aug. 8		78.8
	Sep. 12		80.8
	Oct. 17		81.1
	Nov. 8		80.8
	Dec. 12		79.6

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
A-93l-E-8 *	Jan. 4	47.5
	Feb. 7	44.4
	Mar. 7	44.5
	Apr. 4	42.8
	May 9	43.6
	June 7	49.0
	July 11	52.6
	Aug. 8	56.4
	Sep. 12	59.8
	Oct. 10	60.9
	Nov. 8	60.8
	Dec. 12	57.1
A-98-E-10 965.2	Jan. 5	78.2
	Feb. 2	79.2
	Mar. 3	70.2
	Apr. 7	78.2
	May 5	79.2
	May 26	74.2
	June 23	80.2
	Aug. 18	79.2
	Sep. 22	76.7
	Oct. 20	84.2
	Nov. 17	78.7
	Dec. 8	79.2

* R.P. Elev. 509.3 through Nov. 1, 1950; then 510.0.
a Meas. from L.A.Co.F.C.D.
b Dry at 52.8 ft.
c Meas. from L.A.D.W.&P.
Measts. by owner from L.A.Co.F.C.D. except as noted.

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

in District "B"

Well Number and R.P. Elev.	Date	Dist. R.P. to water surface, Feet
	1950	
B-3-I-5	Apr. 26	97.2
114.	July 18	96.9
	Dec. 19	96.9
B-6d-H-6	Apr. 26	116.2
195.8	Dec. 19	117.4
B-10a-I-6	Apr. 17	136.2
54.0	Dec. 4	137.9
B-10p-I-6	Jan. 18	74.8
84.6	Mar. 1	75.4
	Apr. 11	75.4
	May 9	75.4
	May 29	75.6
	July 13	75.6
	Aug. 9	75.6
	Sep. 5	76.0
	Oct. 23	75.8
	Dec. 5	75.8
B-11b-G-7	Apr. 24	111.0
293.2	Dec. 12	115.6
B-12-H-7	Apr. 26	66.4
100	Dec. 4	64.9
B-13-I-6	Apr. 26	62.4
68.0	Dec. 4	63.3
B-14-G-8	Feb. 14	30.0
290.	Mar. 14	31.5
	Apr. 25	33.0
	May 29	27.0
	July 12	30.4
	Aug. 9	30.0
	Sep. 6	28.3
	Oct. 24	28.7
	Dec. 12	31.1

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
B-14d-G-8	Feb. 14	45.9
335.9	Mar. 14	46.0
	Apr. 25	43.7
	May 29	46.0
	July 12	46.1
	Aug. 9	46.1
	Sep. 6	46.1
	Oct. 24	46.9
	Dec. 12	46.3
B-15-I-8	Feb. 15	84.2
110.7	Apr. 19	88.0
	May 29	87.3
	July 12	90.0
	Aug. 9	90.8
	Sep. 6	92.0
	Oct. 24	94.5
	Dec. 12	93.6
B-18-H-9	Apr. 28	131.5
225.	Dec. 26	134.6
B-18a-H-9	Apr. 28	143.8
231.1	Dec. 26	146.1
B-22e-I-10	Jan. 6 a	230.
201.7	Apr. 6 a	233.
	May 4 a	235.
	July 2 a	236.
	July 5 a	232.
B-23-I-5	Jan. 18	23.2
22.2	Mar. 1	22.9
	Apr. 11	22.9
	May 9	22.9
	May 29	23.0
	July 13	23.0
	Aug. 8	23.1
	Sep. 5	23.2
	Oct. 23	23.2
	Dec. 5	23.3

a Meas. by owner from L.A.C.F.Co.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
B-24a-J-6	Feb. 15	16.8
14.6	Apr. 12	17.5
	Nov. 20	14.8
B-27d-J-6	Jan. 3 a	21.3
15.6	Nov. 27	23.2
B-28c-J-6	Jan. 3	133.9
130.6	Apr. 18	132.5
	Dec. 5	135.8
B-31-J-6	Jan. 3 a	147.1
143.0	Nov. 2 a	152.0
B-36b-K-6	Jan. 4 a	160.7
142.4	Apr. 14 a	160.7
	Nov. 9 a	162.4
B-44-K-8	Jan. 6 a	105.0
84.2	Nov. 17 a	107.8
B-44a-K-8	Jan. 18	126.8
77.7	Mar. 1	118.3
	Apr. 11	127.3
	May 10	131.0
	May 29	131.3
	July 12	132.0
	Aug. 9	137.3
	Sep. 6	134.2
	Oct. 23	138.1
	Dec. 5	140.2
B-45d-K-8	Jan. 6 a	87.8
48.3		
B-50-I-9	Apr. 24	127.6
156.1	Nov. 29	135.5
B-51b-J-9	Apr. 24	114.6
140.6	Nov. 29	120.0
B-52-J-8	Apr. 19	177.8
178.8	Nov. 27	180.2

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
B-54-K-8	Jan. 16 b	192
136	Feb. 8 b	197
	Mar. 24 b	190
	Apr. 16 b	194
	May 16 b	190
	June 16 b	189
	July 16 b	189
	Aug. 16 b	191
	Sep. 1 b	190
	Oct. 1 b	189
	Nov. 1 b	186
	Dec. 1 b	183
B-57-J-9	Jan. 8 b	121
125	Feb. 16 b	118
	Mar. 16 b	119
	Apr. 16 b	128
	May 16 b	129
	June 16 b	140
	July 16 b	140
	Aug. 16 b	140
	Sep. 1 b	141
	Oct. 1 b	140
	Nov. 1 b	140
	Dec. 1 b	140
B-58d-K-9	Jan. 16 b	135
125.6	Feb. 16 b	133
	Mar. 24 b	135
	Apr. 16 b	140
	May 16 b	140
	June 16 b	142
	July 16 b	142
	Aug. 16 b	146
	Sep. 1 b	145
	Oct. 1 b	145
	Nov. 1 b	147
	Dec. 1 b	145
B-58e-K-9	Jan. 6 a	134.3
127.3	Apr. 10 a	132.4

a Meas. from D.W.R.

b Meas. by owner from L.A.Co.F.C.D.

Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
B-64d-L-9 92.8	Jan. 20		79.8
	Mar. 3		78.8
	Apr. 14		81.9
	May 5		85.4
	June 16		89.9
	July 7		96.0
	Aug. 18		95.6
	Sep. 8		92.2
	Oct. 20		93.0
	Nov. 10		92.6
B-67-K-10 104	Apr. 24		48.0
	Nov. 29		49.8
B-69-K-9 86.5	Jan. 20		71.6
	Feb. 10		70.3
	Mar. 3		71.0
	Apr. 14		75.1
	May 5		80.2
	June 16		87.5
	July 7		91.6
	Aug. 18		93.4
	Sep. 8		89.6
	Oct. 29		88.9
	Nov. 10		88.0
	Dec. 1		81.8
B-70b-J-10 178.7	Jan.	a	157
	Feb.	a	166
	Mar.	a	161
	Apr.	a	164
	May	a	164
	June	a	165
	July	a	176
	Aug.	a	176
	Sep.	a	174
	Oct.	a	173
	Nov.	a	171
	Dec.	a	171

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
B-72e-K-10 107.0	Jan. 3		37.8
	Feb. 8		37.3
	Mar. 6		37.7
	Apr. 10		38.6
	May 10		39.8
	June 5		40.0
	July 10		42.2
	Aug. 14		42.9
	Sep. 26		41.9
	Oct. 30		41.8
	Nov. 24		41.1
B-84-L-6 141.6	Apr. 18		159.0
	May 1		160.2
	May 31		156.2
	June 7		156.5
	Oct. 26	b	158.6
B-90c-L-7 96.6	Mar. 1	c	125
	Dec. 28	c	127
B-91-L-7 61	Jan. 16	d	102
	Feb. 16	d	102
	Mar. 24	d	108
	Apr. 16	d	107
	May 16	d	111
	June 16	d	113
	July 16	d	112
	Aug. 16	d	114
	Sep. 1	d	116
	Oct. 1	d	113
	Nov. 1	d	110
	Dec. 1	d	107
B-95-N-7 108.7	Apr. 11	b	133.3
	Apr. 28		136.9
	Dec. 12	b	138.5
	Dec. 18		136.3
B-96-L-8 52.2	Jan. 5	b	83.9
	Apr. 12	b	84.6

a Meas. by owner from L.A.Co.F.C.D.
b Meas. from D.W.R.
c Meas. from owner.
d Meas. by S.C.W.Co. from L.A.Co.F.C.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
B-100-N-8	Feb. 14	111.4
82	Mar. 1	111.6
	Apr. 11	111.6
	May 8	112.2
	June 29	112.7
	July 12	113.1
	Aug. 8	114.0
	Sep. 5	113.3
	Oct. 23	113.6
	Dec. 5	113.6
B-101-L-8	Apr. 19 a	26.0
45	Nov. 22 a	25.7
B-101b-L-8	Jan. 5 a	74.4
45.4	Apr. 11 a	76.9
	Nov. 17	77.4
B-102-L-8	Apr. 19 a	76.6
41		
B-103b-L-8	Jan. 5 a	112.8
58.0	Apr. 13 a	113.8
	Dec. 12	118.4
B-106-L-8	Jan. 16 b	120
55.0	Feb. 16 b	123
	Mar. 16 b	123
	Apr. 16 b	116
	May 16 b	123
	June 16 b	122
	July 16 b	127
	Aug. 16 b	128
	Sep. 1 b	126
	Oct. 1 b	126
	Nov. 1 b	126
	Dec. 1 b	121
B-106a-L-9	Apr. 25	106.3
78.9	Dec. 4	108.7

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
B-108-M-8	Apr. 13 a	67.8
35.6		
B-109c-M-9	Jan. 6 a	79.6
28.4	Apr. 14 a	81.9
B-110b-N-9	Apr. 18 a	93.8
44.8	Nov. 20 a	98.5
B-111-L-9	Jan. 6 a	77.4
55.4	Apr. 13 a	77.7
	Nov. 30 a	79.2
B-112-L-9	Apr. 21 a	65.9
43.1		
B-113-M-9	Jan. 6 a	67.3
11.1	Apr. 13 a	72.8
	Apr. 25	73.7
	Dec. 4	79.0
B-115a-N-9	Jan. 1 c	91.7
40	Apr. 1 c	97
	May 1 c	97
	June 30 c	99
	July 30 c	94.8
	Aug. 30 c	94.0
	Sep. 30 c	98.0
	Nov. 30 c	92.0
	Dec. 30 c	91.9
B-115g-N-9	Jan. 31 d	101.3
35.0	Mar. 1 d	99.6
	Apr. 1 d	102.2
	May 1 d	104.2
	June 1 d	107.7
	July 1 d	113.3
	Aug. 1 d	116.0
	Sep. 1 d	116.6
	Oct. 1 d	116.0
	Nov. 1 d	117.6
	Dec. 1 d	111.8

a Meas. from D.W.R.
b Meas. by S.C.W. Co. from L.A.Co.F.C.D.
c Meas. from owner
d Meas. by owner from L.A.Co.F.C.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist. R.P. to water surface, Feet
	1950	
B-117-L-10	Jan. 6 a	107.5
97.8	Apr. 14 a	108.0
	Apr. 25	109.8
	Dec. 4	114.8
B-118-M-10	Jan. 12 b	34.8
34.0	Feb. 2 b	34.5
	Mar. 16 b	35.1
	Apr. 27 b	36.0
	May 18 b	37.7
	June 8 b	37.5
	June 28 b	37.0
	Aug. 31 b	37.7
	Oct. 12 b	38.1
	Nov. 2 b	39.2
	Nov. 24 b	37.3
B-119-M-9	Jan. 6 a	53.2
24.6	Apr. 25	53.9
	Dec. 4	56.7
B-119q-M-10	Jan. 6 a	30.6
24.6	Apr. 14 a	31.3
	Apr. 25	30.8
	Nov. 28 a	32.7
B-120-N-10	Nov. 28 a	33.9
18.2		
B-122-L-10	Apr. 10 a	30.4
58.1	Dec. 11	33.9
B-122f-L-10	Jan. 20 c	30.3
61.6	Feb. 10 c	29.8
	Mar. 3 c	31.7
	Apr. 14 c	33.8
	May 5 c	36.0
	June 16 c	39.8
	July 17 c	42.8
	Aug. 18 c	44.5
	Sep. 29 c	42.5
	Nov. 10 c	41.6
B-122f-L-10	Dec. 1 c	38.1
Cont.	Dec. 22 c	37.7
B-123e-M-10	Apr. 12	29.6
42.7		
B-129-L-10	Apr. 17	48.4
58.1	Dec. 11	54.8
B-129b-M-10	Jan. 12 d	48.2
37.4	Feb. 2 d	48.1
	Mar. 16 d	49.2
	Apr. 27 d	50.8
	May 18 d	53.4
	June 8 d	54.6
	July 20 d	57.2
	Aug. 31 d	59.0
	Sep. 21 d	57.2
	Oct. 12 d	56.9
	Nov. 2 d	56.2
	Nov. 24 d	54.0
	Dec. 14 d	53.3
B-130e	Jan. 3 a	217.9
184.0	Apr. 11 a	218.8
B-132-N-8	Apr. 28	108.3
71.2	Dec. 5	111.4
B-133-N-8	June 30 e	96.3
45.2	July 30 e	96.3
	Aug. 8 e	98.5
	Sep. 9 e	99.1
	Nov. 6 e	98.6
B-134-N-9	Apr. 28	58.4
39		
B-134c-N-9	Jan. 3 a	65.3
27.0	Apr. 10 a	65.2
	Nov. 7 a	69.4

a Meas. from D.W.R.
b Meas. by owner from L.A.Co.F.C.D.
c Meas. by S.G.V.P.A. from L.A.Co.F.C.D.
d Meas. by L.B.W.D. from L.A.Co.F.C.D.
e Meas. from owner.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
B-136-N-10 8.0	Jan. 12	14.0
	Feb. 2	14.1
	Mar. 16	14.0
	Apr. 27	14.3
	May 18	14.9
	June 8	14.6
	July 20	14.3
	Aug. 31	15.0
	Sep. 21	15.0
	Oct. 12	15.5
	Nov. 2	15.2
	Dec. 14	17.2
B-136d-N-10 7.0	Jan. 12	12.2
	Feb. 2	12.6
	Mar. 16	12.8
	Apr. 27	12.8
	May 18	13.2
	June 8	12.9
	July 20	13.0
	Aug. 31	12.9
	Oct. 12	13.8
	Nov. 2	13.2
	Dec. 14	12.8

Measts. by L.B.W.D. from L.A.Co.F.C.D.

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

in District "C"

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1c-E-11	Feb. 28 a	206.8
1172.4	Mar. 30 b	214.6
	Apr. 28 a	207.2
	June 1 a	210.4
	Sep. 9 a	225.7
	Sep. 29 a	223.4
	Oct. 27 a	225.1
	Nov. 31 a	221.4
	Dec. 18 b	221.7
C-1k-D-10	Mar. 30 b	291.8
1273.3	Dec. 18 b	306.1
C-3-E-11	Jan. 31 a	260
*1202.3	Feb. 28 a	257
**1202.1	Apr. 7 b	256.2
	Apr. 29 a	257
	May 31 a	256
	June 30 a	263
	July 31 a	269
	Aug. 31 a	273
	Sep. 30 a	273
	Oct. 31 a	273
	Nov. 30 a	273
	Dec. 19 b	270.2
C-5-E-11	Jan. 5	124.4
1070.6	Feb. 6	121.8
	Mar. 7	119.4
	Apr. 4 b	119.4
	May 5	118.8
	June 1	120.8
	June 29	123.5
	Aug. 2	128.8
	Sep. 5	133.9
	Oct. 4	133.9
	Nov. 6	136.3
	Dec. 4	134.3
C-7-E-11	Jan. 5	168.4
1109.7	Feb. 6	166.4
C-7-E-11	Mar. 7	164.4
Cont.	Apr. 4 b	163.6
	May 5	162.9
	June 1	163.4
	June 29	165.4
	Aug. 2	168.6
	Sep. 5	172.1
	Oct. 4	173.6
	Nov. 6	175.7
	Dec. 4	175.9
C-10-E-11	Jan. 5	107.5
1046.6	Feb. 6	106.8
	Mar. 7	105.6
	Apr. 4 b	104.5
	May 5	103.7
	June 1	103.6
	June 29	104.0
	Aug. 2	106.0
	Sep. 5	108.6
	Oct. 4	110.4
	Nov. 6	112.4
	Dec. 4	113.6
C-11-E-11	Mar. 30 a	264
1188.5	Sep. 11 a	277
	Nov. 21 b	271.7
	Dec. 19 a	271.9
C-12-E-11	Jan. 31 a	196
*1134.2	Feb. 28 a	198
**1129.2	Apr. 6 b	204.7
	Apr. 30 a	198
	May 31 a	204
	June 30 a	206
	July 31 a	215
	Aug. 31 a	217
	Sep. 30 a	208
	Oct. 31 a	204
	Nov. 30 a	198
	Dec. 19 b	208.3

* Air gage R.P. used by owner.
** Tape R.P. used by D.W.R.
a Meas. from owner
b Meas. from D.W.R.
Measts. from P.W.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-16-F-11	Jan. 5		252.2
916.5	Feb. 7		250.2
	Mar. 7		248.7
	Apr. 4	a	248.4
	May 4		247.4
	June 1		245.7
	June 28		244.6
	Aug. 1		247.9
	Sep. 6		253.4
	Oct. 23		252.2
	Nov. 6		251.8
	Dec. 4		250.2
C-22-F-11	Jan. 5		235.3
897.9	Feb. 7		233.5
	Mar. 7		231.1
	Apr. 4	a	232.1
	May 4		230.9
	June 1		229.7
	June 28		228.8
	Sep. 5		237.7
	Oct. 4		236.6
	Nov. 6		234.4
	Dec. 19		234.5
C-31a-F-11	Apr. 9	a	128.3
774.4	Dec. 17	a	127.4
C-42-E-12	Apr. 3	a	304.1
865.6	Nov. 30	a	309.7
C-44-F-12	Jan. 5		317.3
879.0	Feb. 6		315.8
	Mar. 14		314.6
	Apr. 4	a	314.5
	May 4		313.8
	June 2		313.6
	June 28		313.9
	Aug. 1		320.4
	Sep. 6		325.7
	Oct. 4		326.6
	Nov. 6		327.2
	Dec. 4		324.3

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-47-F-12	Apr. 3	a	147.6
698.8	Nov. 17	a	161.3
C-49-F-12	Jan. 1	b	166.7
*720.0	Feb. 1	b	166.1
**718.8	Mar. 1	b	166.1
	Apr. 3	a	164.3
	May 1	b	163.8
	June 1	b	166.1
	July 1	b	170.7
	Aug. 1	b	171.9
	Sep. 1	b	167.3
	Oct. 1	b	171.9
	Nov. 1	b	171.9
	Dec. 1	b	171.3
	Dec. 13	a	173.5
C-52a-F-12	Jan. 5		231.5
791.2	Feb. 7		229.0
	Mar. 14		228.6
	Apr. 4	a	228.8
	May 4		227.8
	June 1		228.2
	June 28		228.9
	Sep. 7		240.0
	Dec. 4		238.8
C-55-F-12	Jan. 31	b	174
736.3	Feb. 28	b	173
	Apr. 3	a	171.9
	Apr. 29	b	170.6
	May 31	b	173
	June 30	b	174.6
	July 31	b	178.6
	Aug. 31	b	179.6
	Sep. 30	b	180
	Oct. 31	b	185.6
	Nov. 30	b	181
	Dec. 15	a	178.7
C-62-F-12	Jan. 31	b	96.0
673.6	Feb. 28	b	92.0
	Mar. 30	a	88.6

* Air gage R.P. used by owner.
** Tape R.P. used by D.W.R.
a Meas. from D.W.R.
b Meas. from owner.
Measts. from P.W.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-62-F-12 Cont.	Apr. 30 a	88.0
	May 31 a	91.0
	June 30 a	95.0
	July 31 a	98.0
	Aug. 31 a	102.8
	Sep. 30 a	95
	Oct. 31 a	91
	Nov. 30 a	91
	Dec. 18 b	89.9
C-74-F-12 676.0	Apr. 3 b	125.1
	Nov. 17 b	130.5
C-76-F-12 665.8	Apr. 3 b	118.7
	Nov. 11 b	124.8
C-82a-F-13 592.1	Jan. 5	49.2
	Feb. 7	49.0
	Mar. 10	48.8
	Apr. 4 b	47.8
	May 4	51.1
	June 1	53.3
	Sep. 7	54.7
	Oct. 9	52.5
	Nov. 6	52.4
	Dec. 4	51.0
C-101-F-13 603.0	Jan. 7 a	111.1
	Feb. 4 a	118.8
	Mar. 4 a	102.5
	Apr. 7 b	105.5
	May 6 a	105.2
	June 3 a	114.3
	July 8 a	123.8
	Aug. 5 a	131.4
	Sep. 2 a	124.4
	Oct. 7 a	118.3
	Nov. 4 a	120.9
	Nov. 22 b	111.2
C-102-F-14 594.0	Feb. 15 c	15.8
	Mar. 15 c	16.2
	Apr. 5 b	16.9
	Apr. 12 c	17.1
	Nov. 16 b	20.7
C-103-F-13 627.5	Apr. 5 b	86.9
	Dec. 14 b	87.0
C-108-F-12 708.4	Apr. 6 b	152.6
	Dec. 13 b	142.6
C-111-F-11 776.3	Jan. 5	163.4
	Feb. 8	161.6
	Mar. 8	160.4
	Apr. 4 b	159.5
	May 4	158.9
	June 2	160.2
	June 28	163.2
	Aug. 3	165.2
	Sep. 7	166.1
	Oct. 9	165.6
	Nov. 6	164.8
	Dec. 4	162.7
C-115-E-12 1105	Apr. 3 b	45.1
	Nov. 20 b	54.3
C-119-F-12 *662.5 **661.8	Jan. 1 a	104
	Feb. 1 a	104
	Mar. 1 a	103
	Mar. 30 b	102.0
	May 1 a	102
	June 1 a	104
	July 1 a	105
	Aug. 1 a	110
	Sep. 1 a	112
	Oct. 1 a	113
	Nov. 1 a	113
	Dec. 19 b	113.7

* Air gage R.P. used by owner.
** Tape R.P. used by D.W.R.
a Meas. from owner.
b Meas. from D.W.R.
c Meas. from L.A.Co.F.C.D.
Measts. from P.W.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-130-F-13 677.0	Jan. 31 a	182
	Feb. 28 a	178.1
	Apr. 7 b	180.0
	Apr. 30 a	180.1
	May 31 a	184.6
	June 30 a	192
	July 31 a	195.4
	Aug. 31 a	200.3
	Sep. 30 a	195.5
	Oct. 31 a	190.8
	Nov. 22 b	187.6
	Dec. 31 a	182
C-200-F-13 482.2	Jan. 6 c	199.1
	Feb. 17 c	199.6
	Mar. 17 c	200.3
	Apr. 21 c	201.1
	May 12 c	201.7
	June 20 c	202.6
	July 14 c	203.3
	Aug. 4 c	204.0
	Sep. 15 c	205.1
	Oct. 27 c	206.4
	Nov. 17 c	208.3
	Dec. 29 c	208.7
C-201-G-12 507.7	Jan. 1 a	270
	Feb. 1 a	271
	Mar. 1 a	269
	Apr. 1 a	270
	May 1 a	274
	June 1 a	278
	July 1 a	279
	Aug. 1 a	287
	Sep. 1 a	287
	Oct. 1 a	288
	Nov. 1 a	284
	Dec. 1 a	279
C-204-G-12 478.9	Jan. 6	244.6
	Feb. 17	243.3
C-204-G-12 Cont.	Mar. 16	244.3
	Apr. 21	244.7
	May 12	245.7
	June 20	249.0
	July 14	254.0
	Aug. 8	254.2
	Sep. 15	253.5
	Oct. 27	254.0
	Nov. 17	254.2
	Dec. 8	252.8
C-205-G-12 429.6	Feb. 1	208.3
	Dec. 20	204.0
C-206-G-12 534.6	Jan. 31 a	303.0
	Feb. 17	304.3
	Mar. 31 a	305.0
	Apr. 30 a	307.0
	June 3	308.8
	June 30 a	309.0
	July 31 a	310.0
	Aug. 31 a	263.8
	Sep. 15	311.7
	Oct. 27	312.4
	Nov. 30 a	313.0
	Dec. 31 a	313.0
C-211m-G-11 428.5	Apr. 3	15
C-212-H-12 283.0	Jan. 27 c	29.3
	Feb. 17 c	29.4
	Mar. 31 c	29.5
	Apr. 21 c	29.6
	May 12 c	29.7
	June 20 c	29.9
	July 14 c	29.9
	Aug. 25 c	30.4
	Sep. 15 c	30.6
	Oct. 27 c	31.0

a Meas. from owner.
b Meas. from D.W.R.
c Meas. by S.G.V.P.A. from L.A.Co.F.C.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-223-G-13 306.2	Jan. 6	39.0
	Feb. 17	39.6
	Mar. 16	40.4
	Apr. 20	41.0
	May 12	41.5
	June 2	42.6
	July 13	43.6
	Aug. 25	44.4
	Oct. 6	45.6
	Oct. 27	46.1
	Nov. 17	46.4
	Dec. 29	46.8
C-224-G-13 314.5	Jan. 4 a	46.8
	Feb. 1 a	47.0
	Mar. 1 a	46.2
	Apr. 1 a	46.7
	May 1 a	47.0
	June 1 a	48.0
	July 1 a	48.2
	Aug. 1 a	50.7
	Sep. 1 a	52.4
	Oct. 1 a	52.1
	Nov. 1 a	52.0
	Dec. 1 a	51.2
C-230a-H-13 *	Jan. 6	22.1
	Feb. 17	21.4
	Aug. 4	25.5
	Aug. 25	26.1
	Nov. 17	27.8
C-234-H-13 242.6	Jan. 4	8.3
	Feb. 1	8.1
	Mar. 1	7.8
	Apr. 5	8.2
	May 3	8.5
	June 7	9.0
	July 12	9.6
	Aug. 9	10.1
	Aug. 30	10.3
	Oct. 4	10.6
C-234-H-13 Cont.	Nov. 1	10.6
	Dec. 6	10.5
C-237w-H-13 240	Jan. 4	9.7
	Feb. 1	9.3
	Mar. 1	9.1
	Apr. 5	9.4
	May 3	10.0
	June 7	10.5
	July 5	11.1
	Aug. 2	11.9
	Aug. 30	12.4
	Sep. 27	12.7
	Nov. 1	13.1
	Nov. 29	13.2
C-239-H-13 228	Jan. 6	13.4
	Feb. 17	13.1
	Mar. 17	13.5
	Apr. 20	14.0
	May 12	14.2
	June 2	14.4
	July 13	15.1
	Aug. 25	15.6
	Sep. 14	15.6
	Oct. 27	15.9
	Nov. 17	15.6
	Dec. 29	15.5
C-240q-I-13 213.0	Jan. 4	4.6
	Feb. 1	4.6
	Mar. 1	4.8
	Apr. 5	5.5
	May 3	5.6
	June 7	6.1
	July 5	7.9
	Aug. 2	8.4
	Sep. 6	9.1
	Oct. 4	8.0
	Nov. 1	7.6
	Dec. 6	6.6

* R.P. Elev. 278.3 through Aug. 4, 1950; then 278.6.
a Meas. by owner from L.A.Co.F.C.D.
Measts. by S.G.V.P.A. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-241-F-14	Jan. 6	142.9
416.6	Feb. 17	143.6
	Mar. 17	144.1
	Apr. 21	144.8
	May 12	145.4
	June 20	146.1
	July 14	147.4
	Aug. 25	148.6
	Sep. 15	149.2
	Oct. 6	150.3
	Nov. 17	151.6
	Dec. 8	152.3
C-242-F-14	Jan. 6	141.1
404.5	Feb. 17	137.2
	Apr. 21	137.7
	Aug. 4	145.0
	Sep. 15	144.4
	Oct. 6	146.4
	Dec. 8	146.4
	Dec. 29	149.1
C-243-F-14	Jan. 6	147.4
414.5	Feb. 17	147.2
	Mar. 17	147.4
	Apr. 21	147.2
	May 12	147.4
	June 3	148.0
	July 14	150.2
	Aug. 4	151.4
	Sep. 15	153.4
	Oct. 6	155.2
	Nov. 17	156.5
	Dec. 8	155.8
C-243b-F-14	Apr. 19 a	45.8
797.2	Nov. 20 a	50.0
C-243d-F-14	Jan. 27	126.9
699.5	Feb. 17	126.1
	Apr. 20	121.8
	June 3	130.5
C-243d-F-14	July 13	131.8
Cont.	Aug. 4	132.7
	Sep. 15	130.7
	Oct. 6	133.8
	Nov. 20	128.4
	Dec. 8	130.2
C-249-G-14	Jan. 4	72.7
334.8	Feb. 1	72.5
	Mar. 1	72.3
	Apr. 5	72.8
	May 3	73.0
	June 7	74.1
	July 5	75.5
	Aug. 2	77.1
C-259-H-14	Jan. 5	34.6
292.0	Feb. 16	33.4
	Mar. 16	33.5
	Apr. 20	34.2
	May 11	35.5
	June 2	36.2
	July 13	39.7
	Aug. 24	41.9
	Sep. 14	42.3
	Oct. 26	43.5
	Nov. 16	43.5
	Dec. 28	42.4
C-262-H-14	Jan. 5	57.3
320.1	Feb. 16	55.5
	Apr. 20	56.9
	May 11	57.5
	June 6	58.8
	July 13	61.6
C-266-H-14	Jan. 5	25.0
294.5	Feb. 6	24.5
	June 2	31.6
	July 13	35.8
	Aug. 3	37.2
	Oct. 26	35.0
	Nov. 16	33.1
	Dec. 7	32.0

a Meas. from L.A. Co. F.C.D.
Measts. by S.G.V.P.A. from L.A. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface Feet
	1950		
C-278-F-15 635.1	Jan. 6		29.2
	Jan. 27		23.8
	Mar. 17		19.6
	Apr. 21		24.3
	June 6		32.1
	June 20		35.4
	July 14		38.9
	Aug. 25		43.7
	Sep. 15		48.1
	Oct. 27		50.6
	Nov. 17		52.3
	Dec. 29		55.2
C-280-F-15 591.2	Jan. 6		99.3
	Jan. 27		64.0
	Feb. 17		42.8
	Mar. 17		38.7
	June 3		50.5
	June 20		56.6
C-281-F-15 593.0	Jan. 16	a	159.9
	Feb. 1	a	124.6
	Mar. 2	a	78.9
	Apr. 6	a	76.0
	May 3	a	85.7
	June 7	a	102.8
	July 13	a	118.9
	July 31	a	126.7
	Sep. 14	a	145.4
	Oct. 11	a	157.1
	Nov. 20	a	173.6
	Dec. 6	a	179.1
C-283-G-15 456.6	Jan. 4		189.6
	Feb. 1		189.2
	Mar. 1		188.7
	Apr. 5		187.9
	May 3		187.6
	June 7		189.6
	July 5		191.3
	Aug. 2		193.5
	Sep. 6		195.8
C-283-G-15 Cont.	Oct. 4		197.0
	Nov. 1		198.0
	Dec. 6		198.1
C-285-F-16 686.0	Jan. 6		59.2
	Feb. 17		43.2
	Mar. 17		42.5
	Apr. 21		54.7
	May 12		65.8
	June 3		74.3
	July 14		87.1
	Aug. 4		91.4
	Aug. 25		98.2
	Nov. 17		107.7
	Dec. 29		108.9
C-291-G-14 371.5	Jan. 5		106.4
	Feb. 16		105.8
	Mar. 16		105.7
	Apr. 20		105.4
	May 11		105.7
	June 2		106.8
	July 13		109.2
	Aug. 3		110.6
	Sep. 14		113.0
	Oct. 5		113.8
	Nov. 16		115.1
	Dec. 28		114.6
C-294a-G-15 387.7	Jan. 4		120.6
	Feb. 1		120.1
	Mar. 1		119.7
	Apr. 5		119.4
	May 3		119.5
	June 7		121.5
	July 5		123.4
	Aug. 2		125.3
	Aug. 30		127.2
	Oct. 4		128.6
	Nov. 1		129.6
	Nov. 29		129.4

a Meas. from L.A.Co.F.C.D.
Measts. by S.G.V.P.A. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface Feet
	1950	
C-295-G-15 401.4	Oct. 18	141.9
	Nov. 15	142.2
	Dec. 6	141.3
	Dec. 27	140.9
C-296-G-15 424.7	Jan. 4	152.4
	Feb. 15	151.7
	Mar. 29	151.6
	Apr. 18	151.2
	May 10	152.4
	June 17	157.5
	July 12	157.0
	Aug. 23	160.1
	Oct. 4	161.6
	Oct. 25	162.4
	Nov. 15	162.6
	Dec. 27	161.1
C-300-H-15 407.2	Jan. 4	131.7
	Feb. 1	131.5
	Mar. 1	131.2
	Apr. 5	131.3
	May 3	131.5
	June 7	133.2
	July 5	134.7
	Aug. 2	136.4
	Sep. 6	138.4
	Oct. 25	140.4
	Nov. 15	140.9
	Dec. 6	140.6
C-307-H-15 357.4	Jan. 26	86.9
	Feb. 16	86.6
	Mar. 16	87.7
	Apr. 20	88.3
	May 11	88.7
	June 17	89.6
	July 13	91.8
	Aug. 24	93.4
	Sep. 14	93.9
	Oct. 26	95.5
	Nov. 16	95.6
	Dec. 28	95.2
C-309-H-15 320.3	Jan. 26	49.7
	Feb. 6	49.4
	Mar. 16	50.8
	June 17	58.8
	July 13	61.2
	Aug. 24	62.3
	Sep. 14	61.2
	Oct. 26	60.7
	Nov. 16	59.6
	Dec. 7	58.8
C-312-H-15 342.3	Jan. 5	67.5
	Feb. 16	66.8
	Mar. 16	68.6
	Apr. 20	70.0
	May 11	72.1
	June 17	76.0
	July 13	80.1
	Aug. 3	83.8
	Sep. 14	79.2
	Oct. 5	79.5
	Nov. 16	77.2
	Dec. 28	76.4
C-316-I-15 309.2	Jan. 5	11.7
	Feb. 16	9.8
	Mar. 16	9.4
	Apr. 20	9.9
	May 11	11.5
	June 2	13.0
	July 13	15.7
	Aug. 3	17.8
	Sep. 9	16.9
	Oct. 5	17.3
	Nov. 16	17.5
	Dec. 7	16.8
C-317-J-15 331.0	Jan. 5	30.0
	Feb. 16	27.7
	Mar. 16	19.3
	Apr. 20	19.0
	May 11	19.7

Measts. by S.G.V.P.A. from L.A.Co.F.C.D.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-320-F-16 756.3	Jan. 5	ab	37.3
	Jan. 26	ab	32.2
	Feb. 24	ab	25.8
	Apr. 6	ab	31.4
	May 4	b	34.7
	June 1	b	38.8
	June 29	b	42.6
	Aug. 3	b	45.8
	Aug. 31	b	45.4
	Oct. 5	b	44.8
	Nov. 2	b	44.9
	Nov. 30	b	42.2
C-322-F-16 694.6	Jan. 5		56.8
	Feb. 1		45.4
	Mar. 1		32.0
	Mar. 30		45.2
	May 1		64.7
	June 1		82.8
	July 1		98.5
	Aug. 1		106.2
	Sep. 1		122.2
	Sep. 30		125.3
	Nov. 1		129.7
	Dec. 11		124.4
C-323-F-16 693.3	Jan. 5	b	55.6
	Feb. 2	b	41.2
	Mar. 2	b	24.0
	Mar. 30	b	43.4
	May 4	b	71.4
	June 1	b	89.8
	June 29	b	105.0
	Aug. 3	b	117.6
	Aug. 30	b	128.2
	Nov. 30	b	135.7
	Dec. 28	b	134.7
C-328-F-16 671.4	Jan. 5	c	103.7
	Feb. 6		67.1
	Mar. 16	c	45.7
	Apr. 20	c	59.7
C-328-F-16 Cont.	May 11	c	72.2
	June 2		85.5
	July 13		106.4
	Aug. 3	c	114.3
	Sep. 14	c	129.5
	Oct. 5	d	
C-334-F-16 631.0	Jan. 10		119.3
	Feb. 1		114.5
	Mar. 1		105.4
	Mar. 30		88.0
	Apr. 15		80.8
	June 1		83.1
	July 1		90.8
	Aug. 1		100.8
	Sep. 1		103.5
	Sep. 30		112.5
	Nov. 1		119.0
	Dec. 1		121.0
C-335-G-16 538.2	Jan. 5		261.6
	Jan. 16		261.3
	Feb. 16		260.7
	Mar. 16		260.2
	Apr. 20		258.9
	June 2		263.4
	July 13		268.1
	Aug. 24		271.8
	Sep. 14		272.8
	Oct. 26		274.0
	Dec. 7		270.7
C-337-G-16 657.0	Jan. 5		274.5
	Feb. 16		274.4
	Mar. 16		275.2
	Apr. 20		275.6
	May 11		278.1
	June 17		276.9
	July 13		277.4
	Aug. 24		278.6
	Sep. 14		279.8
	Oct. 5		281.0

a Spreading nearby.
b Meas. from L.A.Co.F.C.D.
c Pumping nearby.
d Dry at 132 ft.
Measts. by S.G.V.P.A. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-337-G-16	Nov. 16	280.8
Cont.	Dec. 7	280.9
C-338-G-16	Mar. 30	233.2
535.0	Dec. 7	242.6
	Dec. 28	243.0
C-343-H-16	Jan. 4	178.5
477.9	Feb. 1	177.6
	Mar. 1	177.3
	Apr. 5	177.8
	May 3	183.3
	June 7	184.8
	July 5	188.9
	Aug. 2	192.4
	Aug. 30	192.4
	Sep. 27	193.2
	Oct. 25	195.3
	Nov. 29	188.5
	Dec. 27	190.0
C-360-G-16	Jan. 4	185.7
462.4	Feb. 1	185.3
	Mar. 1	185.0
	Apr. 5	184.8
	May 3	185.9
	June 7	191.8
	July 5	194.0
	Aug. 2	196.1
	Sep. 6	198.7
	Oct. 4	199.5
	Nov. 8	199.9
	Dec. 6	195.0
C-362-G-15	Jan. 5	228.9
499.3	Feb. 16	228.8
	Mar. 16	229.3
	Apr. 20	226.6
	May 11	227.1
	June 17	230.2
	July 13	232.2
	Aug. 3	238.2
	Sep. 14	243.1

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-367-F-15	Jan. 4	280.0
548.9	Feb. 15	279.1
	Mar. 15	276.9
	Apr. 19	274.7
	May 10	275.5
	June 17	279.1
	July 12	281.1
	Aug. 23	284.6
	Sep. 13	286.0
	Oct. 25	288.0
	Nov. 16	288.9
	Dec. 27	288.3
C-376-G-11	Jan. 6	263.3
532.0	Feb. 17	263.2
	Mar. 16	263.4
	Apr. 21	263.4
	May 12	263.5
	June 3	263.6
	July 14	263.7
	Aug. 4	263.8
	Sep. 15	263.9
	Oct. 6	264.0
	Nov. 17	264.2
	Dec. 8	264.2
C-383c-I-13	Apr. 12 a	13.1
219.4	Dec. 5 a	13.0
C-401-F-16	Apr. 11 a	170.9
882	Nov. 21 a	177.4
C-401c-F-16	Jan. 5	259.5
704.7	Feb. 16	260.0
	Mar. 16	260.6
	Apr. 20	260.7
	May 11	261.1
	June 17	261.5
	July 13	262.1
	Aug. 3	262.6
	Sep. 14	263.6
	Oct. 5	263.8
	Nov. 16	267.1
	Dec. 7	266.2

a Meas. from L.A.Co.F.C.D.
Measts. by S.G.V.P.A. from L.A.Co.F.C.D.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-404a-F-17 1115.0	July 20	163.0
C-405-F-17 950	Jan. 1 a	432.3
	Feb. 1 a	428.3
	Mar. 1 a	428.3
	Apr. 1 a	428.6
	May 5 a	429.8
	June 8 a	432.6
	July 1 a	433.0
	Aug. 1 a	438.5
	Sep. 1 a	440.5
	Oct. 1 a	441.8
	Nov. 1 a	440.8
	Dec. 4 a	439.5
C-426a-F-17 896	Mar. 7	83.4
	Apr. 17	83.0
	Nov. 21	95.1
C-432-G-17 739.9	Apr. 12	68.7
	Dec. 1	65.5
C-444b-G-17 741.0	Jan. 18	198.6
	Feb. 15	198.4
	Mar. 22	198.0
	Apr. 11	198.0
	May 24	203.3
	June 21	203.8
	July 27	205.6
	Aug. 31	203.2
	Sep. 27	207.6
	Oct. 25	208.4
	Nov. 20	204.1
	Dec. 27	203.8
C-446a-G-17 880.6	Jan. 13	92.9
	Feb. 7	93.4
	Mar. 22	94.0
	Apr. 11	94.3
	May 10	94.5
	June 7	94.5
	July 26	94.1
C-446a-G-17 Cont.	Aug. 8	94.0
	Sep. 27	93.4
	Oct. 25	93.5
	Nov. 20	93.5
	Dec. 27	93.7
	1949	
C-446c-G-17 869.7	Jan. 27	204.9
	Feb. 28	202.0
	Mar. 22	201.8
	Sep. 21	224.0
	Nov. 18	232.5
	1950	
	Jan. 18	208.0
	Mar. 22	207.5
	Apr. 11	207.7
	May 23	210.6
	Aug. 3	217.9
	Sep. 12	219.1
	Oct. 25	217.1
	Nov. 29	212.0
	Dec. 13	210.6
C-446e-G-18 934.4	Apr. 12	187.7
	Nov. 27	190.4
C-453-G-17 531.1	Apr. 19	111.2
	Dec. 5	120.2
C-498-G-18 1046.1	Jan. 10	203.0
	Apr. 18	213.0
	Nov. 21	222.2
C-500-G-18 1029.0	Jan. 10	148.7
	Feb. 15	153.0
	Apr. 18	151.5
	May 23	156.8
	Nov. 21	164.9
	Dec. 13	161.8

a Meas. by owner from L.A.Co.F.C.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-512b-G-18	Apr. 12		91.0
983	Nov. 29		93.7
C-514-G-18	Jan. 4		112.0
971.0	Feb. 2		104.5
	Mar. 1		100.0
	Apr. 6		99.3
	May 4		129.9
	June 1		138.4
	July 6		158.6
	Aug. 10		157.0
	Sep. 6		165.2
	Oct. 5		169.3
	Nov. 1		165.7
	Dec. 6		133.4
C-522-G-18	Apr. 12		63.6
930	Nov. 20		71.8
C-522a-G-17	Jan. 18		86.1
906.6	Mar. 1		87.1
	May 23		95.2
	June 21		106.8
	Sep. 12		91.4
	Oct. 25		90.4
	Nov. 29		89.7
	Dec. 13		89.5
C-595-G-19	Apr. 26		168.5
1134.3	Nov. 27		167.4
C-603-G-19	Nov. 20	a	356
1076			
C-611-G-19	Apr. 18		392.5
1044.0	Dec. 12		297.5
C-612a-G-18	Apr. 18		164.9
1018	Nov. 22		168.2
C-649-G-19	Jan. 24		275
1030.3	Feb. 21		275

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-649-G-19	Mar. 8		274.2
Cont.	Apr. 18		270.7
	May 24	b	
C-655q-F-19	Apr. 10		37.5
1530.9	Dec. 6		44.0
C-656h-F-20	Apr. 10		28.1
1831.0	Dec. 6		34.1
C-656i-F-20	Apr. 10		20.6
2067	Dec. 6		27.6
C-658-G-20	Jan. 9	c	197.2
1482.0	Feb. 6	c	194.3
	Mar. 6	c	192.8
	Apr. 3	c	195.2
	Nov.	c	214.4
	Dec.	c	216.0
C-659i-G-20	Jan. 24		216.7
1511.8	Feb. 21		214.5
C-660c-G-19	Jan. 24		188.0
1319.4	Feb. 21		183.0
	Mar. 14		175.2
	Apr. 17		169.2
	Dec. 6		195.1
C-664-G-20	Jan. 16	d	306
1301.5	Feb. 16	d	297
	Mar. 24	d	291
	Apr. 24	d	305
	June 24	d	330
	July 24	d	324
	Sep. 15	d	325
	Nov. 15	d	355
	Dec. 8	d	355
C-666-G-19	Apr. 18		199.4
1114	Nov. 29		215.0

a Meas. by owner from L.A.Co.F.C.D.
b Dry at 277 ft.
c Meas. from owner.
d Air gage meas. by owner from L.A.Co.F.C.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-670h-H-19 950.0	Jan. 24		115.0
	Feb. 21		113.5
	Mar. 8		110.4
	Apr. 18		124.3
	May 24		132.6
	June 21		138.9
	July 19		142.0
	Aug. 8		147.4
	Sep. 13		152.3
	Oct. 18		157.2
	Nov. 8		157.4
	Dec. 20		152.1
C-676c-H-18 815	Apr. 25		160.2
C-678K-H-19 807.8	Apr. 5	a	120.7
	Apr. 25		115.8
	Nov. 5		116.9
C-701c-I-17 523.3	Feb. 1		36.7
	Mar. 1		34.2
	Apr. 19		31.7
	May 3		31.4
	June 7		38.0
	July 26		40.8
	Aug. 8		43.0
	Sep. 26		45.0
	Oct. 10		44.9
	Nov. 8		45.5
	Dec. 1		43.5
C-703-H-19 774	Apr. 25		124.3
	Dec. 5		129.1
C-705a-I-17 606.5	Apr. 19		28.9
	Dec. 1		33.2
C-707-I-17 455	Apr. 19		12.6
	Dec. 1		14.8
C-708-I-15 374	Apr. 19		48.4
	Nov. 24		58.7

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-803g-I-12 183	Jan. 4	b	51.9
	Feb. 1	b	50.1
	Mar. 1	b	48.5
	Apr. 5	b	48.5
	May 3	b	49.5
	June 7	b	52.0
	July 5	b	53.9
	Aug. 2	b	55.8
	Sep. 6	b	57.9
	Oct. 4	b	59.5
	Nov. 1	b	61.1
	Dec. 6	b	61.4
C-804q-I-13 230.5	Apr. 11		27.2
	Dec. 5		27.8
C-811a-I-11 152.1	Jan. 19	b	107.8
	Feb. 9	b	107.5
	Mar. 2	b	107.0
	Apr. 13	b	110.2
	May 4	b	113.0
	June 15	b	118.5
	June 6	b	119.4
	Aug. 17	b	124.6
	Sep. 7	b	124.2
	Oct. 19	b	125.6
	Nov. 9	b	125.6
	Dec. 21	b	123.4
C-812-I-11 143.4	Jan. 19	b	95.9
	Feb. 9	b	95.3
	Mar. 2	b	96.1
	May 4	b	99.8
	June 15	b	98.0
	July 6	b	99.2
	Sep. 7	b	108.4
	Oct. 19	b	111.6
	Nov. 9	b	105.7
	Dec. 21	b	105.0
C-825g-J-12 *	Apr. 19		60.2
	Nov. 6		70.4
	Nov. 27		68.9

* R.P. elev. 135.5 through Nov. 6, 1950; then 134.5.
a Meas. from S.B.Co.F.C.D.
b Meas. by S.G.V.P.A. from L.A.Co.F.C.D.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-829j-J-12 127.7	Jan. 1	a	56.2
	Feb. 5	a	56.6
	Mar. 4	a	56.8
	Apr. 1	a	57.5
	May 7	a	58.3
	June 4	a	68.6
	July 3	a	60.2
	July 30	a	61.4
	Sep. 3	a	62.4
	Sep. 30	a	63.4
	Oct. 29	a	64.3
	Dec. 2	a	65.2
C-832-J-11 *154.5	Jan. 4	a	99
	July 3	a	113
C-853-K-13 110	Jan. 19		57.8
	Feb. 9		58.0
	Mar. 2		59.0
	Apr. 13		61.8
	May 25		65.0
	June 15		67.8
	Sep. 28		71.5
	Oct. 19		70.9
	Nov. 9		71.4
	Nov. 30		68.1
	Dec. 21		69.2
C-853a-K-13 **	Jan. 19		76.0
	Feb. 9		75.8
	Mar. 2		76.0
	Apr. 13		74.8
	May 4		75.8
	July 27		79.7
	Aug. 17		80.8
	Sep. 7		81.7
	Oct. 19		82.9
	Nov. 9		83.0
	Dec. 21		83.4
C-853k-K-13 131.6	Jan. 19		61.4
	Feb. 9		61.6
C-853k-K-13 Cont.	Mar. 2		61.8
	Apr. 13		62.9
	May 4		63.9
	June 15		65.6
	July 16		69.0
	Aug. 17	b	
C-858-L-13 76.2	Jan. 31	c	38.6
	Feb. 28	c	38.5
	Mar. 28	c	42.4
	Apr. 25	c	51.8
	May 23	c	55.2
	June 23	c	58.9
	July 21	c	60.4
	Aug. 22	c	62.9
	Oct. 25	c	55.4
	Nov. 24	c	47.8
	Dec. 28	c	45.4
C-861-L-12 85.3	Jan. 30		38.7
	Feb. 9		39.0
	Mar. 2		36.5
	Apr. 13		40.5
	May 4		43.8
	June 15		49.6
	July 6		51.5
	Aug. 17		53.1
	Sep. 28		49.0
	Oct. 19		49.4
	Nov. 30		43.5
	Dec. 21		44.0
C-872-K-11 95.9	Jan. 19		39.4
	Feb. 9		39.0
	Mar. 2		39.3
	Apr. 13		42.8
	May 4		44.0
	June 15		47.7
	July 6		48.8
	Aug. 17		50.8
	Sep. 7		49.5
	Oct. 19		48.8
	Nov. 30		44.9
	Dec. 21		45.3

* New elev.; R.P. changed.
** R.P. elev. 126.2 through March 23, 1950; then 124.2
a Meas. by owner from L.A.Co.F.C.D.
b Dry at 71 ft.
c Meas. from O.Co.F.C.D.
Measts. by S.G.V.P.A. from L.A.Co.F.C.D.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-872a-K-11 87	Jan. 2		33.0
	Feb. 6		32.0
	Mar. 6		32.6
	Apr. 3		35.4
	May 1		37.7
	June 5		40.0
	July 3		43.6
	Aug. 7		45.2
	Sep. 4		44.1
	Oct. 2		42.5
	Oct. 30		40.7
	Dec. 4		38.3
C-877d-L-11 71.8	Jan. 19		25.2
	Feb. 10		24.5
	Mar. 3		25.5
	Apr. 14		29.0
	May 5		32.4
	June 16		37.7
	July 7		39.8
	Aug. 18		51.4
	Sep. 8		38.4
	Oct. 20		36.7
	Nov. 10		35.7
	Dec. 12		32.1
C-885c-L-11 58.0	Jan. 19		20.8
	Feb. 10		20.0
	Mar. 24		26.2
	Apr. 14		26.5
	May 5		29.6
	July 28		37.2
	Aug. 18		36.1
	Sep. 8		35.1
	Oct. 20		32.8
	Nov. 10		30.4
	Dec. 22		26.3
C-887-L-12 64.4	Apr. 12	a	34.8
C-891-L-13 58.2	Feb. 9		29.8
	Mar. 2		31.3
	Apr. 12		38.6
	May 4		47.0
	May 25		54.0
	July 7		61.7
	Aug. 17		65.8
	Sep. 7		59.6
	Sep. 28		56.6
	Nov. 9		52.4
	Dec. 21		38.2
C-894-L-13 61.7	Jan. 31	b	39.9
	Feb. 28	b	38.2
	Apr. 25	b	52.1
	May 23	b	56.7
	June 23	b	55.9
	July 21	b	57.0
	Aug. 22	b	69.5
	Sep. 22	b	54.7
	Oct. 25	b	56.0
	Nov. 24	b	48.9
	Dec. 28	b	45.4
C-896e-M-13 53.6	Jan. 31	b	31.6
	Feb. 28	b	32.4
	Mar. 28	b	40.2
	Apr. 25	b	48.0
	May 23	b	55.4
	June 23	b	62.0
	July 21	b	64.5
	Aug. 22	b	63.6
	Sep. 22	b	57.1
	Oct. 25	b	52.1
	Nov. 24	b	44.0
	Dec. 28	b	38.3
C-897k-M-13 45.2	Jan. 31	b	33.4
	Feb. 28	b	34.7
	Mar. 28	b	48.1
	Apr. 25	b	54.3

a Meas. from L.A.Co.F.C.D.
b Meas. from O.Co.F.C.D.
Measts. by S.G.V.P.A. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-897k-M-13 Cont.	May 23		58.7
	June 23		74.6
	July 21		74.0
	Sep. 22		74.0
	Oct. 25		69.0
	Nov. 24		56.0
	Dec. 28		33.2
C-900-M-13 35.3	Jan. 16	a	35.8
	Feb. 6	a	42.7
	Mar. 27	a	45.7
	Apr. 10	a	46.1
	May 1	a	51.8
	June 12	a	60.6
	July 3	a	67.6
	Aug. 14	a	74.9
	Sep. 4	a	69.8
	Sep. 25	a	62.4
	Nov. 6	a	55.8
	Nov. 27	a	44.5
C-908b-M-12 46.2	Jan. 20	a	46.4
	Feb. 10	a	53.7
	Mar. 3	a	59.9
	Apr. 18	a	50.7
	May 26	a	54.3
	June 16	a	59.8
	July 7	a	71.8
	Aug. 18	a	68.7
	Sep. 8	a	66.4
	Oct. 20	a	64.1
	Nov. 10	a	58.2
	Dec. 1	a	53.3
C-908e-M-12 32.5	Apr. 18	b	37.0
	Dec. 8	b	35.0
C-909-N-13 22.8	Jan. 26		38.1
	Feb. 23		47.8
	Mar. 30		39.8
	Apr. 28		36.6
	May 26		41.6
	June 27		47.2
C-909-N-13 Cont.	Aug. 24		59.4
	Oct. 26		42.4
	Dec. 1		32.9
	Dec. 29		32.1
C-910b-0-13 8.1	May 2	b	16.6
	Dec. 8	b	19.0
C-910j-0-12 17.8	May 19	c	25.8
	June 9	c	26.4
	June 29	c	30.4
	July 21	c	28.1
	Sep. 1	c	30.9
	Sep. 22	c	30.0
	Oct. 12	c	29.6
	Nov. 3	c	28.6
	Nov. 24	c	26.5
	Dec. 15	c	26.2
C-911-0-13 11.8	Jan. 13	a	18.1
	Feb. 3	a	22.6
	Mar. 17	a	29.5
	Apr. 17	a	22.0
	May 19	a	21.7
	June 9	a	22.9
	July 21	a	30.9
	Aug. 16	a	31.4
	Sep. 1	a	29.2
	Sep. 22	a	26.7
	Nov. 3	a	24.3
	Dec. 15	a	22.0
C-911b-N-13 13.8	Jan. 26		30.5
	Feb. 23		33.6
	Mar. 30		37.9
	Apr. 28		36.0
	May 26		37.0
	June 27		37.7
	July 25		43.0
	Aug. 24		45.5
	Sep. 26		44.5
	Oct. 26		44.9
	Dec. 1		41.2
	Dec. 29		41.2

a Meas. by S.G.V.P.A. from L.A.Co.F.C.D.
b Meas. from L.A.Co. F.C.D.
c Meas. by L.B.W.D. from L.A. Co.F.C.D.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-911f-O-12 8.5	Jan. 3		21.6
	Jan. 23		21.2
	Mar. 6		22.0
	Apr. 3		22.8
	May 1		22.6
	June 5		22.5
	June 26		22.6
	July 31		23.9
	Sep. 5		25.6
	Oct. 2		27.2
	Oct. 30		26.4
	Dec. 4		24.6
C-912b-O-13 32.0	Jan. 3		34.1
	Jan. 30		39.6
	Feb. 27		46.3
	Mar. 27		47.2
	May 1		42.2
	May 29		47.7
	July 3		53.8
	Aug. 7		59.9
	Sep. 5		54.2
	Oct. 2		50.1
	Nov. 6		46.6
	Dec. 4		40.4
C-912c-O-13 21.4	Jan. 13	a	29.4
	Feb. 3	a	37.0
	Mar. 17	a	43.7
	Apr. 7	a	35.1
	May 19	a	36.2
	Aug. 16	a	44.1
	Sep. 1	a	43.8
	Nov. 3	a	41.1
	Nov. 24	a	38.4
	Dec. 15	a	38.8
C-913c-N-11 37.5	Jan. 3	b	37.0
	Feb. 8	b	37.0
	Mar. 6	b	37.0
	Apr. 10	b	37.0
	May 10	b	37.4
C-913c-N-11 Cont.	June 5	b	37.1
	July 10	b	37.2
	Aug. 14	b	37.2
	Sep. 26	b	37.3
	Oct. 30	b	37.3
	Dec. 7	b	37.5
C-914b-N-12 31.4	Jan. 26		39.8
	Feb. 23		48.9
	Mar. 30		46.1
	Apr. 28		42.4
	May 26		45.9
	June 27		46.0
	July 25		52.5
	Aug. 24		51.0
	Sep. 26		49.8
	Oct. 26		48.1
	Dec. 1		44.6
	Dec. 29		50.3
C-926-M-11 68.9	Jan. 2	b	98.1
	Mar. 6	b	92.4
	Apr. 3	b	97.6
	May 1	b	100.7
	June 5	b	108.8
	July 3	b	114.6
	Aug. 7	b	120.3
	Sep. 4	b	120.1
	Oct. 2	b	118.5
	Oct. 30	b	116.7
	Dec. 4	b	111.8
C-927c-N-14 48.3	Mar. 9		61.2
	Apr. 11		57.8
	May 9		64.3
	June 9		69.3
	Aug. 2		86.9
	Sep. 7		73.1
	Oct. 10		67.9
	Nov. 10		65.5
	Dec. 12		55.8

a Meas. by S.G.V.P.A. from L.A.Co.F.C.D.
b Meas. from L.A.Co.F.C.D.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-929f-L-11 53.4	Jan. 2	a	75.5
	Feb. 6	a	69.8
	Mar. 6	a	67.8
	Apr. 3	a	76.2
	May 1	a	78.3
	June 5	a	89.0
	July 3	a	93.7
	Aug. 7	a	102.5
	Sep. 4	a	100.1
	Oct. 2	a	101.1
	Nov. 6	a	100.4
	Dec. 4	a	90.4
C-942a-K-14 144	Jan. 3	a	95.5
	Feb. 9	a	86.3
	Mar. 23	a	87.4
	June 15	a	95.0
	Sep. 29	a	108.1
	Oct. 20	a	110
	Nov. 30	a	105
	Dec. 21	a	97.2
C-950a-M-14 70.0	Jan. 31		67.9
	Feb. 28		70.8
	Mar. 28		78.7
	May 23		90.6
	June 23		99.8
	Aug. 22		106.4
	Oct. 25		92.1
	Nov. 24		76.2
	Dec. 28		68.4
C-950e-M-13 *	Jan. 31		32.7
	Feb. 28		34.2
	Mar. 28		44.0
	Apr. 25		48.1
	May 23		58.4
	June 23		63.1
	July 21		69.8
	Aug. 22		70.0
	Sep. 22		64.0
	Oct. 25		58.6
C-950e-M-13 Cont.	Nov. 24		45.5
	Dec. 28		40.7
C-950n-M-14 63.7	Jan. 12		60.6
	Feb. 9		65.1
	Mar. 9		68.3
	Apr. 11		74.5
	June 9		98.3
	Sep. 7		102.0
	Oct. 10		85.1
	Nov. 10		83.9
	Dec. 12		77.8
C-957-H-11 303.0	Jan. 1	b	89
	Feb. 28	b	89
	Apr. 30	b	87
	June 30	b	88
	July 27	b	88
	Aug. 31	b	88
	Sep. 31	b	87
	Dec. 31	b	87
C-960-I-11 192.9	Jan. 1	b	172
	Jan. 31	b	228
	Feb. 28	b	173
	Mar. 31	b	228
	Apr. 30	b	178
	May 31	b	224
	June 30	b	179
	July 27	b	181
	Aug. 31	b	181
	Oct. 31	b	180
	Dec. 31	b	180
C-961-I-11 197	Jan. 1	b	180
	Apr. 30	b	185
	June 30	b	208
	Oct. 31	b	207
	Dec. 31	b	199
C-962-I-11 196	Jan. 1	b	175
	Apr. 30	b	178
	June 30	b	192

* R.P. Elev. 49.5 through Aug. 22, 1953; then 48.0.
a Meas. by S.G.V.P.A. from L.A.Co.F.C.D.
b Meas. by owner from L.A.Co.F.C.D.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-962-I-11 Cont.	July 27	a	192
	Oct. 31	a	194
	Dec. 31	a	192
C-963-I-11 228.3	Jan. 1	a	209
	Apr. 30	a	212
	June 30	a	222
	July 27	a	224
	Aug. 31	a	227
	Oct. 31	a	228
	Dec. 31	a	225
C-965-I-11 159.5	Jan. 1	a	129
	Feb. 28	a	123
	Apr. 30	a	126
	June 30	a	134
	July 27	a	139
	Aug. 31	a	138
	Oct. 31	a	135
	Dec. 31	a	134
C-966-I-11 145.5	Jan. 1	a	113
	Apr. 30	a	120
	June 30	a	129
	July 27	a	134
	Aug. 31	a	135
	Oct. 31	a	131
	Dec. 31	a	130
C-968-K-15 350.9	Feb. 8		54.8
	May 18		57.2
	Aug. 17		55.7
	Nov. 17		55.2
C-969a-K-16 386.9	Feb. 8		111.6
	May 18		113.0
	Nov. 16		115.0
C-974m-L-16 176.2	Jan. 10		169.5
	Feb. 7		168.6
	Mar. 3		168.3
	Apr. 7		169.0
	May 5		169.7
C-974m-L-16 Cont.	June 8		171.4
	July 11		174.5
	Aug. 4		177.6
	Sep. 5		178.8
	Oct. 6		179.1
	Nov. 9		179.6
	Dec. 8		175.6
C-974n-M-16 197.8	Jan. 5		188.1
	Feb. 2		186.7
	Mar. 2		185.4
	Apr. 6		184.0
	May 4		184.7
	June 1		185.9
	July 6		189.1
	Aug. 3		196.8
	Sep. 8		194.9
	Oct. 5		200.1
	Nov. 2		196.0
	Dec. 7		193.5
C-975-L-16 155.6	Jan. 10		134.6
	Feb. 7		134.9
	Mar. 3		134.9
	Apr. 7		135.2
	May 5		135.6
	June 8		136.2
	July 11		138.2
	Aug. 4		139.2
	Sep. 5		140.4
	Oct. 6		138.8
	Nov. 9		138.8
	Dec. 8		137.9
C-975k-L-16 *	Jan. 10		123.7
	Feb. 7		123.0
	Mar. 3		122.7
	Apr. 7		123.2
	May 12		113.7
	June 8		116.0
	July 11		119.2
	Aug. 4		118.9
	Sep. 5		118.4

* R.P. elev. 141.4 through April 7, 1950; then 130.2
a Meas. by owner from L.A.Co.F.C.D.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-975k-L-16 Cont.	Oct. 6	119.7
	Nov. 9	119.7
	Dec. 8	118.8
C-976c-M-15 152.9	Jan. 1 a	148
	Feb. 1 a	142
	Mar. 1 a	144
	Apr. 1 a	146
	May 1 a	148
	June 1 a	152
	July 1 a	164
	Aug. 1 a	167
	Sep. 1 a	170
	Oct. 1 a	167
	Nov. 1 a	167
	Dec. 1 a	166
C-977b-M-16 167.9	Jan. 10	159.2
	Feb. 7	162.4
	Mar. 3	158.4
	Apr. 7	158.0
	May 5	161.5
	June 8	166.9
	July 11	171.7
	Aug. 4	176.0
	Sep. 5	179.0
	Oct. 6	181.9
	Nov. 9	179.9
	Dec. 8	166.4
C-978-M-16 173.8	Jan. 6	172.7
	Feb. 3	164.4
	Mar. 7	163.6
	Apr. 4	164.3
	May 2	165.0
	July 7	175.6
	Aug. 1	166.2
	Sep. 1	167.3
	Dec. 5	172.6
C-978a-M-16 149.8	Jan. 3	142.3
	Jan. 30	143.8
	Feb. 27	145.7
	Apr. 3	146.1
	May 1	146.7
	June 5	152.7
	July 3	156.3
	Aug. 7	178.0
	Sep. 5	179.9
	Oct. 2	177.0
	Oct. 30	156.2
	Dec. 4	149.3
C-980-L-15 113.3	Jan. 31	97.4
	Feb. 28	97.1
	Mar. 28	98.6
	Apr. 25	99.6
	May 23	105.4
	June 23	106.3
	July 21	110.7
	Aug. 22	113.4
	Sep. 22	112.4
	Oct. 25	109.2
	Nov. 24	105.6
	Dec. 28	104.2
C-9821-M-14 91.7	Jan. 12	55.4
	Feb. 9	52.9
	Mar. 9	52.6
	Apr. 11	52.9
	May 9	55.2
	June 9	55.4
	July 13	57.5
	Aug. 2	57.6
	Sep. 7	57.6
	Oct. 10	57.4
	Nov. 10	57.1
	Dec. 12	55.6
C-983-M-14 92.6	Jan. 12	57.0
	Feb. 9	55.8
	Mar. 3	55.6
	Apr. 7	55.8
	May 5	56.4

a Air meas. by owner from O.Co.F.C.D.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-983e-M-15 108.0	Jan. 10	101.1
	Feb. 7	98.5
	Mar. 3	100.4
	Apr. 7	102.7
	May 5	108.0
	June 8	109.2
	Aug. 4	112.6
	Sep. 5	111.4
	Oct. 6	110.4
	Dec. 8	106.9
C-984b-N-14 *64.7	Jan. 4	49.4
	Jan. 25	47.5
	Feb. 8	49.2
	Mar. 1	48.2
	Apr. 5	53.2
	May 3	57.2
	June 7	62.1
	July 5	64.0
	Aug. 9	69.9
	Sep. 6	65.2
	Oct. 4	62.3
	Nov. 1	60.0
	Dec. 6	52.6
C-985-N-14 60.6	Jan. 12	45.0
	Feb. 9	45.4
	Apr. 11	47.9
	June 9	55.4
	Oct. 10	56.2
	Nov. 10	55.1
	Dec. 12	48.9
C-986e-N-15 112.1	Jan. 13	107.0
	Feb. 10	105.8
	Mar. 10	106.0
	Apr. 13	106.7
	May 11	110.4
	June 13	111.5
	July 14	115.4
	Aug. 4	114.5
	Sep. 12	115.4
C-986e-N-15 Cont.	Oct. 17	116.7
	Nov. 16	114.8
	Dec. 14	114.0
C-991e-O-13 17.4	Jan. 4	22.8
	Feb. 1	33.3
	Mar. 1	38.5
	Mar. 29	33.9
	May 3	28.6
	May 31	32.5
	June 28	35.9
	Aug. 2	40.8
	Aug. 30	37.5
	Oct. 4	36.2
	Nov. 1	33.1
	Nov. 29	28.2
	Dec. 20	27.9
C-992b-P-14 22.2	Jan. 17	30.7
	Feb. 14	39.7
	Mar. 14	37.8
	Apr. 14	30.3
	May 12	32.0
	Aug. 8	39.7
	Sep. 14	36.4
	Oct. 19	35.3
	Nov. 17	32.6
	Dec. 12	29.6
C-992e-P-13 15.4	Jan. 13	19.1
	Jan. 30	28.1
	Feb. 20	34.4
	Apr. 10	26.4
	May 1	24.2
	June 5	29.3
	July 3	30.2
	July 31	34.1
	Aug. 28	32.0
	Oct. 2	30.4
	Oct. 30	28.4
	Dec. 4	23.7

* Correction to all previous bulletins; R.P. elev. should be as shown. Measts. from O.Co.F.C.D.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-993-P-14 27.9	Jan. 17	34.7
	Mar. 14	43.4
	Apr. 14	36.0
	May 12	36.8
	June 15	38.9
	July 14	43.0
	Aug. 8	44.7
	Sep. 14	42.6
	Oct. 19	40.6
	Nov. 17	38.0
	Dec. 15	35.0
C-997-P-14 56.1	Jan. 17	63.1
	Feb. 14	65.5
	Mar. 14	67.0
	Apr. 14	66.5
	May 12	65.8
	June 15	66.8
	July 14	67.3
	Aug. 8	68.3
	Sep. 14	68.6
	Oct. 19	68.2
	Nov. 17	68.3
	Dec. 15	66.4
C-997d-Q-14 52.8	Jan. 17	59.8
	Feb. 14	60.2
C-999f-P-14 49.1	Jan. 17	51.5
	Feb. 14	62.1
	Mar. 14	66.8
	Apr. 14	58.3
	May 12	58.4
	June 15	59.9
	July 14	62.6
	Aug. 8	63.5
	Sep. 14	61.7
	Oct. 19	60.4
	Nov. 17	58.7
	Dec. 15	56.4
C-1056-M-16 201.2	Feb. 3	199.7
	Mar. 7	191.5
	Apr. 4	190.3
C-1056-M-16 Cont.	May 2	191.0
	June 2	196.6
	Sep. 1	206.9
	Dec. 5	204.6
C-1058-M-17 203.8	Jan. 11 a	200.0
	Jan. 28 a	198.5
	Mar. 4 a	197.0
	Mar. 25 a	195.0
	Apr. 24 a	195.0
	May 28 a	198.0
	June 25 a	198.0
	Aug. 30 a	235
	Sep. 29 a	238
	Oct. 31 a	242
	Nov. 30 a	209
C-1065-M-16 202.0	Jan. 6	192.0
	Feb. 3	190.5
	Mar. 7	188.9
	Apr. 4	187.6
	May 2	188.0
	June 2	189.4
	Aug. 1	195.4
	Sep. 1	198.2
	Oct. 3	199.5
	Nov. 3	200.2
	Dec. 5	197.7
C-1073-M-17 215.9	Feb. 3	205.0
	Mar. 7	201.8
	Apr. 4	199.2
	Dec. 5	211.4
C-1078d-M-17 238.6	Jan. 6	215.6
	Feb. 3	208.6
	Mar. 7	184.4
	Dec. 5	193.9
C-1079a-M-17 248.3	Jan. 6	200.2
	Feb. 3	188.6
	Mar. 7	162.1
	Apr. 4	165.4
	Dec. 5	193.8

a Meas. from S.A.V.I. Co.
Measts. from O. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1082-L-18 260.5	Jan. 4	89.8
	Feb. 1	75.7
	Mar. 1	65.4
	Mar. 29	57.8
	Apr. 26	55.2
	May 24	55.7
	June 28	59.1
	July 19	61.6
	Aug. 2	63.5
	Sep. 13	68.6
	Oct. 4	70.7
	Nov. 1	73.8
	Dec. 6	76.5
C-1085-L-17 245	Jan. 6	208.6
	Feb. 3	205.9
	Mar. 7	205.6
	Apr. 4	201.7
	May 2	193.0
	June 2	193.0
	July 7	195.2
	Aug. 1	201.9
	Sep. 1	203.1
	Nov. 3	209.1
	Dec. 5	209.8
C-1089-L-16 228.8	Jan. 6	216.2
	Feb. 3	214.4
	Mar. 7	210.8
	May 2	208.3
	June 2	209.3
	Aug. 1	220.4
	Sep. 1	222.0
	Oct. 3	219.4
	Nov. 3	220.9
	Dec. 5	220.4
C-1097-L-17 336.2	Aug. 17	183.0
	Nov. 17	184.8
C-1105a-N-17 246.2	Jan. 24	241.6
	Feb. 21	239.9
	Mar. 24	238.6
C-1105a-N-17 Cont.	Apr. 21	237.6
	May 19	238.2
	June 22	238.9
	July 20	242.0
	Aug. 15	245.3
	Sep. 21	248.0
	Oct. 31	250.1
	Dec. 22	247.1
C-1105b-M-17 273.5	Jan. 24	271.8
	Feb. 21	270.3
	Mar. 24	269.1
	Apr. 21	268.1
	May 19	269.7
	June 22	272.6
	July 20	273.1
	Aug. 15	273.8
	Sep. 21	277.8
	Oct. 31	284.9
	Nov. 22	280.4
	Dec. 22	280.1
C-1109g-N-18 332.4	Feb. 21	329.0
	Mar. 24	326.0
	Apr. 21	325.4
	May 19	328.4
	June 22	334.3
	July 20	342.6
	Aug. 15	345.5
	Sep. 21	348.0
	Dec. 22	343.3
C-1109i-N-18 410.2	Jan. 24	69.7
	Feb. 21	62.2
	Mar. 24	69.3
	Apr. 21	69.2
	May 19	65.1
	June 22	67.0
	July 20	67.1
	Aug. 15	67.1
	Sep. 21	70.4
	Oct. 31	70.2
	Nov. 22	71.5
	Dec. 22	68.2

Measts. from O.Co.F.C.D.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-1112-N-18	Jan. 11	a	290
290.4	Jan. 28	a	290
	Mar. 4	a	289
	Mar. 25	a	288
	Apr. 24	a	289
	June 10	a	294
	June 25	a	295
	Aug. 30	a	330
	Sep. 29	a	312
	Oct. 31	a	341
	Nov. 30	a	340
C-1120-N-16	Jan. 4		144.7
*	Feb. 1		144.4
	Mar. 1		144.4
	Mar. 29		144.6
	May 3		144.7
	June 7		146.0
	July 5		146.9
	Aug. 2		149.2
	Aug. 30		150.3
	Oct. 4		151.6
	Nov. 1		151.6
	Dec. 6		150.0
C-1121b-N-17	Jan. 24		171.1
179.4	Feb. 21		170.7
	Mar. 24		170.4
	May 19		171.6
	Aug. 15		181.1
	Oct. 31		180.6
	Nov. 22		181.6
	Dec. 22		179.3
C-1122b-N-16	Jan. 6		151.0
**	Feb. 3		151.0
	Mar. 7		150.3
	Apr. 4		150.2
	May 2		150.6
	June 2		151.4
	July 7		152.3
	Aug. 1		152.9

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1122b-N-16	Sep. 1	153.6
Cont.	Oct. 3	154.4
	Nov. 3	155.0
	Dec. 5	155.3
C-1123b-N-16	Jan. 30	135.7
145	Mar. 6	139.2
	Mar. 27	144.4
	May 8	145.0
	May 29	147.7
	June 26	152.1
	July 24	157.8
	Aug. 28	162.0
	Oct. 16	165.5
	Oct. 30	153.9
	Dec. 4	147.2
C-1126b-M-16	Jan. 3	164.2
175.3	Jan. 30	163.4
	Mar. 6	163.3
	Apr. 3	162.0
	May 1	165.1
	May 22	166.4
	June 19	167.8
	July 3	167.7
	July 31	171.6
	Sep. 5	173.0
	Oct. 2	173.8
	Oct. 30	173.9
	Dec. 4	170.4
C-1128a-N-16	Feb. 10	134.4
140.1	Apr. 13	135.1
	May 11	137.5
	June 13	138.7
	July 14	140.4
	Aug. 4	141.2
	Sep. 12	142.7
	Oct. 17	143.5
	Nov. 16	143.6
	Dec. 14	142.0

* Correction to all previous bulletins: R.P. Elev. should be 153.5, from levels by O.Co.F.C.D.

** R.P. Elev. 162.7 through April 4, 1953; then 163.1.

a Meas. from S.A.V.I.Co.

Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1129m-N-16 136.1	Jan. 13	131.9
	Feb. 10	131.8
	Mar. 10	131.9
	June 13	136.3
	Aug. 4	139.1
	Oct. 17	141.7
	Nov. 16	141.8
	Dec. 14	137.0
C-1130a-N-15 107.4	Jan. 13	103.0
	Feb. 10	101.6
	Mar. 10	102.0
	Apr. 13	102.7
	June 13	106.9
	July 14	109.5
	Aug. 4	111.9
	Oct. 17	111.6
	Nov. 16	111.2
	Dec. 14	108.4
C-1131-N-17 160.2	Jan. 24	150.4
	Feb. 21	150.4
	Mar. 24	150.6
	Apr. 21	151.2
	May 19	151.3
	June 22	154.5
	July 20	155.7
	Aug. 15	155.7
	Sep. 21	161.9
	Oct. 31	164.8
	Nov. 22	158.5
	Dec. 22	161.1
C-1140e-N-16 119	Jan. 13	116.5
	Feb. 10	115.3
	Mar. 10	115.7
	Apr. 13	116.5
	May 11	118.8
	June 13	122.5
	July 14	123.4
	Aug. 4	124.7
C-1140e-N-16 Cont.	Sep. 12	141.3
	Oct. 17	142.8
	Nov. 16	125.6
	Dec. 14	122.0
C-1150b-N-17 206.3	Jan. 28 a	204.0
	Mar. 4 a	203.0
	Mar. 25 a	203.0
	Apr. 24 a	205.0
	May 26 a	204.0
	June 10 a	210.0
	June 25 a	210.0
	Aug. 30 a	283.0
	Sep. 29 a	290.0
	Oct. 31 a	295.4
	Nov. 30 a	296.6
C-1153b-O-15 93.6	Jan. 13	89.7
	Feb. 10	86.5
	Mar. 10	92.1
	May 11	96.2
	Nov. 16	95.8
	Dec. 14	95.6
C-1157a-N-15 85.0	Jan. 3	81.1
	Jan. 30	80.4
	Feb. 27	81.8
	Apr. 3	83.0
	May 1	84.2
	May 29	85.9
	June 26	89.2
	July 31	92.8
	Aug. 28	90.6
	Sep. 25	92.8
	Oct. 2	90.5
	Oct. 30	90.1
	Dec. 4	87.6
C-1160a-O-16 88.1	Jan. 13	79.7
	Feb. 10	80.9
	Mar. 10	85.1

a Meas. from S.A.V.I.Co.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1162-0-16	Jan. 13	87.9
96.6	Feb. 10	86.2
	Mar. 10	88.2
	Apr. 13	88.0
	May 11	92.8
	June 13	91.3
	July 14	92.6
	Aug. 4	93.5
	Sep. 12	94.3
	Oct. 17	95.1
	Nov. 16	94.4
	Dec. 14	92.4
C-1168-0-15	Jan. 13	71.2
75.5	Feb. 10	72.5
	Mar. 10	76.6
	Apr. 13	75.3
	May 11	77.8
	June 13	80.0
	Aug. 4	84.0
	Sep. 12	82.6
	Oct. 17	81.8
	Nov. 16	80.6
	Dec. 14	77.4
C-1180-P-17	Jan. 19	42.6
38.3	Feb. 16	56.8
	Mar. 17	66.9
	Apr. 18	57.4
	May 16	54.2
	June 16	54.9
	July 17	76.9
	Aug. 16	74.2
	Sep. 20	68.3
	Oct. 16	66.2
	Nov. 15	63.4
	Dec. 14	62.2
C-1193a-0-17	Jan. 24	163.6
171.1	Feb. 21	160.7
	Mar. 24	159.4
	Apr. 21	159.5
	May 19	164.6
	June 22	170.6
	July 20	171.4

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1195b-C-18	Jan. 4	184.6
180.7	Feb. 1	181.7
	Mar. 1	177.8
	Mar. 29	176.3
	May 3	178.4
	May 31	185.6
	July 5	187.3
	July 26	192.2
	Aug. 30	194.5
	Sep. 27	195.5
	Oct. 4	195.3
	Nov. 1	195.6
	Dec. 6	190.4
C-1197-0-17	Jan. 24	126.1
151.6	Feb. 21	124.9
	Mar. 24	124.4
	Apr. 21	124.5
	June 22	127.2
	July 20	128.1
	Sep. 21	129.8
	Nov. 22	125.7
	Dec. 22	128.0
C-1206b-P-17	Jan. 19	87.0
86.8	Feb. 16	87.9
	Mar. 17	90.6
	Apr. 18	93.4
	May 16	97.0
	July 17	113.2
	Oct. 20	116.4
	Nov. 21	107.7
	Dec. 14	95.6
C-1208b-P-18	Mar. 1 a	76.1
86.8		
C-1211a-P-18	Jan. 20 b	127.5
105.9	Feb. 17 b	112.4
	Mar. 21 b	107.0
	Apr. 20 b	97.6
	May 18 b	161.3
	June 20 b	165.8
	July 18 b	164.2
	Aug. 11 b	172.9

a Meas. from owner.

b Pumping nearby.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
C-1211a-P-18 Cont.	Sep. 19	a	172.3
	Oct. 24	a	152.1
	Nov. 24	a	146.2
	Dec. 21	a	142.4
C-1211c-P-18 156.5	Jan. 20		145.9
	Feb. 17		139.2
	Mar. 21		134.9
	Apr. 20		139.3
C-1211k-P-18 77.7	Jan. 20		80.6
	Feb. 17		72.0
	Mar. 21		70.7
	May 18		93.5
	June 20		106.3
	Aug. 11		119.9
	Sep. 19		109.8
	Oct. 24		105.5
	Nov. 24		99.8
	Dec. 21		94.6
C-1216b-P-19 220.2	Jan. 20		201.6
	Feb. 17		196.2
	Mar. 21		193.8
	Apr. 20		199.3
	July 18		233.8
	Oct. 24		233.8
	Dec. 21		219.4
C-1217a-Q-19 283.4	Jan. 20		257.5
	Feb. 17		255.0
	Apr. 20		259.0
	May 18		271.7
	June 20		280.1
	July 18		257.7
	Aug. 11		280.3
	Sep. 19		270.0
	Oct. 21		269.7
	Nov. 22		262.3
	Dec. 16		265.5
C-1220a-Q-18 155	Jan. 20		95.3
	Feb. 17		94.3
	Mar. 21		93.8
C-1220a-Q-18 Cont.	Apr. 20		94.9
	May 18		97.8
	July 18		107.4
	Aug. 11		100.6
	Sep. 19		102.4
	Oct. 24		103.1
	Nov. 24		101.9
	Dec. 21		102.5
C-1220p-Q-19 221.2	Jan. 20		156.2
	Feb. 17		155.5
C-1220t-Q-19 178.2	Mar. 1	b	144.5
	Nov. 15	b	201.8
	1949		
C-1222n-P-18 99.4	Feb. 23	b	80.7
	Nov. 3	b	160.6
	1950		
	Mar. 3	b	85.2
	July 4	b	163.0
	Nov. 1	b	152.6
C-1224-Q-18 96	Jan. 20		72.6
	Feb. 17		70.9
	Apr. 20		77.8
	May 18		91.6
	July 18		95.4
	Aug. 11		114.8
	Sep. 19		111.8
	Oct. 24		113.4
	Nov. 24		89.2
	Dec. 21		108.9
C-1225-Q-18 101.0	Jan. 20		17.4
	Feb. 17		17.5
	Mar. 21		17.7
	Apr. 20		17.8
	May 18		17.9
	June 20		18.1
	July 18		18.3

a Pumping nearby.
b Meas. from owner.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface Feet
	1950	
C-1225-Q-18 Cont.	Aug. 11	18.7
	Oct. 24	19.3
	Nov. 24	18.8
	Dec. 21	18.9
	1948	
C-1227c-P-18 69.7	Dec. 6 a	111.0
	1949	
	Feb. 23 a	59.2
	July 3 a	162.2
	Nov. 4 a	140.0
	1950	
	Mar. 3 a	61.6
	July 4 a	176.5
	Nov. 1 a	162.2
	1948	
C-1227f-Q-17 45.0	Dec. 17 a	50.2
	1949	
	Feb. 22 a	45.0
	July 8 a	75.4
	Nov. 5 a	60.0
	1950	
	Mar. 3 a	56.8
	July 3 a	67.9
	Nov. 20 a	76.0
C-1230-P-17 54.2	Jan. 19	29.9
	Feb. 16	31.1
	Apr. 18	29.7
	May 16	30.9
	June 16	31.0
	Aug. 10	33.8
C-1230-P-17 Cont.	Sep. 15	33.2
	Oct. 20	34.3
	Nov. 21	33.6
	Dec. 19	32.9
C-1231b-P-17 39.9	Jan. 19	45.8
	Feb. 16	51.2
	Mar. 17	72.8
	June 16	63.0
	Aug. 10	75.5
	Sep. 15	68.1
	Oct. 20	67.7
	Nov. 21	62.4
	Dec. 19	57.6
C-1237l-P-17 35.2	Jan. 19	30.5
	Feb. 16	38.2
	Mar. 17	41.2
	Apr. 18	38.9
	May 16	36.4
	June 16	38.3
	July 17	47.6
	Aug. 10	45.9
C-1243-Q-16 40.1	Jan. 19	26.9
	Feb. 16	28.2
	June 16	28.8
	July 17	35.1
	Aug. 10	30.6
	Sep. 15	30.9
	Oct. 20	30.9
	Nov. 21	30.8
	Dec. 19	29.8
C-1249-Q-16 40.2	Jan. 19	49.3
	Feb. 16	65.2
	Apr. 18	63.8
	May 16	59.2
	June 16	58.9
	July 17	66.9
	Aug. 10	67.3
	Oct. 20	60.8
	Nov. 21	58.2
	Dec. 19	55.2

a Meas. from owner.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
C-1250-P-15 *38.9	Jan. 30	44.0
	Feb. 20	54.9
	Apr. 3	51.9
	May 1	44.4
	June 19	47.5
	June 26	45.9
	July 17	48.9
	July 31	49.9
	Aug. 14	49.1
	Sep. 5	48.1
	Oct. 2	47.2
	Nov. 6	46.4
	Dec. 4	44.4
C-1255-P-15 27.4	Jan. 17	27.6
	Feb. 14	40.6
	Mar. 14	49.3
	Apr. 14	36.2
	May 12	36.7
	June 15	39.5
	July 14	44.9
	Aug. 8	46.4
	Sep. 14	41.5
	Oct. 19	38.3
	Nov. 17	35.6
	Dec. 15	33.0
C-1257-Q-15 14.0	Jan. 17	20.2
	Feb. 14	33.4
	Mar. 14	41.4
	Apr. 14	25.6
	May 12	25.0
	June 15	25.6
	July 14	29.3
	Sep. 14	27.2
	Oct. 19	25.2
	Nov. 17	25.1
	Dec. 15	21.6
C-1263-Q-14 4.9	Jan. 4	8.6
	Feb. 1	8.3
	Mar. 1	7.8
	Apr. 5	7.4
	May 3	7.3
C-1263-Q-14 Cont.	May 31	7.8
	June 28	8.6
	Aug. 2	9.7
	Oct. 4	10.1
	Nov. 1	9.9
	Dec. 6	9.3
C-1263a-Q-14 6.8	Jan. 11	8.8
	Feb. 1	10.9
	Mar. 8	19.2
	Apr. 5	14.7
	May 3	11.4
	June 7	11.3
	July 5	11.7
	Aug. 2	12.3
	Sep. 6	12.3
	Oct. 4	11.7
	Nov. 1	11.0
	Dec. 6	9.6
C-1264-Q-14 5.8	Jan. 17	7.0
	Feb. 14	9.5
	Mar. 14	12.0
	Apr. 14	7.0
	May 12	7.8
	June 15	8.4
	July 14	8.9
	Aug. 8	9.5
	Sep. 14	9.5
	Oct. 19	8.9
	Nov. 17	8.4
	Dec. 15	7.3
C-1265-Q-15 6.5	Jan. 17	9.7
	Feb. 14	17.8
	Mar. 14	22.4
	Apr. 14	13.9
	May 12	14.2
	June 15	12.4
	July 14	14.1
	Aug. 8	14.1
	Sep. 14	13.5
	Oct. 19	12.2
	Nov. 17	11.5
	Dec. 15	10.3

* New elev.; R.P. changed.
Measts. from O.Co.F.C.D. except as noted.

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

in District "D"

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-703a-H-20	Mar. 27	a	275.4
990	Dec. 14	a	279.0
D-705-F-20	Jan. 11		208.5
1831.5	Feb. 8		202.6
	Mar. 8		195.8
	Apr. 5		190.7
	May 3		188.0
	June 14		193.7
	July 12		198.8
	Aug. 9		203.9
	Sep. 6		207.5
	Oct. 4		212.1
	Nov. 1		214.3
	Dec. 13		213.3
D-705g-F-20	Jan. 3		223
1840.0	Feb. 6		211.5
	Mar. 6		204.3
	Apr. 3		203
	May 1		209.8
	June 5		238.8
	July 3		229.5
	Sep. 5		241.8
	Nov. 6		248.6
	Dec. 4		234.6
D-707-F-21	Jan. 11		358.5
1840.4	Feb. 8		358.5
	Mar. 8		358.5
	Apr. 5		359.5
D-708-F-21	Jan. 11		217.4
1492.5	Feb. 8		207.3
	Mar. 8		198.5
	Apr. 5		194.8
	May 3		204.5
	June 14		228.5
	July 12		251.6
	Aug. 9		264.1
	Sep. 6		273.8
	Nov. 1		284.4
	Dec. 13		277.5
D-711b-F-20	Mar. 31	a	385.1
1692			
D-711d-F-20	Mar. 27	a	324.3
1574.4			
D-713b-G-20	Jan. 9	b	345.7
1500	Feb. 6	b	342.4
	Mar. 6	b	341.7
	Apr. 3	b	338.7
	May 15	b	353.1
	Oct.	b	370.8
	Nov.	b	365.5
	Dec.	b	364.0
D-716-G-21	Feb. 13		493
1212.8	Mar. 6		492
	Apr. 3		492
	May 1		493
	Aug. 7		497
	Sep. 5		497
	Oct. 2		498
	Nov. 6		498
	Dec. 4		498
D-718a-G-20	Jan. 9	b	507.9
1215	Feb. 6	b	500.3
	Mar. 6	b	492.3
	Apr. 3	b	488.3
	May 15	b	484.7
	June 5	b	495.0
	Nov.	b	506.5
D-721b-G-20	Mar. 27	a	347
1049.4	Dec. 14	a	336.4
D-724-G-21	Mar. 31	a	450.1
1173			
D-727-H-21	Jan. 11		382.0
1093	Feb. 8		380.9
	Mar. 8		379.9
	Apr. 5		379.4

a Meas. from S.B.Co.F.C.D.
b Meas. from West End Consolidated Water Co.
Measts. from owner except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
D-727-H-21 Cont.	May 3 a	379.7
	June 14 a	381.1
	July 26 a	386.7
	Sep. 6 a	400.3
	Nov. 15 a	391.3
	Dec. 13 a	387.3
D-728-H-20 1032	Mar. 27	329.9
D-729-H-20 985	Mar. 27	290.0
	Dec. 14	297.1
D-734b-H-20 972.9	Mar. 27	275.1
D-743h-I-19 771	Mar. 29	91.6
	Nov. 29	99.0
D-743z-I-19 746.0	Jan. 4	69.1
	Feb. 3	67.2
	Mar. 2	67.4
	Apr. 3	71.9
	May 1	78.6
	June 2	91.9
	July 3	98.4
	Aug. 3	104.4
	Sep. 5	95.8
	Oct. 2	85.4
	Nov. 1	87.0
	Dec. 7	82.4
D-745-I-20 818.7	Apr. 5	141.9
D-748c-I-21 805.9	Apr. 4	134
D-750a-I-21 743.5	Mar. 28	87.8
D-751-I-20 765	Mar. 28	87.1
	Nov. 28	80.7
D-752-I-20 713.4	Mar. 28	65.5
	Nov. 29	66.0
D-753a-I-20 741.5	Mar. 29	76.1
	Nov. 29	80.5
D-753b-I-20 702.1	Mar. 29	43.6
	Nov. 29	48.6
D-754a-I-19 727.8	Mar. 29	55.5
	Nov. 29	69.9
D-757a-I-19 659.1	Jan. 4	50.2
	Feb. 3	49.3
	Mar. 2	49.5
	Apr. 3	49.4
	May 1	50.3
	July 3	51.0
	Sep. 5	53.5
	Oct. 2	52.5
	Nov. 1	53.6
	Dec. 7	52.5
D-759b-I-20 *669.0	Mar. 27	47.4
	Nov. 24	49.7
D-762a-I-21 692.6	Nov. 28	66.0
D-763-J-21 651.9	Jan. 4	41.2
	Feb. 3	39.0
	Mar. 2	37.2
	Apr. 3	39.0
	May 1	41.2
	June 2	41.3
	July 3	44.3
	Aug. 3	48.5
	Sep. 5	48.3
	Oct. 2	48.5
	Nov. 1	49.4
	Dec. 7	45.0

* New elev.; R.P. changed.
a Meas. from owner.
Measts. from S.B.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-766-J-20 605.8	Mar. 24		23.9
D-768-J-19 704.3	Nov. 30		35.9
D-768a-J-19 658.1	Mar. 29		25.8
	Nov. 30		27.2
D-771a-J-20 600.5	Jan. 10	a	17.4
	Feb. 2	a	16.2
	Mar. 3	a	15.1
	Apr. 7	a	17.0
	May 9	a	21.7
	June 7	a	22.4
	July 7	a	32.8
	Aug. 4	a	37.8
	Sep. 8	a	37.0
	Oct. 10	a	35.2
	Nov. 10	a	34.0
	Dec. 5	a	30.6
D-771e-J-20 583.8	Mar. 24		22.1
	Nov. 24		21.4
D-772-J-20 571.3	Jan. 10	a	3.8
	Feb. 2	a	3.1
	Mar. 28	a	2.7
	Apr. 4	a	3.9
	May 2	a	5.1
	June 26	a	5.8
	July 7	a	9.6
	Aug. 4	a	12.6
	Sep. 8	a	11.4
	Oct. 10	a	10.6
	Nov. 10	a	9.3
	Dec. 5	a	5.8
D-773-J-21 586.4	Mar. 27		8.7
	Nov. 27		15.3
D-775-J-21 *	Nov. 27		13.8

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-776c-J-20 555.1	Mar. 27		5.4
	Sep. 26		11.8
	Oct. 9		11.9
	Nov. 13		10.6
	Dec. 11		9.2
D-776e-J-21 573.7	Feb. 3		4.1
	Mar. 2		4.0
	Apr. 3		4.9
	May 1		7.2
	June 2		9.4
	July 3		12.9
	Aug. 3		13.7
	Sep. 5		15.3
	Oct. 2		14.6
	Nov. 1		13.0
	Dec. 7		8.5
D-777a-J-20 538.0	Mar. 24		3.3
	Nov. 22		6.2
D-780-K-20 523.9	Mar. 24		15.8
	Nov. 22		18.9
D-780b-K-20 535.8	Jan. 13	a	14.7
	Feb. 2	a	14.4
	Mar. 3	a	14.0
	Apr. 7	a	16.9
	May 9	a	15.3
	June 7	a	16.3
	July 7	a	31.3
	Aug. 4	a	32.4
	Sep. 8	a	19.7
	Oct. 10	a	18.0
	Nov. 10	a	17.2
	Dec. 5	a	15.8
D-782-K-21 552.6	Jan. 13	a	29.5
	Feb. 3	a	27.5
	Mar. 3	a	25.8
	Apr. 11	a	24.7
	May 9	a	24.3
	June 7	a	25.8

* Correction to previous bulletins: Beginning December 29, 1944, R.P. elev. should be 570.7.

a Meas. from O. Co. F.C.D.

Measts. from S.B. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
D-782-K-21 Cont.	July 7	27.3
	Aug. 4	27.5
	Sep. 8	29.9
	Oct. 17	31.0
	Nov. 10	31.5
	Dec. 8	31.3
D-783-K-21 540.3	Jan. 17	33.2
	Feb. 3	33.2
	Mar. 7	33.1
	Apr. 11	33.3
	May 9	33.4
	June 7	33.5
	July 11	33.8
	Aug. 8	34.0
	Sep. 12	34.3
	Oct. 17	34.4
	Nov. 21	34.5
	Dec. 8	34.4
D-784d-K-21 501.7	Jan. 13	1.6
	Feb. 2	1.4
	Mar. 3	1.0
	Apr. 7	4.7
	May 9	5.8
	June 7	3.9
	July 7	9.2
	Aug. 4	18.8
	Sep. 8	7.3
	Oct. 17	4.3
	Nov. 10	4.4
	Dec. 5	2.6
D-788-K-21 479.3	Jan. 16 a	5.3
	Feb. 17 a	4.9
	Mar. 17 a	4.8
	Apr. 17 a	5.2
	May 15 a	5.6
	June 1 a	5.8
	July 5 a	6.2
	Aug. 2 a	6.6
	Sep. 1 a	6.6
D-788-K-21 Cont.	Oct. 3 a	6.7
	Nov. 13 a	6.7
	Dec. 11 a	6.7
D-788a-K-21 489.5	Jan. 17	6.8
	Feb. 3	7.5
	Mar. 7	6.4
	Apr. 11	5.9
	May 12	7.0
	June 9	7.9
	July 11	8.6
	Aug. 8	9.1
	Sep. 12	9.2
	Oct. 17	9.0
	Nov. 21	8.7
	Dec. 8	8.5
D-789-L-21 478.4	Jan. 17	8.3
	Feb. 7	7.4
	Mar. 10	8.4
	Apr. 18	9.5
	May 12	9.2
	June 9	9.6
	July 11	10.3
	Aug. 7	10.3
	Sep. 5	11.2
	Nov. 6	11.3
	Dec. 8	10.6
D-801-K-21 563.9	Nov. 14 a	19.5
	Dec. 11 a	17.8
D-802-K-21 545.6	Jan. 17	29.2
	Feb. 3	29.5
	Mar. 7	27.2
	Apr. 11	32.6
	May 12	31.8
	June 9	31.1
	July 11	31.0
	Sep. 12	32.6
	Oct. 17	35.8
	Nov. 21	33.8
	Dec. 8	33.6

a Meas. from S.B.Co.F.C.D.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-811a-K-22 592.7	Nov. 21	a	65.7
D-812-K-22 562.8	Jan. 1		32.8
	Feb. 1		30.5
	Feb. 28		30.1
	May 26		30.9
	Nov. 3		35.4
	Dec. 1		34.1
D-813-K-22 547.4	Jan. 10		8.5
	Feb. 1		8.2
	Feb. 28		8.1
	Apr. 4		9.7
	May 2		9.0
	May 26		8.9
	July 3		10.4
	Aug. 1		10.8
	Sep. 1		10.1
	Oct. 3		9.6
	Nov. 3		9.2
	Dec. 1		8.7
D-902a-I-21 751.5	Apr. 4	a	98.6
	Dec. 7	a	106.0
D-905-J-21 632.2	Jan. 10		29.2
	Feb. 2		27.2
	Mar. 28		25.1
	Apr. 4		28.6
	May 2		29.8
	May 26		34.3
	July 3		37.0
	Dec. 5		34.0
D-905a-J-21 622.6	Jan. 10		24.2
	Feb. 2		19.8
	Feb. 28		22.2
	May 2		22.5
	Aug. 1		26.9
	Oct. 3		40.8
	Nov. 3		36.4
	Dec. 5		28.8
D-906b-J-21 594.1	Jan. 10		11.9
	Feb. 2		9.0
	Feb. 28		8.0
	Dec. 5		12.9
D-906d-J-21 602.8	Sep. 27	a	26.1
	Oct. 10	a	24.1
	Nov. 14	a	20.9
	Dec. 12	a	17.3
D-906i-J-21 *	Jan. 16	a	7.2
	Feb. 17	a	7.4
	Mar. 17	a	8.8
	Apr. 17	a	10.7
	May 15	a	9.4
	June 1	a	10.6
	Sep. 1	a	13.6
	Oct. 3	a	11.0
	Nov. 14	a	9.4
	Dec. 28	a	8.2
D-907a-J-22 606.9	Nov. 20	a	18.6
D-908a-J-22 626.0	May 26		34.2
	July 3		36.3
	Aug. 1		37.6
	Sep. 1		43.7
	Oct. 3		35.5
	Nov. 3		32.4
	Dec. 1		31.0
D-909-J-22 659.0	Jan. 10		39.6
	Feb. 1		38.0
	Feb. 28		35.8
	May 2		44.6
	July 3		52.8
	Aug. 1		52.6
	Sep. 1		60.0
	Dec. 1		44.9
D-910-I-22 **	Apr. 28	a	83.9
	Nov. 28	a	88.0

* Correction to all previous bulletins; R.P. elev. 564.1 through Apr. 1, 1946; then 563.6, levels by S.B.Co.F.C.D.

** Correction to all previous bulletins; R.P. elev. 724.8 through Apr. 14, 1944; then 725.5, levels by S.B.Co.F.C.D.

a Meas. from S.B.Co.F.C.D.

Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-913-I-22	Apr. 3		157.0
*	Dec. 6		161.0
D-914-I-22	Apr. 3		121.0
**			
D-915-I-22	Jan. 10	a	78.5
718.1	Feb. 1	a	76.8
	Feb. 28	a	75.9
	Apr. 4	a	78.0
	May 2	a	78.7
	May 26	a	81.5
	July 3	a	84.3
	Aug. 1	a	85.7
	Sep. 1	a	86.9
	Oct. 3	a	85.5
	Nov. 3	a	84.1
	Dec. 1	a	82.7
D-918d-J-22	Jan. 16		29.0
599.8	Feb. 17		29.1
	Mar. 17		29.6
	Apr. 17		30.1
	May 15		31.5
	June 1		31.6
	July 17		34.1
	Sep. 18		34.0
	Oct. 3		33.4
	Nov. 14		32.5
	Dec. 12		30.9
D-921a-J-22	Nov. 15		40.1
663.4			
D-922-I-22	Apr. 3		88.2
726.6	Dec. 6		89.5
D-922c-I-22	Mar. 22		69.8
712.6			
D-928-I-23	Jan. 10	a	63.4
702.6	Feb. 1	a	61.8
D-928-I-23	Feb. 28	a	60.6
Cont.	Apr. 4	a	61.2
	May 5	a	61.6
	May 26	a	62.8
	July 3	a	66.4
	Oct. 3	a	65.6
	Nov. 3	a	65.8
	Dec. 1	a	64.8
D-928a-J-23	Mar. 22		45.6
681.3	Nov. 15		51.0
D-929-J-23	Jan. 4		48.8
646.5	Feb. 3		47.8
	Mar. 2		47.2
	Apr. 3		47.4
	May 1		48.3
	June 1		49.6
	Aug. 3		51.6
	Oct. 2		52.7
	Nov. 1		53.4
	Dec. 7		51.3
D-929a-J-23	Jan. 10		45.2
652.6	Feb. 1		45.0
	Feb. 28		44.7
	Dec. 1		47.3
D-934-I-23	Mar. 22		67.0
716.0	Nov. 16		80.6
D-935-I-23	Mar. 23		116.3
785.3	Dec. 6		119.1
D-940b-I-23	Jan. 16		68.1
701.3	Feb. 17		67.8
	Mar. 17		67.7
	Apr. 17		67.7
	May 15		67.9
	June 1		68.0
	July 5		68.4
	Aug. 2		68.1

* Correction to all previous bulletins; R.P. elev. 827.8 through Jan. 19, 1936; then 828.2 from levels by S.B.Co.F.C.D.

** Correction to all previous bulletins; R.P. elev. 779.8 through Mar. 25, 1937; then 779.3 through Apr. 14, 1944; then 780.0 from levels by S.B.Co.F.C.D.

a Meas. from O.Co.F.C.D.

Measts. from S.B.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-940b-J-23 Cont.	Sep. 1	a	69.0
	Oct. 3	a	69.1
	Nov. 14	a	69.3
	Dec. 12	a	70.2
D-975c-I-25 817.6	Mar. 20	a	46.8
	Nov. 15	a	48.1
D-975d-I-25 770.7	Jan. 28		13.9
	Mar. 31		14.0
	May 19		13.8
D-983c-I-26 851.0	Feb. 27		57.0
	Mar. 31		57.1
	Apr. 28		57.3
	May 19		57.2
	June 24		58.2
	Aug. 12		57.8
	Oct. 14		57.8
	Nov. 18		57.7
	Dec. 16		57.7
D-984d-I-26 946.4	Jan. 4	a	112.8
	Feb. 3	a	111.7
	Mar. 2	a	109.6
	Apr. 3	a	105.4
	May 1	a	102.1
	June 2	a	105.5
D-985c-I-26 895.9	Jan. 28		72.0
	Feb. 27		72.4
	Mar. 31		71.6
	Apr. 28		72.2
	May 19		72.8
	Nov. 18		75.1
	Dec. 16		74.7
D-986-I-26 876.5	Feb. 27		58.6
	Mar. 31		59.4
	Apr. 28		59.6
	May 19		59.9

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-986-I-26 Cont.	Aug. 12		62.3
	Sep. 20		62.8
	Nov. 18		62.1
	Dec. 16		61.3
D-1001b-G-21 1420.3	Jan. 3		158
	Feb. 3		143
	Mar. 1		124
	Apr. 1		135
	May 3		148
	June 2		160
	Aug. 2		210
	Sep. 2		220
	Oct. 2		250
	Nov. 3		261
	Dec. 5		200
D-1001g-G-21 1360.6	Jan. 3		131
	Feb. 3		92
	Mar. 1		79
	Apr. 1		80
	May 3		102
	June 2		122
	July 2		170
	Aug. 2		200
	Dec. 5		150
D-1001i-G-21 1396.1	Jan. 3		133
	Feb. 3		118
	Mar. 1		110
	Apr. 1		107
	May 3		127
	June 2		150
	July 2		177
	Sep. 2		218
	Oct. 2		227
	Nov. 3		248
	Dec. 5		184
D-1002-G-21 1269.0	Mar. 31	a	78.8
	Dec. 15	a	85.5

a Meas. from S.B.Co.F.C.D.
Measts. from owner except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
D-1002b-G-21	Mar. 31	412.2
1164.3	Dec. 15	456.1
D-1007b-H-22	Apr. 3	154.4
870.8	Dec. 6	158.5
D-1012b-G-22	Mar. 22	105.1
1322.0	Dec. 11	125.6
D-1014-G-22	May 10	420
1203.6	July 10	433
	Aug. 5	433
	Sep. 15	409
D-1022-G-22	Mar. 31	321.6
1077.8		
D-1024-G-22	Mar. 31	483.5
1331.3		
D-1025-G-23	Apr. 6	457.7
1331.3	Nov. 30	443.4
D-1029-H-23	Mar. 24	227.0
974.6	Dec. 12	225.1
D-1030-H-23	Jan. 4	174.4
862.6	Feb. 3	174.5
	Mar. 2	174.2
	Apr. 3	174.1
	May 1	174.6
	June 2	174.4
	July 3	175.0
	Aug. 3	176.4
	Sep. 5	175.9
	Oct. 2	176.3
	Nov. 1	176.3
	Dec. 7	176.6
D-1031-H-23	Mar. 31	156.5
902.0	Dec. 5	158.6

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
D-1033-H-23	Jan. 4	281.1
1046.8	Mar. 2	280.9
	Apr. 3	281.3
	May 1	282.5
	June 2	282.4
	Aug. 3	282.6
	Sep. 5	283.1
	Oct. 2	282.9
	Nov. 1	283.0
	Dec. 7	282.6
D-1037-G-23	Apr. 6	424.8
1194.6		
D-1043-H-24	Mar. 31	128.5
882.9		
D-1043b-H-24	Mar. 31	169.9
937.5	Dec. 4	172.2
D-1044-H-24	Jan. 4	188.8
959.0	Feb. 3	189.1
	Mar. 2	188.5
	Apr. 3	188.3
	May 1	188.6
	June 2	189.1
	July 3	190.2
	Aug. 3	189.9
	Sep. 5	190.2
	Oct. 2	193.1
	Nov. 1	191.5
	Dec. 7	191.3
D-1050-G-24	Feb. 28 a	371.8
1165.7		
D-1050a-G-24	Feb. 28 a	446.4
1246.5	Nov. 30 a	448.0
D-1052-H-24	Feb. 28 a	293.3
1079.8	May 30 a	293.3
	Aug. 31 a	295.1
	Nov. 30 a	295.6

a Meas. from Fontana Union Water Co.
Measts. from S.B.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-1053-H-24 1024.9	Feb. 28		236.4
	May 30		236.4
	Aug. 31		237.1
	Nov. 30		238.1
D-1054c-H-24 964.4	Mar. 30	a	171.3
	Dec. 4	a	173.5
D-1055-H-24 979.9	Mar. 30	a	187.2
	May 30		187.1
	Dec. 4	a	189.5
D-1059-G-24 1210.5	Feb. 28		408.1
D-1061-G-25 1397.2	Apr. 10		570.2
	Dec. 4		574.1
D-1062-G-25 1247.8	Feb. 28		431.7
	Aug. 31		435.2
	Nov. 30		434.8
D-1062a-G-25 1236.4	Feb. 28		425.6
D-1064-H-25 1107.5	Feb. 28		299.9
	Aug. 31		305.5
	Nov. 30		302.5
D-1064a-H-25 1156.9	Feb. 28		346.4
	May 30		346.6
	Aug. 31		351.2
	Nov. 30		349.4
D-1064b-H-25 1142.5	Feb. 28		337.5
	May 30		337.7
	Aug. 31		340.5
	Nov. 30		340.7
D-1065-H-25 1050.0	Jan. 4	a	246.0
	Mar. 2	a	246.1
	Apr. 3	a	245.7
D-1065-H-25 Cont.	June 2	a	243.0
	Aug. 3	a	246.9
	Sep. 5	a	247.4
	Oct. 2	a	247.6
	Nov. 1	a	247.8
	Dec. 7	a	249.6
D-1068-H-25 1082.4	Jan.	b	247.5
	Feb.	b	247.8
	Mar.	b	246.3
	Apr.	b	246.1
	May	b	245.1
	June	b	246.4
	July	b	248.5
	Oct.	b	248.4
	Nov.	b	247.1
	Dec.	b	247.9
D-1072-G-25 1409.9	Jan. 13		274.8
	Feb. 14		270.1
	Apr. 14		266.0
	Oct. 13		299.7
	Nov. 13		280.5
	Dec. 14		274.7
D-1072a-G-25 1409.6	Jan. 13		260.8
	Feb. 14		276.6
	Mar. 14		279.6
	Apr. 14		272.9
	May 16		282.6
	June 13		287.5
	Sep. 14		303.6
	Nov. 13		288.6
	Dec. 14		282.9
D-1075-G-25 1180.8	Feb. 28		323.9
	May 30		325.3
	Nov. 30		325.0
D-1075a-G-25 1228.7	Feb. 28		376.9
	May 30		376.7
	Aug. 31		378.4
	Nov. 30		379.4

a Meas. from S.B.Co.F.C.D.
b Meas. from owner.
Measts. from Fontana Union Water Co. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-1077-H-25	Mar. 30	a	106.9
1030.2	Dec. 5	a	108.1
D-1081-H-26	Mar. 1	a	246.6
1105.7	Apr. 3	a	245.4
	May 1	a	246.7
	June 2	a	246.9
	July 3	a	247.2
	Aug. 3	a	247.9
	Sep. 5	a	248.4
	Oct. 2	a	248.8
	Nov. 1	a	248.9
	Dec. 7	a	248.8
D-1084-G-26	Apr. 6	a	295.3
1352.1	May 30		296.6
	Nov. 30	a	302.1
D-1085a-G-26	Apr. 6	a	296.1
1346.6	May 30		299.0
	Nov. 30		302.3
D-1088-H-26	Jan.	b	176.6
1037.6	Feb.	b	175.4
	Mar.	b	175.6
	Apr.	b	175.1
	May	b	176.2
	Dec.	b	178.7
D-1092c-H-26	Nov. 15	a	12.5
870.1			
D-1092d-H-26	Mar. 30	a	128.0
999.7	Dec. 1	a	131.6
D-1095-G-26	Jan.	b	189.7
1177.2	Apr.	b	188.6
	Dec.	b	205.4
D-1105-F-21	Jan. 11	b	386.4
1684.4	Feb. 8	b	379.4
	Mar. 8	b	373.0
	Apr. 5	b	369.3
D-1105e-F-21	Mar. 21	a	324.4
1635.			
D-1107l-F-22	Apr. 3	b	205.
1521.1	Apr. 3	b	201.6
D-1108-F-22	Mar. 31	a	336.9
1696.8	Dec. 18	a	337.0
D-1116a-F-22	Apr. 3	a	273.7
1881.0			
D-1161-E-25	Jan. 13		85.3
2244.1	Feb. 14		62.2
	Apr. 14		71.6
	Dec. 14		91.7
D-1162a-E-25	Jan. 13		120.4
2068.9	Feb. 14		110.1
	Mar. 14		86.7
	Apr. 14		91.4
	May 16		100.0
	Sep. 14		124.3
	Oct. 13		125.4
	Nov. 13		124.5
	Dec. 14		123.6
D-1164-E-25	Feb. 28		162.1
1806.6	May 30		153.4
	Aug. 31		157.3
	Nov. 30		160.8

a Meas. from S.B.Co.F.C.D.
b Meas. from owner.
Measts. from Fontana Union Water Co. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-1165-F-25	Feb. 28		365.0
1625.6	May 30		370.0
	Nov. 30		380.0
D-1166-F-25	Apr. 6	a	292.2
1525.4	Nov. 30	a	311.4
D-1177a-F-25	Feb. 28		392.0
1514.2	June 2		394.0
	Aug. 31		396.5
	Nov. 30		399.0
D-1182b-E-26	Jan. 13		333.6
1598.9	Feb. 14		334.2
	Mar. 14		334.7
	Apr. 14		335.7
	May 16		337.4
	June 13		340.6
	July 13		344.2
	Aug. 14		348.4
	Sep. 14		351.9
	Oct. 13		355.0
	Nov. 13		357.8
	Dec. 14		360.3
D-1182c-E-26	Jan. 13		290.9
1550.5	Feb. 14		293.0
	Mar. 14		292.5
	Apr. 14		292.0
D-1184-E-26	Feb. 16	b	150.9
1879.0	July 6	b	170.0
	Aug. 31	b	154.1
	Nov. 3	b	155.3

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
D-1188a-F-26	Jan. 13		210.1
1455.9	Feb. 14		207.8
	Mar. 13		206.9
	Apr. 13		206.2
	May 15		239.0
	June 13		246.4
	July 13		254.0
	Aug. 14		263.0
	Sep. 14		270.9
	Oct. 13		276.7
	Nov. 13		284.5
	Dec. 14		279.7
D-1188h-F-26	Feb. 18	b	84.6
1496.4	July 6	b	86.0
	Aug. 31	b	86.0
D-1189-F-26	Jan. 1	c	178
1363.	Feb. 6	c	177
	Mar. 6	c	174
	Apr. 3	c	171
	May 14	c	185
D-1192c-F-26	Jan.	c	228.2
1367.4	Feb.	c	231.4
	Mar.	c	229.1
	Apr.	c	200.1
	Oct.	c	289.2
	Nov.	c	266.8
	Dec.	c	242.6
D-1253-D-24	Jan. 13		17.3
2760.	Feb. 14		19.6
	Mar. 14		19.3
	Apr. 13		18.6
	Dec. 14		19.7

a Meas. from S.B.Co.F.C.D.
b Meas. from S.B.W.D.
c Meas. from owner.
Measts. from Fontana Union Water Co. except as noted.

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

in District "E"

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-2-E-27	Jan. 18		183.0
*	Feb. 16		183.4
	Mar. 22		182.4
	Apr. 1		183.4
	July 5		184.7
	July 17		185.7
	Aug. 4		183.3
	Aug. 15		187.0
	Sep. 21		192.1
	Nov. 15		197.9
	Dec. 12		196.8
E-2a-E-27	Jan. 18		209.1
1531.2	Feb. 17		208.9
	Mar. 22		208.6
	Apr. 20		223.8
	July 5		222.4
	Sep. 21		217.8
	Oct. 13		217.6
	Nov. 3		217.5
	Dec. 12		217.7
E-4a-F-27	Feb. 18	a	183.5
1303.4	Apr. 20	a	185.4
	July 6		187.4
	Aug. 31		191.5
E-5d-F-27	Feb. 18		221.8
1279.8	Apr. 21		231.3
	Aug. 31		236.3
	Nov. 3		240.4
E-5e-F-27	Feb. 18		145.8
1258.4	Nov. 3		159.2
E-6-F-27	Jan. 18		195.2
1248.0	Feb. 21		190.7
	Mar. 23		200.2
	Apr. 21		208.5
	May 15		214.4
	June 22		228.0
	July 7		228.4

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-6-F-27	Aug. 7		237.7
Cont.	Oct. 26		249.1
	Nov. 30		240.8
E-7-G-27	Feb.	b	68.8
1160.5	Mar.	b	68.5
	Apr.	b	70.2
	Dec.	b	85.4
E-8a-G-27	Feb. 21		171.2
1200.1	Apr. 21		170.8
	July 7		180.2
	Sep. 5		186.2
E-10-E-27	Jan. 19		162.0
1412.0	Feb. 17		162.6
	Mar. 22	a	163.3
	Apr. 20	a	165.7
	May 1	a	166.7
	Aug. 15		173.8
	Sep. 21		176.7
	Oct. 13	a	176.7
	Nov. 15		174.3
	Dec. 15	a	174.3
E-15-G-27	Feb. 21		35.6
1116.2	Apr. 21		44.5
	July 7		53.8
	Sep. 5		55.6
	Nov. 6		57.2
E-22-G-27	Feb. 21		22.9
1082.9	Apr. 21		25.8
	July 13		28.4
	Sep. 15		30.1
	Nov. 6		32.7
E-23-G-27	Apr. 21		29.0
1069.9	July 13		35.2
	Sep. 15		36.4
	Nov. 6		36.9

* R.P. Elev. 1621.9 to July 17, 1950; then 1622.0
a Pumping nearby
b Meas. from owner.
Measts. from S.B.W.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
E-27-F-28	Feb. 18	33.4
1110.1	Apr. 21	34.2
	July 7	35.8
	Sep. 1	38.8
	Nov. 6	39.1
E-29-G-28	Feb. 14	+48.5
1031.3	Mar. 23	+40.0
	Apr. 18	+39.3
	May 2	+34.1
	June 27	+32.3
	Aug. 29	+26.0
E-29h-G-27	Feb. 21	a
*	Apr. 21	5.5
	July 13	13.6
	Sep. 15	14.8
	Nov. 7	14.2
E-34b-F-28	Feb. 16	172.2
1319.2	Apr. 20	167.9
	July 6	171.6
	Aug. 31	173.4
	Nov. 2	174.4
E-35c-F-28	Feb. 16	131.6
1227.0	Apr. 20	126.6
	July 6	129.2
E-36-F-28	Jan. 18	75.3
1161.8	Feb. 18	74.1
	June 7	80.0
	July 11	86.1
	Sep. 28	90.5
	Nov. 21	88.9
E-37-F-28	Feb. 18	43.2
1130.3	Apr. 18	53.4
	July 7	59.7
	Aug. 21	66.6
	Sep. 1	66.6
	Nov. 6	66.4

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
E-42-G-28	Jan. 9	+20.8
1059.3	Feb. 12	+27.7
	Apr. 11	+18.5
	Aug. 11	6.8
	Sep. 11	5.8
	Oct. 24	5.7
	Nov. 15	2.8
	Dec. 31	3.4
E-43-G-28	Feb. 14	+41.6
1053.8	Apr. 18	+23.7
	June 27	+19.1
	Aug. 29	+16.2
	Nov. 1	+15.0
E-44-F-28	Feb. 16	93.7
1203.6	Apr. 19	93.9
	June 29	96.5
	Aug. 29	97.2
	Nov. 2	100.9
E-45e-F-29	Feb. 16	109.9
1212.5	Apr. 19	107.4
	Aug. 30	111.4
E-46-G-28	Feb. 18	12.2
1085.5	Apr. 26	13.5
	July 7	13.1
	Aug. 22	17.1
	Sep. 1	16.8
	Nov. 6	18.1
E-49-F-29	Feb. 16	165.3
1269.8	Apr. 19	161.1
	June 29	167.6
	Aug. 30	171.8
	Nov. 2	177.3
E-49d-F-29	Feb. 16	173.6
1282.5	Apr. 19	177.0
	Nov. 9	190.4

* R.P. elev. 1047.5 to Apr. 21, 1950; then 1047.6
a Flowing slightly.
Measts. from S.B.W.D.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-50a-F-29 1150.1	Feb. 14		41.8
	Apr. 18		48.2
	June 27		56.3
	Aug. 29		61.6
	Nov. 1		63.4
E-54-F-29 *1413.0	Feb. 16		280.9
	Apr. 19		278.4
	Aug. 29		298.2
	Nov. 1		296.0
E-55b-G-29 1284.7	Apr. 18	a	160.6
	June 29	a	165.9
	Aug. 29		170.8
E-57-G-29 122.2	Feb. 14		93.8
	Apr. 18		93.0
	June 27		100.0
	Aug. 29		105.7
	Nov. 1		111.1
E-59-G-29 1239.1	Feb. 14		106.7
	Apr. 18		104.4
	June 29		114.0
	Aug. 29		119.6
	Nov. 1		124.5
E-59a-G-30 1266.5	Feb. 14		126.4
	Apr. 18		125.2
	June 29		131.6
E-61d-G-30 1397.4	Feb. 8	b	156.8
	Apr. 3	b	156.6
	Nov. 15	b	161.8
E-62a-G-30 1541.6	Feb. 14		272.1
	Apr. 19		274.6
	Dec. 22		290.2
E-67h-I-26 862.6	Jan. 28		11.2
	Feb. 27		9.4
	Mar. 31		9.6
E-67h-I-26 Cont.	Apr. 28	c	10.0
	May 19	c	9.8
	June 24	c	11.1
	July 15	c	12.2
	Aug. 12	c	13.5
	Sep. 20	c	14.4
	Oct. 14	c	14.8
	Nov. 18	c	14.8
	Dec. 16	c	14.5
E-68g-I-26 827.	Jan. 3	d	12.3
	Feb. 1	d	11.4
	Mar. 1	d	10.7
	Apr. 3	d	11.3
	May 1	d	11.4
	June 1	d	12.2
E-74-I-27 882.6	Jan. 3	d	51.5
	Feb. 1	d	52.1
	Mar. 1	d	51.8
	Apr. 3	d	50.6
	May 1	d	50.7
	June 1	d	50.6
	July 6	d	57.0
	Aug. 1	d	58.2
	Sep. 11	d	59.0
	Oct. 2	d	56.0
	Nov. 3	d	55.2
	Dec. 5	d	54.8
E-74i-I-27 963.3	Jan. 3	d	110.5
	Feb. 1	d	110.3
	Mar. 1	d	109.6
	Apr. 3	d	110.4
	May 1	d	108.6
	June 1	d	108.5
	July 6	d	109.2
	Aug. 1	d	110.0
	Sep. 11	d	111.6
	Oct. 2	d	112.1
	Nov. 3	d	112.8
	Dec. 5	d	113.3

* New elev.; R.P. changed.
a Pumping nearby.
b Meas. from S.B.V.W.C.D.
c Meas. from owner.
d Meas. from Riverside Water Basin Records.
Measts. from S.B.W.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-75-H-27	Jan. 28	a	35.9
921.2	Feb. 27	a	28.1
	Mar. 31	a	24.9
	Apr. 28	a	25.8
	May 19	a	27.4
	June 24	a	32.5
	July 15	a	35.8
	Aug. 12	a	40.2
	Sep. 20	a	44.6
	Oct. 14	a	46.1
	Nov. 18	a	47.4
	Dec. 16	a	46.6
E-78-G-27	Jan. 30	a	34.0
1094.5	Feb. 28	a	44.0
	Mar. 30	a	48.0
	Apr. 28	a	57.0
	May 31	a	78.0
	June 29	a	100.0
	July 27	a	110.0
	Aug. 29	a	100.0
	Sep. 29	a	98.0
	Oct. 28	a	97.0
	Nov. 29	a	55.0
	Dec. 29	a	69.0
E-85-G-27	Feb. 21		22.6
1054.9	Apr. 25		27.4
	June 12		32.8
	Sep. 5		34.2
	Nov. 6		36.1
E-90b-H-27	Jan. 28	b	7.8
959.6	Mar. 31	b	6.2
	May 19	b	10.2
	July 15	b	14.7
	Sep. 20	b	19.1
	Nov. 18	b	21.0
E-93-G-28	Feb. 21		+53.1
	Apr. 25		+27.7
	Dec. 20		+25.4

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-95-H-27	Jan. 28	a	94.0
1013.7	Mar. 31	a	88.5
E-95a-H-27	Jan. 28	b	52.5
969.7	Mar. 31	b	44.4
	May 19	b	50.3
	July 15	b	58.8
	Sep. 20	b	64.7
	Nov. 18	b	65.5
E-97-G-28	Feb. 21		8.3
1061.3	Apr. 25		44.6
	Nov. 7		50.5
E-1025-H-28	Feb. 22		+9.8
1069.7	Apr. 25		17.0
	July 19		35.7
	Sep. 15		25.9
	Nov. 7		35.3
E-103g-H-28	Jan. 9	c	58.5
1132.0	Feb. 28	c	50.1
E-104-H-28	Jan. 10	c	217.0
1310.5	Mar. 1	c	212.9
	May 9	c	209.5
	July 14	c	229.3
	Sep. 8	c	245.8
	Nov. 1	c	242.8
E-106c-H-29	Jan. 10	c	51.5
1163.9	Feb. 9	c	47.8
	Mar. 7	c	47.5
	Apr. 4	c	51.9
	May 9	c	54.2
	June 14	c	58.6
	July 14	c	61.6
	Aug. 2	c	60.0
	Sep. 8	c	63.0
	Oct. 3	c	61.9
	Dec. 12	c	61.5

* R.P. elev. 1011.8 to Dec. 20, 1950; then 1008.7.
a Meas. from owner.
b Meas. from Riverside Cement Co.
c Meas. from S.B.V.W.C.D.
Measts. from S.B.W.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-106f-H-29 1140.9	Jan. 10		56.9
	Feb. 8		54.0
	May 10		70.0
	Aug. 2		74.2
	Sep. 7		75.6
	Oct. 3		98.5
	Nov. 1		89.0
	Dec. 11		73.0
E-107b-H-29 1206.9	Jan. 9		85.3
	Feb. 7		81.9
	Mar. 1		80.1
	Apr. 4	a	87.8
	May 9		94.1
	June 14		98.8
	July 14		104.2
	Aug. 2	a	104.5
	Sep. 8		107.4
	Oct. 3	a	108.9
	Nov. 1		108.5
	Dec. 12		101.8
E-107d-H-29 1217.8	Jan. 10		72.8
	Mar. 1		72.3
	May 9		73.5
	July 14		74.1
	Sep. 8		76.4
	Oct. 31		77.3
E-109-G-29	Jan. 7	b	49.2
	Feb. 4	b	47.1
	Mar. 4	b	44.1
	Apr. 4	b	43.1
	Apr. 29	b	43.6
	June 3	b	46.5
	July 1	b	49.2
	July 29	b	51.2
	Sep. 2	b	54.7
	Sep. 30	b	56.8
	Nov. 4	b	58.9
	Dec. 2	b	59.8

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-110-H-29 1207.2	Jan. 10		59.5
	Feb. 8		59.4
	Mar. 7		59.6
	Apr. 5	c	60.4
	May 10		61.8
	June 14		62.9
	July 13		64.1
	Aug. 1		64.8
	Sep. 7		66.0
	Oct. 3		66.7
	Nov. 1		67.4
	Dec. 12		68.1
E-111-H-29 1249.2	Mar. 1		100.9
E-111h-H-29 *	Jan. 10		53.9
	Feb. 9		54.8
	Mar. 7		53.2
	Apr. 5		66.7
	June 14		67.5
	July 14		68.5
	Aug. 1		68.7
	Sep. 8		69.5
	Oct. 3		69.8
	Dec. 12		70.0
E-113-G-29 1293.1	Jan. 9		115.9
	Feb. 8		114.5
	Mar. 3		111.9
	Apr. 5		125.2
	July 12		121.8
	Aug. 1		124.0
	Sep. 7		132.5
	Oct. 30		136.7
E-114-H-29 1322.3	Jan. 9		139.8
	Feb. 8		138.0
	Mar. 3		136.5
	Apr. 5		138.9
	May 10		142.7

* R.P. elev. 1246.5 through May 28, 1950; then 1245.0 through Dec. 11, 1950; then 1244.9.
a Pumping nearby.
b Meas. from owner.
c Pumping level.
Measts. from S.B.V.W.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-114-H-29 Cont.	June 14		147.4
	July 14		152.9
	Aug. 1		154.8
	Sep. 7		159.3
	Oct 4		159.8
	Oct. 30		160.8
	Dec. 12		156.0
E-117-I-30 1438.6	Jan. 10		77.6
	Mar. 1		77.4
	May 9		77.0
	Sep. 8		86.6
	Oct. 30		84.6
E-119a-H-30 1397.8	Feb. 8		192.4
	Mar. 3		191.1
	Apr. 4	a	196.7
	May 5	a	205.0
	June 13		199.0
	July 12	a	206.7
	Aug. 1		205.4
	Sep. 1		213.8
E-120-H-30 1523.5	Feb. 9		158.4
	Mar. 2		158.6
	Apr. 5		155.8
	May 5		254.0
	June 5		255.2
	July 11		258.7
	Aug. 1		257.1
	Sep. 8		257.7
	Oct. 27		262.0
	Dec. 11		262.7
E-122-I-30 1513.3	Jan. 10		77.9
	Mar. 1		78.5
	May 9		78.8
	July 14		79.2
	Sep. 8		79.9
	Oct. 30		80.5
E-123c-H-30 1521.1	Feb. 8		249.1
	Mar. 2		246.6
	Apr. 4		248.1
	May 2	b	288.5
E-124-H-30 1608.5	Mar. 2		111.0
	May 5		110.8
E-127-G-31 1907.0	Feb. 8		93.0
	Mar. 2		93.2
	Apr. 4		92.9
	July 11	b	113.0
	Aug. 1		94.3
	Sep. 4		100.3
	Nov. 11		104.9
E-127a-H-31 1724.8	Apr. 4		165.0
	May 5		172.1
E-127b-G-31 1765.7	Mar. 2		231.0
E-127d-H-31 1836.2	Mar. 2		83.1
	May 5		85.9
	July 11		80.7
	Oct. 27		81.9
E-128-H-31 1710.5	Mar. 2		126.9
	Nov. 15		152.7
E-131e-H-32 2198.9	Feb. 8		41.5
	Mar. 2		35.2
	June 12		80.5
	Dec. 12		53.7
E-132-I-32 2131.8	Apr. 4	c	133.5
	Oct. 3	c	135.4
E-133-I-31 2098.8	Apr. 4	c	138.0

a Pumping nearby.
b Pumping level.
c Meas. from P.E. Hicks.
Measts. from S.B.V.W.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-136-I-32	Apr. 4		114.5
2292.6	Oct. 3		137.5
E-136c-I-32	Mar. 29		178.0
2360.2	Nov. 3		199.8
E-136f-I-32	Mar. 29		234.0
2424.7	Nov. 3		246.2
E-136i-I-32	Apr. 4		300.0
2392.6	Oct. 3		226.5
E-137-H-32	Mar. 29		234.2
2653.5	Nov. 3		248.2
E-138-I-32	Mar. 29		217.1
2419.8	Nov. 3		232.1
E-138f-I-33	July 29		383.0
2623.2	Oct. 3		389.3
E-139a-H-33	Mar. 29		281.8
2816.9	Nov. 3		288.0
E-140-H-33	Mar. 29		62.2
3107.7	Nov. 3		68.6
E-140c-H-33	Mar. 29		31.7
3338.3	Nov. 3		33.2
E-141-I-33	Mar. 29		63.4
2812.6			
E-147b-K-21	Jan. 19	a	2.7
493.8	Feb. 10	a	1.8
	Mar. 14	a	2.8
	Apr. 18	a	2.9
	May 16	a	2.9
	June 13	a	3.2
	July 18	a	3.7
	Aug. 15	a	3.8
	Sep. 15	a	3.6

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-147c-L-21	Jan. 19	a	3.8
501.8	Feb. 10	a	3.0
	Mar. 14	a	3.5
	Apr. 18	a	3.6
	May 16	a	3.8
	June 13	a	4.3
	July 18	a	5.0
	Aug. 15	a	5.4
	Sep. 18	a	5.6
	Oct. 24	a	5.6
	Nov. 22	a	5.2
	Dec. 12	a	5.1
E-149d-K-22	Jan. 24		47.3
570.9	Feb. 15		47.0
	Mar. 17	b	46.8
	Apr. 25	b	47.6
	May 23	b	47.4
	June 23	b	48.1
	July 21	b	48.8
	Aug. 18		48.3
	Sep. 26	b	49.4
	Oct. 27	b	49.8
	Nov. 24	b	49.2
	Dec. 14	b	48.7
E-149i-K-22	Jan. 4	c	55.6
587.9	Feb. 2	c	55.3
	Mar. 2	c	55.5
	Apr. 4	c	55.5
	May 2	c	55.7
	June 2	c	55.7
	July 5	c	56.0
	Aug. 2	c	56.2
	Sep. 2	c	56.2
	Oct. 3	c	56.2
	Nov. 3	c	56.2
	Dec. 5	c	55.7
E-150-K-22	Jan. 4	c	87.0
602.7	Feb. 2	c	86.3
	Mar. 2	c	86.5

a Meas. from O.Co.F.C.D.
b Pumping nearby.
c Meas. from Riverside Water Basin Records.
Measts. from P.E. Hicks except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-150-K-22 Cont.	Apr. 14	a	87.2
	May 2	a	87.8
	June 2	a	87.6
	July 5	a	88.9
	Aug. 2	ab	103.8
	Oct. 3	a	90.7
	Nov. 3	a	90.8
	Dec. 5	a	90.0
E-150b-K-22 *	Jan. 24		48.0
	Feb. 15		47.4
	Mar. 17		47.8
	Apr. 25		49.0
	May 23		49.7
	June 23		50.5
	July 21		51.3
	Aug. 18		52.1
	Sep. 26		52.5
	Oct. 27		53.0
	Nov. 24		52.0
	Dec. 14		51.2
E-151-K-22 526.0	Apr. 25		13.6
	May 23		14.0
	June 23		15.5
	July 21		16.4
	Aug. 18		17.5
	Sep. 26		18.3
	Oct. 27		18.1
	Nov. 24		19.3
	Dec. 14		17.7
E-151f-K-22 553.7	Jan. 24		29.0
	Feb. 15		28.6
	Mar. 17		28.7
	Apr. 25		28.7
	May 23		27.8
	June 23		28.6
	July 21		29.6
	Aug. 18		30.2
	Sep. 26		30.5
E-151f-K-22 Cont.	Oct. 27		30.9
	Nov. 24		30.4
	Dec. 14		30.7
E-153-K-22 591.1	Jan. 4	a	29.0
	Feb. 2	a	28.9
	Mar. 2	a	28.9
	Apr. 4	a	30.2
	May 2	a	30.0
	June 2	a	31.2
	July 5	a	31.0
	Aug. 2	a	31.5
	Sep. 12	a	32.1
	Nov. 3	ab	42.4
	Dec. 5	a	32.0
E-156-K-23 640.0	Jan. 4	a	49.0
	Feb. 2	a	49.0
	Mar. 2	a	49.2
	Apr. 4	a	49.3
	May 2	a	49.4
	June 2	a	49.6
	July 5	a	49.7
	Aug. 2	a	49.8
	Sep. 12	a	49.9
	Oct. 3	a	49.9
	Nov. 3	a	50.0
	Dec. 5	a	50.2
E-159-K-23 627.3	Jan. 24		47.0
	Feb. 15		47.2
	Mar. 17		47.6
	Apr. 25		48.1
	May 23		48.2
	June 23		48.5
	July 21		48.9
	Aug. 22		49.3
	Sep. 26		49.5
	Oct. 27		49.9
	Nov. 24		50.1
	Dec. 15		50.4

* R.P. Elev. 567.0 to July 21, 1950; then 567.6.
a Meas. from Riverside Water Basin Records.
b Pumping level.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
E-165d-K-24 700.1	Jan. 4	12.7
	Feb. 2	11.2
	Mar. 2	10.5
	Apr. 4	12.2
	May 2	12.0
E-172-J-25 *	Jan. 4	7.9
	Feb. 2	8.2
	Mar. 2	8.0
	Apr. 4	11.2
	May 2	7.6
	July 5	18.0
	Aug. 2	8.4
	Sep. 12	7.6
	Oct. 3	7.8
	Nov. 3	7.2
	Dec. 5	7.8
E-175-K-24 757.2	Jan. 4	35.4
	Feb. 2	34.3
	Mar. 2	34.1
	Apr. 4	37.7
	May 2	40.0
	June 2	40.7
E-176-K-24 764.2	Jan. 4	50.1
	Feb. 2	49.2
	Mar. 2	48.6
	Apr. 4	50.1
	May 2	51.6
	June 6	51.8
	July 5	52.4
	Aug. 2	53.2
	Sep. 12	53.6
	Oct. 3	53.5
	Nov. 6	53.8
	Dec. 5	52.8
E-178-J-28 779.4	Jan. 4	37.9
	Feb. 2	37.0
	Mar. 2	38.0
	Apr. 4	37.4
E-178-J-28 Cont.	May 2	37.7
	June 2	37.5
	July 5	37.9
	Aug. 2	37.6
	Sep. 2	38.0
	Oct. 3	38.1
	Nov. 3	38.0
	Dec. 5	37.7
E-179c-K-25 769.3	Jan. 4	19.5
	Feb. 2	19.2
	Mar. 2	19.0
	Apr. 4	19.0
	May 2	19.1
	June 2	19.3
	July 5	19.4
E-184c-J-25 801.5	Jan. 4	61.3
	Feb. 2	61.0
	Mar. 2	60.9
	Apr. 4	61.0
	May 2	61.2
	June 2	61.2
	July 5	61.4
	Aug. 2	61.8
	Sep. 12	61.8
	Oct. 3	61.8
	Nov. 3	61.7
	Dec. 5	61.4
E-185-J-25 799.6	Jan. 4	41.3
	Feb. 2	41.0
	Mar. 2	40.7
	Apr. 4	40.6
	May 2	40.7
	June 2	40.7
	July 5	41.7
	Aug. 2	41.0
	Sep. 12	41.6
	Oct. 3	41.6
	Nov. 3	41.5
	Dec. 5	41.6

* R.P. Elev. 736.5 to July 5, 1950; then 737.4.
Measts. from Riverside Water Basin Records.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
E-192-J-26 846.3	Jan. 3	66.2
	Feb. 1	69.2
	Mar. 2	68.1
	Apr. 3	68.6
	May 1	68.2
	June 1	67.9
	July 5	70.7
	Aug. 1	73.3
	Sep. 11	74.0
	Oct. 2	72.1
	Nov. 3	71.6
	Dec. 5	70.1
E-192a-J-26 769.4	Jan. 4	7.4
	Feb. 2	6.7
	Mar. 2	6.5
	Apr. 4	6.4
	May 2	6.3
	June 2	6.4
	July 5	6.9
	Aug. 2	7.3
	Dec. 5	7.4
E-194-K-26 873.0	Jan. 4	106.9
	Feb. 2	106.6
	Mar. 2	107.0
	Apr. 4	106.4
	May 2	106.5
	June 2	106.6
	July 5	106.6
	Aug. 2	106.9
	Sep. 12	107.2
	Oct. 3	107.4
	Nov. 3	107.4
	Dec. 5	107.1
E-196e-J-26 869.4	Jan. 3	83.7
	Feb. 1	81.3
	Mar. 1	79.4
	Apr. 3	83.4
	May 1	82.8
	June 1	82.4
	July 6	85.2

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
E-196-J-26 Cont.	Aug. 1	88.2
	Sep. 11	89.2
	Oct. 2	86.8
	Nov. 3	91.0
	Dec. 5	91.2
E-201d-I-27 907.7	Jan. 3	79.0
	Feb. 1	78.7
	Mar. 1	78.4
	Apr. 3	78.2
	May 1	78.2
	June 1	78.2
	July 6	81.0
	Aug. 1	82.2
	Sep. 11	84.2
	Oct. 2	82.4
	Nov. 3	81.8
	Dec. 5	81.2
E-201g-J-26 898.6	Jan. 3	106.2
	Feb. 1	105.2
	Mar. 1	104.3
	Apr. 3	104.4
	May 1	103.8
	June 1	103.3
	July 6	106.2
	Aug. 1	109.7
	Sep. 11	108.9
	Oct. 2	107.9
	Nov. 3	109.4
	Dec. 5	108.2
E-202-J-26 941.1	Jan. 3	153.0
	Feb. 1	152.0
	Mar. 1	151.1
	Apr. 3	151.7
	May 1	151.6
	June 1	151.3
	July 6	152.9
	Aug. 1	154.6
	Sep. 11	156.0
	Oct. 2	155.4
	Nov. 3	154.9
	Dec. 5	153.4

Measts. from Riverside Water Basin Records.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
E-207a-J-27 998.0	Feb. 1 a	168.9
	Mar. 1 a	168.5
	May 1 a	170.8
	June 1 a	171.6
	July 6 a	173.1
	Aug. 1 a	173.9
	Sep. 11 a	173.7
	Oct. 2 a	174.2
	Nov. 3 a	174.4
	Dec. 5 a	174.3
E-229-I-32 2287.1	Apr. 4 b	100.5
E-232b-J-32 2288.0	Jan. 7 b	84.5
E-232e-I-32 2483.9	Apr. 4 b	248.5
	Oct. 3 b	250.0
E-233e-J-32 2270.0	Jan. 7 b	94.7
E-233f-J-32 2299.1	Jan. 7 b	56.3
E-236-J-33 2349.0	Jan. 7 b	102.0
E-240-J-33 2590.5	Jan. 7 b	333.3
E-241-J-33 2491.2	Jan. 7 b	229.8
E-265-L-21 491.8	Jan. 19	8.9
	Feb. 10	8.9
	Mar. 14	9.1
	Apr. 18	9.3
	May 16	9.4
	June 13	9.8
	July 18	10.1
E-265-L-21 Cont.	Aug. 15	10.2
	Sep. 18	10.4
	Oct. 24	10.2
	Oct. 22	10.2
	Dec. 11	10.3
E-267-L-21 494.0	Jan. 19	6.5
	Feb. 10	6.2
	Mar. 14	6.5
	Apr. 18	6.7
	May 16	6.6
	June 13	6.9
	July 18	7.2
	Aug. 15	7.4
	Sep. 18	6.1
	Oct. 24	7.3
	Nov. 22	7.2
	Dec. 11	7.3
E-268b-L-21 512.4	Jan. 18	99.7
	Feb. 17	97.1
	Mar. 24	98.6
	Apr. 21	103.0
	May 17	103.3
	June 28	100.2
	July 19	99.8
	Aug. 18	101.0
	Sep. 20	100.9
	Nov. 1	101.7
	Dec. 1	101.8
E-269a-L-22 527.8	Jan. 19	18.6
	Feb. 10	17.6
	Aug. 15 c	29.3
	Dec. 14	17.2
E-270-L-21 611.1	Jan. 18	99.7
	Feb. 17	97.1
	Mar. 24	98.6
	Apr. 21	103.0
	May 17	103.3
	June 28	100.2

a Meas. from O.Co.F.C.D.
b Meas. from P.E. Hicks.
c Pumping level.
Measts. from O.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
E-270-L-21 Cont.	July 19		99.8
	Aug. 18		101.0
	Sep. 20		100.9
	Nov. 1		101.7
	Dec. 1		101.8
E-272-L-22 537.1	Jan. 24		23.3
	Feb. 15		23.5
	Oct. 27	a	34.8
	Nov. 24		27.0
	Dec. 14		26.6
E-273a-L-22 662.2	Jan. 24		141.8
	Feb. 15		138.0
	Aug. 18	a	167.4
	Sep. 19		145.8
	Nov. 24		147.9
	Dec. 14		150.5
E-274c-L-22 *	Nov. 24		76.7
	Dec. 14		75.6
E-276-L-22 677.8	Jan. 16	b	144.2
	Feb. 16	b	142.2
	Mar. 15	b	141.3
	Apr. 10	b	141.3
	May 10	b	143.3
	June 13	b	144.8
	July 25	b	150.0
	Aug. 9	b	148.8
	Sep. 13	b	150.2
	Oct. 10	b	150.4
	Nov. 5	b	150.5
	Dec. 13	b	148.5
E-277b-M-22 969.2	Jan. 11		120.4
	Feb. 17		129.6
	May 3		133.1
	May 24		133.8
	July 26		131.3
	Aug. 29		121.1
	Oct. 31		128.8
	Dec. 1		128.6
E-282c-L-22 631.5	Jan. 16	b	89.0
	Feb. 16	b	89.3
	June 13	b	97.2
	July 25	b	100.6
	Aug. 9	b	102.3
	Nov. 15	ab	98.0
	Nov. 16	b	89.4
E-286c-L-23 609.9	Mar. 21		45.7
	Apr. 28		45.3
	Nov. 28		51.2
E-287c-L-23 659.4	Jan. 3		86.5
	Jan. 31		86.1
	Feb. 16		86.9
	Mar. 21	c	
E-298-L-24 686.1	Feb. 2	d	22.8
	May 2	d	27.9
	June 2	d	30.7
	Dec. 5	d	31.5

* R.P. Elev. 592.1 to Nov. 24, 1950; then 592.2.
a Pumping level.
b Meas. by owner from O.Co.F.C.D.
c Dry at 87.5 ft.
d Meas. from Riverside Water Basin Records.
Measts. from O.Co.F.C.D. except as noted.

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

in San Jacinto Valley

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
3S4W36A 1495.0	Jan. 13		88
3S4W36B 1507.7	Jan. 13		135.1
3S3W1A 1754.5	Jan. 11		265
	Feb. 24		258.9
3S3W2A 1810.6	Jan. 11		248.0
	Apr. 5	a	248.9
	Oct. 31	a	247.8
3S3W6A 1620.	Jan. 10		154.8
3S3W6B 1605.5	Jan. 10		179.4
	Feb. 23		177.2
	Mar. 15		185.7
	Apr. 18	b	195.9
	May 26		195.2
	July 5		202.3
	Aug. 7	b	205.2
	Sep. 21	b	208.6
	Oct. 16	b	202.4
	Nov. 17		188.8
	Dec. 13		184.9
3S3W7B 1591.2	Jan. 11		120.4
	Feb. 23		116.6
	Mar. 15		114.0
	Apr. 18		118.3
	July 5		127.8
	Aug. 7		126.0
	Sep. 21		123.7
	Oct. 16		129.2
	Nov. 17		128.1
	Dec. 13		129.0
3S3W8A 1613.4	Jan. 11		141.9
3S3W12A 1601.0	Jan. 11		129.5
3S3W13A 1596.4	Jan. 11		129.8
	Feb. 24		122.0
	Mar. 17		122.2
	Apr. 19		128.3
	May 31		137.1
	July 7		138.7
	Aug. 11		139.4
	Sep. 21		138.7
	Oct. 31	a	140.1
3S3W15A 1550.2	Jan. 11		100.5
3S3W18A 1555	Jan. 11		82.5
	Feb. 23		82.3
	Mar. 15		85.7
	Apr. 18		85.7
	May 26		85.4
	Nov. 17		83.4
	Dec. 30		84.0
3S3W19C 1508.4	Jan. 11		51.3
3S3W22A 1507.0	Jan. 13		71.4
3S3W29A 1496.5	Jan. 13		148.1
	Feb. 23		149.3
	Apr. 18		144.0
	May 26		149.7
	July 5		153.4
	Aug. 7		153.3
	Sep. 21		151.5
	Oct. 16		156.4
	Nov. 17		151.3
	Dec. 13		151.2

a Meas. from M.W.D.

b Pumping nearby.

Measts. from Riv.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
3S3W30A 1503.3	Jan. 11	85.6
3S3W30B 1494.2	Jan. 13	127.6
3S3W31A 1479.5	Jan. 13	136.4
	Apr. 5 a	135.3
	Oct. 31 a	134.8
3S3W31B 1472.	Jan. 13	160.3
	Feb. 23	159.0
	Mar. 15	167.6
	May 26	166.3
	July 5	169.4
	Aug. 7	170.1
	Sep. 21	173.4
	Oct. 16	175.0
	Nov. 17	173.5
	Dec. 13	171.6
3S3W32A 1464.	Jan. 13	174
3S2W7A 1590.7	Jan. 13 a	104.6
3S2W8A 1676.5	Jan. 13 a	141.8
	Apr. 5 a	142.0
	Oct. 31 a	142.0
3S2W26A 1460	Jan. 11 a	44.1
	Feb. 17 a	44.5
	Apr. 4 a	44.7
	Aug. 8 a	46.5
	Oct. 31 a	47.1
3S2W26B 1428.7	Jan. 13 a	59.0
3S2W29A	Feb. 24	12.6
*1427.6	Mar. 17	12.6
3S2W29A Cont.	Apr. 19	12.6
	May 31	13.0
	July 7	13.7
	Aug. 11	14.1
	Sep. 21	14.3
	Oct. 19	14.4
3S2W35A 1429.2	Jan. 13 a	44.2
	Feb. 16 a	49.2
	Nov. 1 b	34.0
4S4W1A 1504.7	Jan. 16	44.0
	May 19 b	44.6
	Aug. 25 b	45.1
	Nov. 3 b	45.3
4S4W12A 1487.3	Apr. 5 a	243.7
	Oct. 31 a	252.1
4S3W2A 1530.5	Jan. 16	47.9
4S3W3A 1495.	Jan. 16	156.4
4S3W5A 1446.	Jan. 16	62.5
4S3W6A 1478.	Jan. 16	229.2
4S3W9A 1446.4	Jan. 16	159.3
	Feb. 23	156.0
	Mar. 15	157.4
	May 26	160.3
	July 5	166.1
	Sep. 21	164.5
	Oct. 16	165.0
	Nov. 17	160.4
	Dec. 13	160.0

* New elev., R.P. changed.
a Meas. from M.W.D.
b Meas. from U.S.G.S.
Meas. from Riv. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
4S3W10A	Jan. 16		183.4
	Apr. 5	a	166.5
4S3W18A 1481.3	Jan. 11		121.1
	Feb. 23		123.6
	Mar. 15		129.5
	Apr. 18		125.3
	May 26		129.1
	July 5		128.6
	Aug. 7		124.0
	Sep. 21		122.7
	Oct. 16		123.2
	Nov. 16		127.2
	Dec. 13		127.9
4S3W18B 1440.0	Jan. 16		205.9
4S3W19A 1478.2	Jan. 17		82.5
	Feb. 23		84.9
	Mar. 15		83.3
	Apr. 18		84.4
	May 26		84.1
	July 5		86.1
	Aug. 7		84.6
	Sep. 21		83.9
	Oct. 16		83.9
	Nov. 16		83.0
	Dec. 13		85.0
4S3W20B	Jan. 17		194.2
4S3W21A 1425	Jan. 17		138.2
4S3W24A 1437.6	Jan. 17		120.7

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
4S3W24C 1442.2	Jan. 13	a	125.6
	Feb. 24		123.8
	Mar. 9	a	123.7
	Apr. 5	a	124.2
	May 25		128.3
	July 7		130.3
	Aug. 11		131.7
	Sep. 21		132.9
	Oct. 19		134.7
	Nov. 20		134.3
	Dec. 15		132.4
4S3W28A 1414.0	Jan. 17		149.9
4S3W31A 1490	Jan. 17		45.2
4S3W32A 1434.8	Jan. 17		65.6
	Feb. 23		65.6
	Mar. 9	a	65.8
	Apr. 18		65.8
	May 19	b	66.0
	July 5		66.8
	Aug. 25	b	66.5
	Sep. 21		66.4
	Oct. 31	a	66.5
	Nov. 3	b	68.2
	Dec. 13		66.6
4S3W35A 1424.1	Oct. 31		129.8
4S2W2C 1430.7	Jan. 13	a	33.9
4S2W3A 1436.4	Jan. 13	a	47.6
	Feb. 17	a	48.1

a Meas. from M.W.D.
b Meas. from U.S.G.S.
Measts. from Riv. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
4S2W3A	Mar. 8		48.1
Cont.	Oct. 31		51.2
4S2W6A	Feb. 24	a	47.3
1422.	Mar. 17	a	47.8
	Apr. 19	a	48.5
	May 31	a	49.7
	July 7	a	51.1
	Aug. 11	a	52.2
	Sep. 21	a	53.2
	Oct. 19	a	54.9
	Nov. 20	a	53.5
	Dec. 15	a	53.9
4S2W7A	Jan. 9	b	91.7
1445.2	Feb. 16		87.6
	Mar. 17	a	90.6
	Apr. 27	b	93.6
	May 11		94.4
	June 30	b	97.3
	July 6	a	97.5
	Aug. 26	b	98.4
	Sep. 7		98.6
	Oct. 24	b	99.6
	Nov. 20	a	99.0
	Dec. 15	a	97.1
4S2W19A	Jan. 13		24.5
4S2W36A	Jan. 24	c	34.4
1501.2			
4S1W6A	Jan. 11		81.2
4S1W15A	Jan. 11		12.8
1500.5			
4S1W15B	Jan. 11		31.4
1492	Feb. 15		27.7
4S1W15B	Mar. 8		33.4
Cont.	Apr. 4		51.1
	May 8		52.0
	July 10		66.3
	Aug. 7		73.2
	Sep. 27		70.7
	Nov. 1		65.4
4S1W16B	Jan. 11		4.8
1475.7			
4S1W17A	Jan. 11		7.7
1455.4	Feb. 17		7.3
	Mar. 8		7.3
	Apr. 4		6.6
	May 8		6.7
	July 10		6.9
	Aug. 7		7.1
	Sep. 6		7.4
	Oct. 4		7.5
	Nov. 1		7.7
	Dec. 20		7.8
4S1W17B	Jan. 11		6.6
1457.5	Feb. 17		6.1
	Mar. 8		5.8
	Apr. 4		5.4
	May 8		5.5
	July 10		5.0
	Aug. 7		4.8
	Sep. 6		5.3
	Oct. 4		5.4
	Nov. 1		5.9
	Dec. 20		5.8
4S1W17D	Jan. 11		5.2
1464.4	Feb. 17		4.3
	Mar. 8		4.0
	Apr. 4		3.6

a Meas. from Riv. Co. F.C.D.
b Meas. from U.S.G.S.
c Meas. from D.W.R.
Measts. from M.W.D., except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
4S1W17D Cont.	May 8		4.0
	July 10		5.2
	Aug. 7		5.7
	Sep. 6		6.2
	Oct. 4		6.1
	Nov. 1		6.1
	Dec. 20		4.8
4S1W18A	Jan. 11		9.3
1450.9	Feb. 24	a	9.3
	Mar. 8		9.1
	Apr. 4		8.9
	May 29	a	9.0
	July 10		10.0
	Aug. 11	a	10.7
	Sep. 6		10.8
	Oct. 19	a	10.3
	Nov. 1		10.2
	Dec. 15	a	9.5
4S1W18B	Jan. 25	b	8.7
1450.9			
4S1W20A	Jan. 11		11.4
1478.8	Mar. 8		10.9
	Apr. 5		10.8
	May 8		10.8
	July 10		11.7
	Nov. 1	c	
4S1W21A	Jan. 11		5.4
1473.6	Feb. 17		4.8
	Mar. 8		4.5
	Apr. 4		4.2
	May 8		4.6
	July 10		5.5
	Aug. 7		6.1
	Sep. 6		6.3
	Oct. 4		6.5
	Nov. 1		6.8
	Dec. 20		6.4
4S1W21B	Jan. 11		8.6
1491.2	Feb. 17		8.0
	Mar. 8		7.8

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
4S1W21B Cont.	Apr. 4	7.6
	May 8	7.8
	July 10	8.9
	Aug. 7	9.5
	Sep. 6	10.0
	Oct. 4	10.1
	Nov. 1	10.2
	Dec. 20	9.8
4S1W21C	Jan. 11	6.0
1489.0		
4S1W22A	Jan. 11	30.7
1508.6		
4S1W22B	Jan. 11	10.3
1506.0		
4S1W23A	Jan. 11	60.6
1551.2	Mar. 8	64.2
	Apr. 4	72.7
	Aug. 7	92.2
	Nov. 1	91.2
4S1W23B	Jan. 11	56.4
1545.4	Mar. 8	53.7
	Apr. 4	56.2
	May 8	59.8
	Aug. 7	69.7
	Nov. 1	75.9
4S1W23C	Jan. 10	31.8
4S1W25A	Jan. 10	77.6
1566.	Mar. 8	78.1
	Apr. 4	82.8
	May 8	88.8
	Aug. 7	96.6
	Nov. 1	99.1
4S1W26A	Jan. 11	66.5
1552.9		
4S1W29B	Jan. 24	56.4
1502.0		

a Meas. from Riv. Co. F.C.D.
b Meas. from D.W.R.
c Dry at 11.8 ft.
Measts. from M.W.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
4S1W31A 1504.5	Jan. 24	a	45.1
4S1W32A 1513.8	Jan. 24	a	52.2
	Mar. 8		55.3
	Apr. 5		59.0
	May 8		60.3
	Aug. 7		54.4
	Nov. 1		60.4
4S1W32B 1527.5	Jan. 24	a	68.2
4S1W33A 1520.9	Jan. 25	a	66.4
	Mar. 8		65.2
	Apr. 5		66.4
	May 8		68.2
	July 10		71.3
	Aug. 7		72.4
	Oct. 4		74.6
	Nov. 11		75.6
4S1W33C 1514.9	Jan. 25	a	35.0
4S1W33D 1533.5	Jan. 25	a	72.6
4S1W33E 1533.8	Jan. 25	a	76.0
4S1W35F 1552.6	Jan. 11		75.4
4S1W36A 1608.0	Jan. 10		115.1

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
4S1E31B 1606.9	Jan. 10		109.6
5S3W1A 1530	Jan. 17	a	24.3
5S3W2A	Jan. 17	a	30.2
5S3W2B	Jan. 17	a	82.4
5S3W2C	Jan. 17	a	161.7
5S3W3A	Jan. 14	a	137.6
5S3W5A 1415.2	Jan. 11	a	27.0
5S3W5B 1413.5	Jan. 11	a	131.5
5S3W6A	Jan. 11	a	49.6
5S3W6B	Jan. 11	a	31.9
5S3W7A	Jan. 11	a	19.1
5S3W7B	Jan. 11	a	20.1
	Feb. 23	b	20.2
	Mar. 15	b	20.4
	May 25	b	20.4
	July 5	b	20.7
	Aug. 9	b	20.7
	Sep. 21	b	20.6
	Oct. 16	b	20.8
	Nov. 16	b	20.6
	Dec. 13	b	20.8
5S3W8A 1412.2	Jan. 12	a	121.7
	Apr. 5		123.4
	Oct. 31		134.3

a Meas. from D.W.R.
b Meas. from Riv. Co. F.C.D.
Measts. from M.W.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5S3W9B *1414.1	Jan. 14		125.7
5S3W10A 1424	Jan. 14		135.2
5S3W11A 1480.2	Jan. 17	a	
5S3W11C 1458.6	Jan. 17		196.2
5S3W13A 1474.2	Jan. 17		34.9
5S3W14A 1446.2	Jan. 17		77.6
5S3W16A 1423.3	Jan. 14		123.6
	Oct. 31	b	151.3
5S3W17A *1444.0	Jan. 12		140.5
5S3W17B *1444.3	Jan. 12		89.7
5S3W22A 1435.0	Jan. 14	c	
5S3W24A *1460.3	Jan. 18		45.8
5S3W24B 1465.7	Jan. 18		52.3
5S3W24C *1457.6	Jan. 18		54.7
5S3W25A *1447.0	Jan. 18		33.2
5S3W27A *1526.0	Jan. 26		26.0
5S3W29E 1427.7	Jan. 12		101.0
5S3W33A 1411.0	Jan. 13		64.5
5S3W33D 1420.1	Jan. 12		68.7
5S3W34A 1416.8	Jan. 12		67.5
5S3W34C 1475.4	Jan. 12		64.2
5S3W35A *1423.3	Jan. 13		56.7
	Oct. 31	b	62.2
5S3W36A 1430.9	Jan. 13		51.5
5S3W36B *1436.2	Jan. 13	d	
5S3W36C 1424.8	Jan. 13		56.4
5S3W36D 1449.3	Jan. 14		43.5
5S2W7A 1542.4	Jan. 17		181.2

* New elev., R.P. changed.
a Dry at 74.6 ft.
b Meas. from M.W.D.
c Dry at 118.1 ft.
d Dry at 38 ft.
Measts. from D.W.R., except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5S2W7B 1531.3	Jan. 17		171.2
5S2W12A *1507.5	Jan. 21		30.5
5S2W12B 1501.1	Jan. 21		36.0
5S2W12C *1526.5	Jan. 21		40.9
5S2W15A 1540.3	Jan. 19		55.4
5S2W17A	Jan. 17		43.4
5S2W17B	Jan. 18		28.2
5S2W22B *1512.9	Jan. 19		48.8
5S2W22C 1503.8	Jan. 19		43.7
5S2W24A *1495.2	Jan. 21		41.1
5S2W24B *1499.8	Jan. 21		40.2
	May 19	a	47.7
	Nov. 3	a	47.0
5S2W24D	Jan. 20		48.7
5S2W25B 1486.6	Jan. 19		85.5
5S2W26A 1478.1	Jan. 19		43.9
5S2W27E 1476.9	Jan. 18		38.1
	Feb. 23	a	38.2
	Mar. 15	b	38.5
	Apr. 18	b	39.0
	July 5	b	39.6
	Aug. 25	a	41.2
	Sep. 28	b	40.4
	Oct. 31	c	42.2
	Nov. 17	b	40.9
	Dec. 13	b	40.8
5S2W32A *1458.4	Jan. 18		25.4
5S2W32C 1455.0	Jan. 18		23.6
5S2W33A *1460.1	Jan. 18		31.4
5S2W33B 1469.3	Jan. 18		36.2
5S2W35C 1474.8	Jan. 18		59.8
5S2W35D 1471.0	Jan. 18		51.8
5S1W1A 1624.8	Jan. 10	c	124.2
5S1W2A 1582.4	Jan. 10	c	100.3
5S1W2I 1585.1	Jan. 24		85.3
	Feb. 23	a	96.9
	Mar. 8	c	93.6
	Apr. 5	c	95.8

* New elev. R.P. changed.
a Meas. from U.S.G.S.
b Meas. from Riv. Co.F.C.D.
c Meas. from M.W.D.
Measts. from D.W.R. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5S1W2I Cont.	May 19	a	102.2
	Aug. 25	a	108.7
	Nov. 3	a	106.6
5S1W3C 1549.6	Jan. 22		77.4
	Feb. 17	b	77.0
	Mar. 8	b	78.0
	Apr. 5	b	81.7
	May 8	b	86.5
	Aug. 7	b	89.6
	Nov. 1	b	93.7
5S1W4A 1538.8	Jan. 22		77.6
5S1W4C 1510.9	Jan. 22		48.4
5S1W4D 1538.0	Jan. 22		80.2
5S1W5A *1519.3	Jan. 22		40.0
5S1W5B 1528.2	Jan. 22		69.6
5S1W5C 1536.8	Jan. 22		91.1
	Mar. 8	b	109.3
5S1W7A 1505	Jan. 21		28.9
5S1W7B 1510.7	Jan. 21		33.4
5S1W7C *1505.8	Jan. 21		36.5
5S1W8B 1512.6	Jan. 22		41.8
5S1W9A 1542.0	Jan. 22		86.9
	Feb. 17	b	89.8
	Mar. 8	b	99.0
	Apr. 19	c	105.6
	May 8	b	106.6
	July 5	c	111.7
	Aug. 7	b	108.6
	Sep. 22	c	113.5
	Oct. 16	c	115.4
	Nov. 1	b	113.1
	Dec. 13	c	96.6
5S1W9B 1555	Jan. 22		101.7
5S1W10A 1583.4	Jan. 22		126.5
5S1W10B	Jan. 22		121.9
	Sep. 22	c	137.4
	Nov. 20	c	138.0
	Dec. 15	c	130.2
5S1W11A *1638.2	Jan. 24		185.3
5S1W13B 1688.5	Jan. 21		229.4
5S1W14B 1640.2	Jan. 21		188.5
	Feb. 27	b	194.2
	Mar. 15	b	187.6
	Oct. 16	d	

* New elev., R.P. changed.
a Meas. from U.S.G.S.
b Meas. from M.W.D.
c Meas. from Riv. Co. F.C.D.
d Dry at 300 ft.
Measts. from D.W.R. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5S1W15A 1603.	Jan. 21	a	163.0
5S1W16A 1545.	Jan. 22	a	99.0
5S1W16B 1543.5	Jan. 22	a	92.5
5S1W16C *1559.8	Jan. 22	a	108.4
5S1W16E	Jan. 22	a	121.9
5S1W18A 1511.5	Jan. 22	ab	72.3
5S1W19A 1515.5	Jan. 21	a	71.4
5S1W19C 1512.3	Jan. 21	a	46.6
5S1W19E 1507	Jan. 21	a	61.0
5S1W20A 1528.7	Jan. 21	a	85.7
	Mar. 1		94.0
	Apr. 19		94.4
	May 25		99.6
	Aug. 9		96.6
	Sep. 28		100.3
	Oct. 16		101.3
5S1W20D 1527.	Jan. 21	a	76.9

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5S1W27A	Jan. 20	a	41.6
5S1W28A 1568.7	Jan. 20	a	28.3
5S1W30A 1501.	Jan. 19	a	94.1
5S1W30B *1503.7	Jan. 19	a	92.7
5S1W30C	Jan. 19	a	55.3
5S1W34B	Jan. 20	a	64.9
	Feb. 27		65.3
	Mar. 16		65.5
	Apr. 18		65.0
	May 25		66.4
	July 6		67.0
	Aug. 10		67.5
	Sep. 28		68.2
	Oct. 18		68.5
	Nov. 17		68.8
	Dec. 13		69.2
5S1E5A 1663.7	Jan. 10	c	68.8
5S1E6A 1650.5	Jan. 10	c	142.2
5S1E6B 1657.1	Jan. 10	c	134.3
5S1E7A 1725.2	Feb. 24		203.9
	Nov. 20		226.2
5S1E9D 1759.8	Jan. 9	c	73.9
	Feb. 24		73.8

* New elev. R.P. changed.
a Meas. from D.W.R.
b Pumping nearby.
c Meas. from M.W.D.
Measts. from Riv. Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5S1E9D Cont.	Mar. 17		74.3
	Apr. 21		74.3
	July 6		72.7
	Aug. 10		73.0
	Sep. 28		73.8
	Oct. 18		73.9
	Nov. 20		73.8
	Dec. 14		73.7
5S1E10B 1810.6	Jan. 9	a	29.6
5S1E14A 1890	Mar. 17		157.6
5S1E17B 1841.5	Jan. 9	a	304.8
5S1E17C 1800.9	Jan. 9	a	275.0
5S1E17D 1830.9	Feb. 27		292.5
5S1E18B 1761.5	Jan. 9	a	231.2
	Feb. 27		233.9
	Apr. 5	a	230.2
	Aug. 8	a	239.4
	Nov. 1	ab	
5S1E18C 1730	Jan. 10	a	192.2
5S1E19A 1803.2	Jan. 10	a	307.3
5S1E20A *1863.8	Feb. 27		296.6
	Mar. 8		297.
5S1E20C 1903.8	Jan. 9	a	297.0
	Feb. 27		296.6
5S1E20D 1877.9	Jan. 9	a	293.8
	Feb. 27		289.9
6S3W2B 1425.5	Jan. 13	c	56.4
6S3W3A 1428.3	Jan. 13	c	62.1
	Feb. 23		62.3
	Mar. 15		62.4
	Apr. 18		62.8
	May 25		62.8
	July 5		65.1
	Sep. 28		65.9
	Oct. 16		66.2
	Nov. 17		66.4
	Dec. 13		66.1

* New elev. R.P. changed.
a Meas. from M.W.D.
b Dry at 244.4 ft.
c Meas. from D.W.R.
Measts. from Riv. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
6S3W4A 1438.3	Jan. 13	a	62.6
	Mar. 15		63.2
	Apr. 18		64.6
	May 19	b	68.3
	Aug. 25	b	65.1
	Sep. 28		65.7
	Oct. 16		67.5
	Nov. 3	b	65.8
	Dec. 13		67.9
6S3W11A	Jan. 13	a	8.4
6S3W12A 1429.5	Jan. 13	a	58.0
6S3W23A	Jan. 13	a	17.3
	Mar. 15		24.7
	Apr. 18		16.6
	May 2		20.8
	July 5		16.9
6S3W23A Cont.	Aug. 9		17.4
	Sep. 28		17.4
	Oct. 16		17.3
	Nov. 17		17.7
	Dec. 13		17.6
6S2W5A 1441.	Jan. 13	a	70.0
6S2W6B 1438.5	Jan. 13	a	66.3
	Mar. 15		67.4
	Sep. 28		73.6
	Nov. 17		72.5
	Dec. 13		73.0
6S1W4A 1644	Jan. 20	ac	
6S1W10A 1710	Jan. 20	a	67.8

a Meas. from D.W.R.
b Meas. from U.S.G.S.
c Dry at 52.6 ft.
Measts. from Riv.Co.F.C.D. except as noted.

SOUTHERN CALIFORNIA AREA INVESTIGATION

Records of Ground Water Levels at Wells

In Antelope Valley

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
5N9W6A 2847.3	Nov. 15	a	49.4
5N10W6A 2777	Jan. 25		105.6
	Feb. 15		105.1
	Apr. 20		105.6
	June 14		106.6
	July 25		116.4
	Aug. 20		118.6
	Sep. 13		120.5
	Oct. 25		116.0
	Nov. 15		111.4
	Dec. 20		109.5
5N10W7A 2817	Feb. 15		142.2
	Apr. 20		140.1
	June 14	b	144.2
5N10W12A 2884	Jan. 23	a	56.4
	Feb. 21	a	56.7
	Mar. 22	a	58.7
	Apr. 24	a	61.6
	May 23	as	
5N10W26A 3155	Nov. 13	a	51.7
5N11W4A 2695	Dec. 13		167.6
5N11W10A 2836	Jan. 25		100.0
	Feb. 15		99.5
	Apr. 20		100.8
	May 3		100.2
	June 14		101.4
	July 26		101.6
	Aug. 23		101.9
	Sep. 13		102.2
5N11W10A Cont.	Oct. 25		102.4
	Nov. 15		102.5
	Dec. 20		102.9
5N11W12B 2834	Nov. 30		152.6
5N11W12C 2842	Dec. 19		174.4
5N11W13B 2913	Nov. 30		238.3
6N8W18A 2725	Nov. 16	a	162.5
6N8W32A *2955.7	Nov. 16	a	189.2
6N9W31A 2832	Nov. 15	a	39.2
6N10W9B 2576.3	Nov. 15	a	194.0
6N10W9C 2598.5	Nov. 15	a	153.3
6N10W10A 2614	Nov. 15	a	77.3
6N10W20A 2637.6	Jan. 23	a	193.2
	Feb. 21	a	193.3
	Sep. 26	a	213.7
	Oct. 25	a	210.5
	Nov. 29		206.1
	Dec. 27		203.5

* New elev., R.P. changed.
a Meas. from U.S.G.S.
b Pumping nearby.
c Dry at 70 ft.
Measts. from L.A.Co.F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
6N10W27A 2677	Nov. 15	153.6
6N11W3G 2512	Nov. 15	208.7
6N11W9A 2505.5	Nov. 13	210.6
6N11W12A 2541	Nov. 15	214.9
6N11W12C 2552	Nov. 15	209.7
6N11W18B 2562	Nov. 15	245.6
6N11W19A 2583	Nov. 15	265.2
6N11W20A 2581	Dec. 19 a	251.9
6N11W28B 2625	Dec. 13 a	98.9
6N12W24A 2587	Jan. 24 a	260.3
	Feb. 15 a	258.8
	Apr. 19 a	263.4
	May 31 a	265.8
	June 14 a	266.2
	July 26 a	267.5
	Aug. 23 a	269.2
	Sep. 13 a	270.8
	Oct. 25 a	269.1
	Nov. 15 a	267.8
	Dec. 20 a	267.5

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
6N12W25A 2653.2	Feb. 15 a	300.2
6N13W12A 2607.5	Nov. 29 a	251.3
7N10W21A *2465.3	Nov. 15	173.0
7N10W30A 2488	Nov. 15	207.9
7N10W31A 2506	Nov. 15	215.5
7N11W8A 2383.4	Nov. 14	77.2
7N11W16A 2392	Nov. 14	111.5
7N11W19A 2430	Nov. 13	162.3
7N11W23B 2439	Nov. 15	154.4
7N11W24A 2433	Jan. 23 b	151.8
	Feb. 21 b	150.9
	Mar. 22 b	152.7
	Apr. 24 b	154.8
	May 23 b	156.6
	June 26 b	159.2
	July 24 b	160.5
	Aug. 25 b	161.9
	Sep. 26 b	163.1
	Oct. 25 b	163.6
	Nov. 29 b	162.6
	Dec. 27 b	161.8

* New elev., R.P. changed.
b Meas. from L.A. Co. F.C.D.
b Meas. by U.S.G.S. from L.A. Co. F.C.D.
Measts. from U.S.G.S. except as noted.

Well Number and R.P. Elev.	Date		Dist.R.P. to water surface, Feet
	1950		
7N11W27A *2454.0	Nov. 13	a	180.8
7N11W28B 2448.7	Nov. 13	a	162.6
7N11W28D 2440.8	Nov. 13	a	181.3
7N12W4B 2312.8	Jan. 25		12.2
	Apr. 18		13.4
	July 26		17.6
	Oct. 25		14.2
	Nov. 27		15.8
7N12W15C 2348.5	Jan. 23		55.4
	Apr. 18		63.9
	July 26		79.0
	Oct. 25		73.6
	Nov. 15		71.7
7N12W15D 2355.5	Dec. 15		73.6
7N12W22B 2412	Jan. 23		116.9
	Feb. 15		115.3
	Apr. 18		120.2
	May 31		122.6
	June 14		124.0
	July 25		124.4
	Aug. 23		126.5
	Sep. 13		127.2
	Oct. 25		126.4
	Nov. 15		125.8
	Dec. 20		124.2
7N12W29A 2449	Nov. 29		161.4
7N13W11B 2356	Nov. 28		6.4
7N13W17A 2421.7	Jan. 4		136.6
	Nov. 28		139.7
7N13W21B 2372	Nov. 29		114.0
7N13W21C 2373	Nov. 29		108.6
7N13W27A 2421	Nov. 29		164.4
7N13W35A **	Jan. 4		201.5
	Nov. 29		212.8
7N14W10A 2558	Apr. 19		198.6
	Oct. 25		199.2
8N9W4B 2305.5	Nov. 14	a	26.3
8N9W4I 2294	Nov. 14	a	16.6
8N9W6D 2304	Nov. 14	a	15.5
8N10W2A 2310	Nov. 14		23.6
8N10W9A 2319	Jan. 23		28.9
	Feb. 21		28.9
	Mar. 22		29.2
	Apr. 24		29.6
	May 23		29.8
	June 26		29.7
	July 24	b	
8N10W19A 2342.5	Nov. 14	a	107.3

* New elev., R.P. changed.
** Correction: Beginning in 1946, R.P. elev. should be 2443.6.
a Meas. from U.S.G.S.
b Mud at 29.7 ft.
Measts. from L.A. Co. F.C.D. except as noted.

Well Number and R.P. Elev.	Date	Dist.R.P. to water surface, Feet
	1950	
8N11W30B 2330.2	Nov. 14 a	39.0
8N12W4B 2307.7	Nov. 27	20.4
8N12W20A 2319	Nov. 20	31.9
8N12W22A 2301.5	July 26	17.6
	Oct. 24	28.8
	Nov. 20	20.4
	Dec. 7	28.9
8N12W22B 2302	Nov. 20	14.3
8N12W22C 2301	Nov. 20	16.4
8N12W24A 2310	Nov. 14 a	18.9
8N12W30B 2324	Nov. 27	26.3
8N13W7A 2442	Dec. 13	139.5
8N13W22A 2385.5	Dec. 15	94.3
8N13W23A 2376	Dec. 15	89.0
8N14W2B 2494.5	Dec. 13	173.7
8N14W12A 2472	Dec. 13	158.4
8N14W12B 2482.5	Dec. 13	162.4
8N14W14A 2495.5	Dec. 12	170.8
8N15W36A 2786.5	Dec. 24	88.2
8N16W5A 2901	Apr. 19	196.8
	July 25	197.0
	Oct. 24	197.2
8N16W18A 2995	Dec. 24	101.1
9N13W20A 2420.	Jan. 25	91.2
	Apr. 18	89.8
	July 25	91.4
	Oct. 24	93.3
9N13W35A 2378.1	Jan. 4	66.2
	Dec. 15	82.3
9N14W24B 2490.	Dec. 13	126.9
9N14W29A 2630.	Apr. 19	180.0

a Meas. from U.S.G.S.
Measts. from L.A.Co.F.C.D. except as noted.

CHAPTER IV. PRECIPITATION RECORDS

Monthly records of precipitation for ten United States Weather Bureau Stations and annual records for approximately 260 other stations in the area are presented herewith.

MONTHLY PRECIPITATION RECORDS
AT SELECTED STATIONS IN SOUTHERN CALIFORNIA
PUBLISHED BY U. S. WEATHER BUREAU

Precipitation in Inches

Season and Month	413 Long Beach	2754F Los Angeles	3290 Claremont	4142A Sierra Madre	4832 San Fernando
1949-50					
July	T	T	0	T	0
Aug.	T	0.01	0	0.02	0
Sep.	T	0.01	0	0.03	0
Oct.	T	0.01	0.22	0.34	0.02
Nov.	0.69	2.18	1.68	3.63	1.25
Dec.	3.49	2.72	4.32	4.49	2.97
Jan.	2.62	2.57	2.95	3.31	2.74
Feb.	2.65	1.67	2.54	2.78	2.00
Mar.	0.54	0.87	1.12	2.01	1.10
Apr.	0.38	0.56	0.91	2.44	0.80
May	0.14	T	0.11	0.29	0.05
June	0.01	T	0	0.34	0
TOTALS	10.52	10.60	13.85	19.68	10.93

	14552 Santa Ana	15933 Corona	Riverside	17417 Beaumont	18826 San Bernardino (near)
July	0	0	0	0	0
Aug.	0	0	0	0	0
Sep.	0	0	0	0	0
Oct.	0.08	0.11	0.10	0.01	0.12
Nov.	1.62	0.89	1.09	1.45	2.37
Dec.	2.52	1.41	1.46	2.85	2.17
Jan.	2.55	1.90	1.72	3.13	2.52
Feb.	2.40	2.16	1.80	2.54	2.48
Mar.	0.88	0.61	0.65	1.68	1.07
Apr.	0.78	0.47	0.63	1.07	0.88
May	0.12	0.06	0.68	0.20	0.20
June	0	0.03	T	0	0.03
TOTALS	10.95	7.64	7.53	12.93	11.84

T - Less than 0.01 inch.

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
185	O-6	125	7.79	L.A. Co. F.C.D.
210	N-7	300	8.87	L.A. Co. F.C.D.
327	P-9	10	10.02	U.S.W.B. (San Pedro)
401	N-10	40	8.69	L.A. Co. F.C.D.
403	O-10	30	9.00	L.A. Co. F.C.D.
413	O-10	40	10.52	U.S.W.B. (Long Beach)
452	N-11	15	10.05	L.A. Co. F.C.D.
453	O-11	15	8.89	L.A. Co. F.C.D.
485	O-12	25	10.10	O. Co. F.C.D.
587	P-14	15	8.50	O. Co. F.C.D.
596	O-14	25	7.68	O. Co. F.C.D.
715	M-7	50	8.83	L.A. Co. F.C.D.
864	M-10	195	10.06	L.A. Co. F.C.D.
985	M-12	45	9.09	L.A. Co. F.C.D.
1014	M-12	50	9.57	L.A. Co. F.C.D.
1030	L-13	85	10.24	L.A. Co. F.C.D.
1081	L-14	90	10.02	L.A. Co. F.C.D.
1099	N-14	60	8.66	O. Co. F.C.D.
1137	M-15	105	10.07	O. Co. F.C.D.
1187	M-16	155	9.43	O. Co. F.C.D.
1199	N-16	140	9.73	O. Co. F.C.D.
1241	I-5	10	9.79	L.A. Co. F.C.D.
1288	K-6	135	8.64	L.A. Co. F.C.D.
1343	J-7	120	10.21	L.A. Co. F.C.D.
1444	J-9	120	9.66	L.A. Co. F.C.D.
1482	J-10	165	10.01	L.A. Co. F.C.D.
1502	J-10	145	9.51	L.A. Co. F.C.D.
1546	K-11	105	10.01	L.A. Co. F.C.D.
1552	J-11	140	10.42	L.A. Co. F.C.D.
1565	K-12	120	10.07	L.A. Co. F.C.D.
1604	J-12	140	10.04	L.A. Co. F.C.D.
1661	J-13	365	10.31	L.A. Co. F.C.D.
1664	J-13	215	9.99	L.A. Co. F.C.D.
1700	I-14	860	13.14	L.A. Co. F.C.D.
1706	K-14	250	11.00	L.A. Co. F.C.D.
1750	I-15	465	12.15	L.A. Co. F.C.D.
1757	K-15	285	10.92	O. Co. F.C.D.
1774	J-15	635	12.73	L.A. Co. F.C.D.

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
1786	K-16	475	12.25	O. Co. F.C.D.
1853	J-17	710	11.55	L.A. Co. F.C.D.
1862	J-17	765	12.76	L.A. Co. F.C.D.
1901	I-18	975	12.54	O. Co. F.C.D.
1906	K-18	850	13.04	O. Co. F.C.D.
1933	J-19	1150	12.91	O. Co. F.C.D.
2401	G-3	745	18.04	L.A. Co. F.C.D.
2445	H-3	95	11.26*	L.A. Co. F.C.D.
2508A	I-5	88	10.44	U.S.W.B. (Santa Monica)
2511	G-5	1025	15.74	L.A. Co. F.C.D.
2544	H-5	340	12.06	L.A. Co. F.C.D.
2551	G-6	540	13.96	L.A. Co. F.C.D.
2555	H-5	230	11.60	L.A. Co. F.C.D.
2592	H-6	255	11.86	L.A. Co. F.C.D.
2607	I-7	65	8.45	L.A. Co. F.C.D.
2643	H-7	175	10.68	L.A. Co. F.C.D.
2686	H-8	200	9.82	L.A. Co. F.C.D.
2754	H-9	285	10.52	L.A. Co. F.C.D.
2754F	H-9	312	10.60	U.S.W.B. (Los Angeles)
2755	H-9	260	10.40	L.A. Co. F.C.D.
2870	G-12	485	14.58	L.A. Co. F.C.D.
2875	H-12	375	11.34	L.A. Co. F.C.D.
2915	H-12	320	13.61	L.A. Co. F.C.D.
2962	G-13	285	13.24	L.A. Co. F.C.D.
3009	I-14	600	11.88	L.A. Co. F.C.D.
3053	H-15	360	12.16	L.A. Co. F.C.D.
3079	I-15	375	12.99	L.A. Co. F.C.D.
3094	H-16	470	11.52	L.A. Co. F.C.D.
3121	G-16	575	13.18	L.A. Co. F.C.D.
3123	H-16	630	11.30	L.A. Co. F.C.D.
3149A	I-17	530	11.99	L.A. Co. F.C.D.
3155	H-17	770	13.36	L.A. Co. F.C.D.
3160	G-17	805	13.95	L.A. Co. F.C.D.
3190	G-18	1030	14.07	L.A. Co. F.C.D.
3223	H-18	840	14.13	U.S.W.B. (Pomona)
3244	H-19	860	12.44	L.A. Co. F.C.D.
3256	I-19	780	11.12	L.A. Co. F.C.D.
3280	G-19	1165	14.38	L.A. Co. F.C.D.
3290	G-20	1195	13.85	U.S.W.B. (Claremont)
3602	E-3	875	9.37	L.A. Co. F.C.D.
3685	F-4	1000	8.13	L.A. Co. F.C.D.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
3706	F-5	1400	12.22	L.A. Co. F.C.D.
3742	E-5	695	8.38	L.A. D. of W. & P.
3749	G-5	725	15.14	L.A. Co. F.C.D.
3786	F-6	1175	11.90	L.A. Co. F.C.D.
3810	E-7	730	5.14	L.A. Co. F.C.D.
3834	F-7	595	9.61	L.A. Co. F.C.D.
3868	F-8	750	11.60	L.A. Co. F.C.D.
3891	E-8	620	8.87	L.A. Co. F.C.D.
3894	F-8	470	9.73	L.A. Co. F.C.D.
3897	F-8	1025	11.98	L.A. Co. F.C.D.
3906	F-8	1400	12.17	L.A. Co. F.C.D.
3907	F-8	1400	11.93	L.A. Co. F.C.D.
3917	G-9	750	12.36	L.A. Co. F.C.D.
3921A	E-9	1300	9.91	L.A. Co. F.C.D.
3934	F-9	530	11.50	L.A. Co. F.C.D.
3939	G-9	455	9.60	L.A. Co. F.C.D.
3943	E-9	620	11.13	L.A. Co. F.C.D.
4001	E-10	1335	13.72	L.A. Co. F.C.D.
4010	E-10	1155	14.10	L.A. Co. F.C.D.
4023	E-11	1040	13.80	L.A. Co. F.C.D.
4028	G-11	620	12.48	L.A. Co. F.C.D.
4048	G-11	690	12.77	L.A. Co. F.C.D.
4061	E-11	1125	14.87	L.A. Co. F.C.D.
4073	F-12	985	15.91	L.A. Co. F.C.D.
4076	F-12	750	14.96*	L.A. Co. F.C.D.
4087	F-12	670	15.38	L.A. Co. F.C.D.
4092	E-12	1055	15.77	L.A. Co. F.C.D.
4099	G-12	490	13.69	L.A. Co. F.C.D.
4110	E-12	2515	20.70	L.A. Co. F.C.D.
4111	E-12	1385	18.43	L.A. Co. F.C.D.
4135	F-13	630	15.28	L.A. Co. F.C.D.
4142A	E-13	1120	18.37	L.A. Co. F.C.D.
4152	E-13	1100	19.16	L.A. Co. F.C.D.
4153	E-13	985	18.71	L.A. Co. F.C.D.
4154	F-13	660	15.98*	L.A. Co. F.C.D.
4163	F-13	700	16.72	L.A. Co. F.C.D.
4164	F-13	610	15.50	L.A. Co. F.C.D.
4171A	E-14	1440	18.51	L.A. Co. F.C.D.
4180	E-14	1700	24.25*	L.A. Co. F.C.D.
4195	F-14	600	14.79	L.A. Co. F.C.D.
4195A	F-14	505	14.89	L.A. Co. F.C.D.
4211	E-14	1800	22.82	L.A. Co. F.C.D.
4212	E-14	1375	19.79	L.A. Co. F.C.D.
4230	E-15	2725	26.24	L.A. Co. F.C.D.

* Partially estimated by comparision with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
4231	E-15	2300	21.14	L.A. Co. F.C.D.
4285	F-16	675	15.95	L.A. Co. F.C.D.
4293	E-16	800	16.89	L.A. Co. F.C.D.
4294	F-16	750	16.34	U.S.W.B. (San Gabriel Power House)
4296	F-16	600	14.63	L.A. Co. F.C.D.
4296A	F-16	605	15.01	U.S.W.B. (Azusa)
4306	F-16	615	14.70	L.A. Co. F.C.D.
4309	G-16	545	12.15	L.A. Co. F.C.D.
4331	E-16	1210	19.55	L.A. Co. F.C.D.
4336	F-17	785	15.28	L.A. Co. F.C.D.
4346	F-17	820	16.16	L.A. Co. F.C.D.
4354	F-17	1200	17.50	L.A. Co. F.C.D.
4383	E-18	1575	20.71	L.A. Co. F.C.D.
4386	F-17	965	15.77	L.A. Co. F.C.D.
4399	G-18	960	14.00	L.A. Co. F.C.D.
4407	F-18	1110	15.62	L.A. Co. F.C.D.
4407A	G-18	1080	14.39	L.A. Co. F.C.D.
4424	F-18	1350	17.90	L.A. Co. F.C.D.
4433	E-18	1500	19.22	L.A. Co. F.C.D.
4444	F-19	1680	17.37	L.A. Co. F.C.D.
4457	F-19	1435	14.59	L.A. Co. F.C.D.
4517	G-20	1525	16.06	L.A. Co. F.C.D.
4522	E-20	2500	20.94	U.S.W.B. (Mouth of San Antonio Canyon)
4545	F-21	1785	17.22	J.R. Johnston
4687	D-2	900	10.87	L.A. Co. F.C.D.
4694	C-2	965	12.41	L.A. Co. F.C.D.
4747	D-4	900	9.53	L.A. Co. F.C.D.
4782	C-4	1150	12.70	L.A. Co. F.C.D.
4811	C-5	1150	12.63	L.A. Co. F.C.D.
4832	C-5	950	10.93	L.A. Co. F.C.D.
4837	D-5	815	8.84	L.A. Co. F.C.D.
4864	C-6	945	8.92	L.A. Co. F.C.D.
4894	C-6	955	9.26	L.A. Co. F.C.D.
4946	D-7	1000	8.19	L.A. Co. F.C.D.
5014	C-8	1750	10.84	L.A. Co. F.C.D.
5060	C-10	1825	19.02	L.A. Co. F.C.D.
5067	D-9	1565	17.27	L.A. Co. F.C.D.
5076	D-10	2325	17.84	L.A. Co. F.C.D.
5109	E-10	1280	14.49	L.A. Co. F.C.D.
5115	D-11	1820	20.11	L.A. Co. F.C.D.
5127	D-11	1490	14.79	U.S.W.B. (Arroyo Seco)

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
5139	E-11	1180	14.73	L.A. Co. F.C.D.
5144	C-11	2980	18.61	L.A. Co. F.C.D.
5204	C-12	4230	29.47	U.S.W.B. (Opid's Camp)
5247	D-13	5650	25.03	L.A. Co. F.C.D.
5267	D-13	3225	31.56	L.A. Co. F.C.D.
5269	D-13	2600	31.61	L.A. Co. F.C.D.
5446	D-17	1500	21.20	L.A. Co. F.C.D.
5549	D-19	2700	20.74	L.A. Co. F.C.D.
5646	D-21	4320	23.38	U.S.W.B. (Camp Baldy)
5861	A-4	1245	9.05	L.A. Co. F.C.D.
5872	A-4	1270	9.27*	L.A. Co. F.C.D.
5908	B-5	1225	13.45	L.A. Co. F.C.D.
5922	A-5	1480	10.87	L.A. Co. F.C.D.
5928	B-5	1250	12.72	L.A. Co. F.C.D.
5988	B-6	1455	13.21	L.A. Co. F.C.D.
6005	B-7	1700	13.04	L.A. Co. F.C.D.
6289A	B-12	3625	18.26	L.A. Co. F.C.D.
6355	A-13	4300	11.08	U.S.W.B. (Alder Creek)
6558A	B-17	5735	24.77	L.A. Co. F.C.D.
6569	B-17	4650	18.68	L.A. Co. F.C.D.
6702	A-20	6860	16.42	L.A. Co. F.C.D.
6711	A-20	7500	10.96	L.A. Co. F.C.D.
7017	A-3	1095	7.05	L.A. Co. F.C.D.
13193	Q-14	35	8.60	O. Co. F.C.D.
13301	Q-16	35	7.14	O. Co. F.C.D.
13309	R-16	10	9.55	U.S.W.B. (Newport Beach)
13363	Q-17	65	8.26	O. Co. F.C.D.
13402	Q-18	100	7.85	O. Co. F.C.D.
13406	R-18	300	11.09	O. Co. F.C.D.
13432	Q-19	190	7.34	O. Co. F.C.D.
13480	P-19	445	8.84	O. Co. F.C.D.
13484	Q-19	350	7.79	O. Co. F.C.D.
13499	R-20	375	10.19	O. Co. F.C.D.
13633	Q-22	1100	13.72	O. Co. F.C.D.
13864	Q-27	1270	6.17*	U.S.W.B. (Elsinore)
13902	Q-28	1390	3.96	Temescal Water Company
14408	P-14	20	8.62	O. Co. F.C.D.
14451	N-15	100	8.89	O. Co. F.C.D.
14549	P-17	55	8.53	O. Co. F.C.D.
14552	O-17	205	10.95	U.S.W.B. (Santa Ana)
14586	O-17	120	10.19	O. Co. F.C.D.
14617	P-18	120	9.23	U.S.W.B. (Tustin, near)
14649	P-19	245	9.22	O. Co. F.C.D.
14673	O-19	1000	13.26	O. Co. F.C.D.
14765	O-21	1500	13.91	O. Co. F.C.D.
14835	O-22	2000	21.80	O. Co. F.C.D.
14902	N-24	1100	9.97	Temescal Water Co.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
15420	N-34	1550	7.13	U.S.W.B. (San Jacinto)
15602	L-16	195	11.02	O. Co. F.C.D.
15614	L-16	195	9.33	O. Co. F.C.D.
15623	L-16	225	11.16	O. Co. F.C.D.
15678	M-17	295	10.64	O. Co. F.C.D.
15679	N-17	285	11.01	O. Co. F.C.D.
15681	L-18	385	11.65	U.S.W.B. (Yorba Linda)
15860	L-21	480	10.21	O. Co. F.C.D.
15903	L-22	840	10.70	Corona Foothill Lemon Co.
15925	M-22	1055	11.04	Corona Foothill Lemon Co.
15926	M-22	1250	12.16*	Corona Foothill Lemon Co.
15932	L-22	700	9.52	Temescal Water Co.
15933	L-22	855	7.64	U.S.W.B. (Corona)
15955	M-23	1050	7.97	American Fruit Growers Assn.
16240	L-28	1475	6.06	March Air Force Base
16710	I-20	670	10.56	Southern Calif. Edison Co., Ltd.
16801	J-22	655	8.27	John Imbach
16845	K-22	660	7.50	Capt. C. Gully
17062	J-27	1040	8.40	Riverside Citrus Experiment Station
17342	J-32	2220	10.25	Moreno Mutual Water Co.
17417	K-34	2580	12.93	U.S.W.B. (Beaumont)
17421	J-34	3045	15.67	U.S.W.B. (Beaumont, near)
17608	I-20	710	11.40	American Beet Sugar Co.
17613	H-20	985	13.10	West Ontario Citrus Assn.
17630	G-20	1230	15.71	Mr. Jordan
17653	H-21	1010	13.20	Southern Pacific Company
17674	H-21	930	11.83	Braundale Acres
17703	H-22	975	11.31	Garrett & Co., Incorp.
17860	G-25	1270	12.50	Fontana Farms Co.
17973	H-27	975	8.69	Southern Pacific Co.
17973A	H-27	980	9.07	Colton Police Department
17984	H-27	950	9.09*	Southern Calif. Edison Co., Ltd.
18114	H-30	1360	9.38	U.S.W.B. (Redlands)
18194	H-31	2000	11.33	F.B. King
18256	I-33	2650	12.13	R.H. Arnett
18260	G-32	2965	14.04	U.S.W.B. (Mill Creek No. 2)
18351	G-34	5100	15.15	Southern Calif. Edison Co., Ltd.
18507	F-22	1390	16.45	Alta Loma Heights Citrus Assn.
18514	F-22	1845	18.79	Victor Cherbak

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1949-50
(Season - July 1 to June 30)

Station	Map Index	Elevation	Precipitation in inches	Source of Information
18529A	G-22	1215	13.57	Garrett & Co., Inc.
18586	F-23	1425	16.60	W. F. Barnes
18642	F-25	1875	22.75	U.S.W.B. (Bennett Ranch)
18679	G-25	1320	13.78	U.S.W.B. (Fontana)
18704	F-26	1590	15.89	So. Calif. Edison Co. Ltd.
18782	E-27	1415	16.55	San Bernardino Water Dept.
18809A	G-28	1030	9.94	San Bernardino Water Dept.
18826	F-28	1170	11.84	U.S.W.B. (San Bernardino, near)
18886	F-28	1345	12.44	Mrs. E. E. Corwin
18906	F-29	1435	12.60	Thomas A. Ewing
18928	G-30	1365	9.17	Gold Buckle Association
18937	G-30	1515	12.97	East Highlands Orange Co.
18999	G-31	2060	12.83	So. Calif. Edison Co. Ltd.
19045	F-32	2765	18.58	U.S.W.B. (Santa Ana River)
19161	E-35	5000	16.20	U.S.W.B. (Seven Oaks)
19416	D-24	2720	20.98	U.S.W.B. (Lytle Creek Ranger Station)
19449	E-25	2260	29.03	Fontana Union Water Co.
19459	E-25	2250	28.35	U.S.W.B. (Lytle Creek)
19569	E-27	1900	21.42	San Bernardino Water Dept.
19656	D-28	5700	33.00	U.S.W.B. (Squirrel Inn No. 2)
19723	C-30	6250	33.37	Lake Arrowhead Company
19799	E-31	6230	30.09	California State Division of Highways
19915	D-34	6800	28.87	U.S.W.B. (Big Bear Lake Dam)

LEGEND

- WELLS AT WHICH WATER LEVEL FLUCTUATIONS ARE SHOWN
- WATER POLLUTION CONTROL REGION BOUNDARY
- 8-8 | 8-7 — GROUND WATER BASIN
- GROUND WATER SUB-BASIN BOUNDARY
- 4 — WATER POLLUTION CONTROL REGION NUMBER
- 4-1 — GROUND WATER BASIN NUMBER
- 4-1.01 — GROUND WATER SUB-BASIN NUMBER
- COUNTY BOUNDARY
- 66 — U S. HIGHWAY

LOS ANGELES REGION NO. 4, GROUND WATER BASINS

4- 1 Upper Ojai Valley
4- 2 Ojai Valley
4- 3 Ventura River Valley
4- 4 Santa Clara River Valley
4-4.01 Oxnard Plain Basin
4-4.02 Oxnard Forebay Basin
4- 5 Acton Valley
4- 6 Pleasant Valley
4- 7 Arroyo Santa Rosa Valley
4- 8 Las Posas Valley
4- 9 Simi Valley
4-10 Conejo Valley
4-11 Coastal Plain, Los Angeles County
4-11.02 West Coast Basin
4-11.03 Central Coastal Plain Pressure Area
4-11.05 Montebello Forebay Area
4-12 San Fernando Valley
4-12.01 San Fernando Basin
4-13 San Gabriel Valley
4-13.01 Main San Gabriel Basin
4-13.03 Pasadena Sub-area
4-13.04 Santa Anita Sub-area
4-14 Upper Santa Ana Valley, Los Angeles County

LAHONTAN REGION NO. 6, GROUND WATER BASINS

6-44 Antelope Valley

SANTA ANA REGION NO. 8, GROUND WATER BASINS

8- 1 Coastal Plain, Orange County
8-1.01 East Coastal Plain Pressure Area
8-1.02 Santa Ana Forebay Area
8- 2 Upper Santa Ana Valley
8-2.01 Chino Basin
8-2.06 Bunker Hill Basin
8- 3 Cajalco Valley
8- 4 Elsinore Basin
8- 5 San Jacinto Basin
8- 6 Hemet Lake Valley
8- 7 Big Meadows Valley
8- 8 Seven Oaks Valley
8- 9 Bear Valley

SAN DIEGO REGION NO. 9, GROUND WATER BASINS

9- 1 San Juan Valley
9- 2 San Mateo Valley
9- 3 San Onofre Valley
9- 4 Santa Margarita Valley
9- 5 Temecula Valley
9- 6 Coahuila Valley
9- 7 San Luis Rey Valley
9- 8 Warner Valley
9- 9 Escondido Valley
9-10 San Pasqual Valley
9-11 Santa Maria Valley
9-12 San Dieguito Valley
9-13 Poway Valley
9-14 Mission Valley
9-15 San Diego River Valley
9-16 El Cajon Valley
9-17 Sweetwater Valley
9-18 Otay Valley
9-19 Tia Juana Basin
9-20 Jamul Valley

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
SOUTHERN CALIFORNIA AREA INVESTIGATION

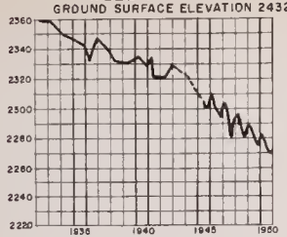
LOCATION OF WELLS AT WHICH WATER LEVEL FLUCTUATIONS ARE SHOWN

1950

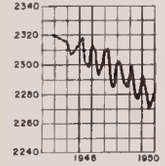
SCALE OF MILES
10 0 10 20

ELEVATION OF WATER LEVELS AT KEY WELLS IN FEET — U. S. G. S. DATUM

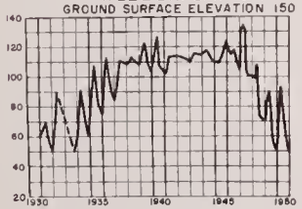
ANTELOPE VALLEY
WELL 7N/11W-24A
GROUND SURFACE ELEVATION 2432



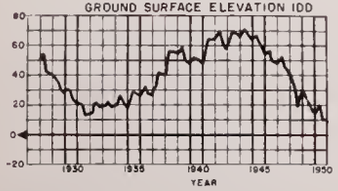
ANTELOPE VALLEY
WELL 7N/12W-15C
GROUND SURFACE ELEVATION 2348



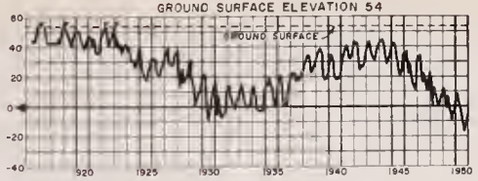
SANTA CLARA RIVER VALLEY
OXNARD FOREBAY BASIN
WELL 2N/21W-6P1
GROUND SURFACE ELEVATION 150



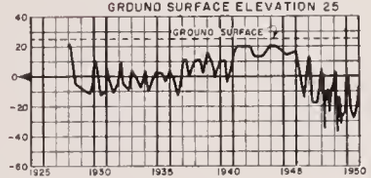
OXNARD FOREBAY BASIN
WELL 2N/22W-23D1
GROUND SURFACE ELEVATION 100



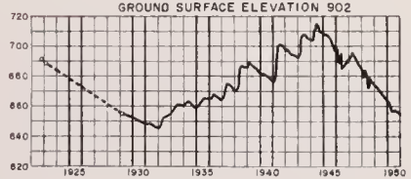
OXNARD PLAIN BASIN
WELL 1N/22W-3F4
GROUND SURFACE ELEVATION 54



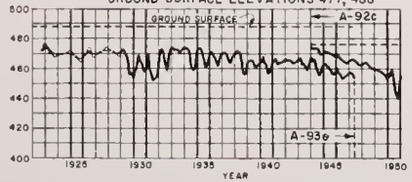
OXNARD PLAIN BASIN
WELL 1N/22W-23J1
GROUND SURFACE ELEVATION 25



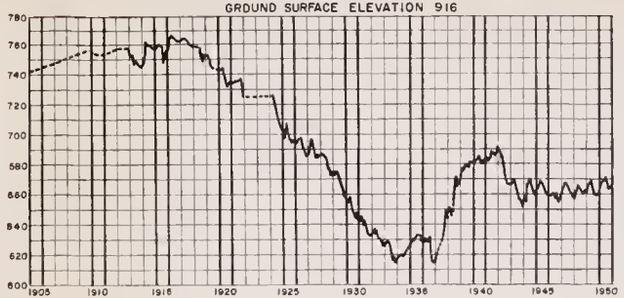
SAN FERNANDO VALLEY
SAN FERNANDO BASIN
WELL A-3I
GROUND SURFACE ELEVATION 902



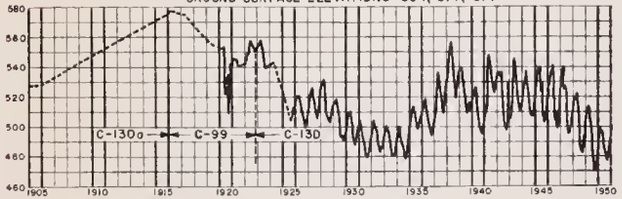
SAN FERNANDO BASIN
WELLS A-92c, 93e
GROUND SURFACE ELEVATIONS 477, 488



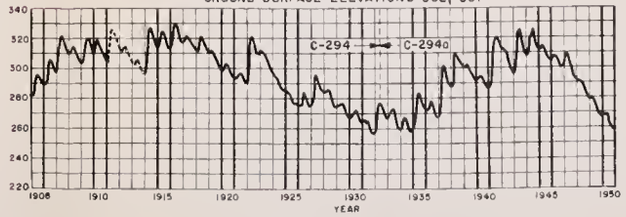
SAN GABRIEL VALLEY
RAYMOND BASIN AREA, PASADENA SUBAREA
WELL C-16
GROUND SURFACE ELEVATION 916



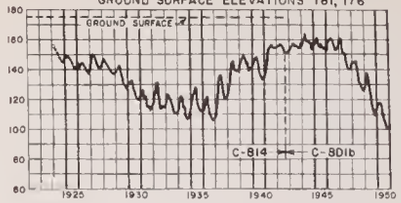
RAYMOND BASIN AREA, SANTA ANITA SUBAREA
WELLS C-99, 130, 130a
GROUND SURFACE ELEVATIONS 694, 677, 677



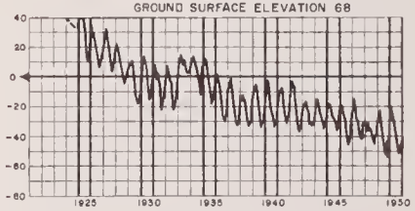
MAIN SAN GABRIEL BASIN
WELLS C-294, 294a
GROUND SURFACE ELEVATIONS 382, 387



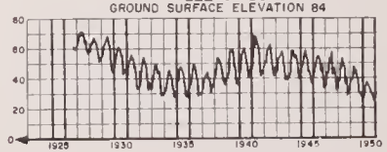
COASTAL PLAIN, LOS ANGELES COUNTY
MONTEBELLO FOREBAY AREA
WELLS C-801b, 814
GROUND SURFACE ELEVATIONS 181, 176



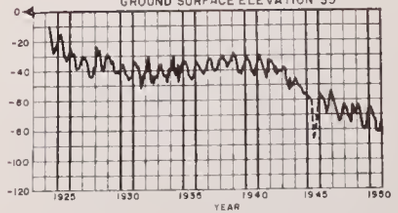
CENTRAL COASTAL PLAIN PRESSURE AREA
WELL C-926
GROUND SURFACE ELEVATION 68



CENTRAL COASTAL PLAIN PRESSURE AREA
WELL C-861
GROUND SURFACE ELEVATION 84



WEST COAST BASIN
WELL B-115g
GROUND SURFACE ELEVATION 35



FLUCTUATION OF WATER LEVELS
AT
KEY WELLS

"F" INDICATES PERIOD DURING WHICH WELL FLOWED

DIVISION OF WATER RESOURCES

SHEET 1 OF 2

LEGEND

- WELLS AT WHICH WATER LEVEL FLUCTUATIONS ARE SHOWN
- WATER POLLUTION CONTROL REGION BOUNDARY
- 8-8 | 8-7 GROUND WATER BASIN
- GROUND WATER SUB-BASIN BOUNDARY
- 4 WATER POLLUTION CONTROL REGION NUMBER
- 4-1 GROUND WATER BASIN NUMBER
- 4-1.01 GROUND WATER SUB-BASIN NUMBER
- COUNTY BOUNDARY
- 66 U S HIGHWAY

LOS ANGELES REGION NO. 4, GROUND WATER BASINS

4- 1	Upper Ojai Valley
4- 2	Ojai Valley
4- 3	Ventura River Valley
4- 4	Santa Clara River Valley
4-4.01	Oxnard Plain Basin
4-4.02	Oxnard Forebay Basin
4- 5	Acton Valley
4- 6	Pleasant Valley
4- 7	Arroyo Santa Rosa Valley
4- 8	Las Posas Valley
4- 9	Simi Valley
4-10	Conejo Valley
4-11	Coastal Plain, Los Angeles County
4-11.02	West Coast Basin
4-11.03	Central Coastal Plain Pressure Area
4-11.05	Montebello Forebay Area
4-12	San Fernando Valley
4-12.01	San Fernando Basin
4-13	San Gabriel Valley
4-13.01	Main San Gabriel Basin
4-13.03	Pasadena Sub-area
4-13.04	Santa Anita Sub-area
4-14	Upper Santa Ana Valley, Los Angeles County

LAHONTAN REGION NO. 6, GROUND WATER BASINS

6-44 Antelope Valley

SANTA ANA REGION NO. 8, GROUND WATER BASINS

8- 1	Coastal Plain, Orange County
8-1.01	East Coastal Plain Pressure Area
8-1.02	Santa Ana Forebay Area
8- 2	Upper Santa Ana Valley
8-2.01	Chino Basin
8-2.06	Bunker Hill Basin
8- 3	Cajalco Valley
8- 4	Elsinore Basin
8- 5	San Jacinto Basin
8- 6	Hemet Lake Valley
8- 7	Big Meadows Valley
8- 8	Seven Oaks Valley
8- 9	Bear Valley

SAN DIEGO REGION NO. 9, GROUND WATER BASINS

9- 1	San Juan Valley
9- 2	San Mateo Valley
9- 3	San Onofre Valley
9- 4	Santa Margarita Valley
9- 5	Temecula Valley
9- 6	Coahuila Valley
9- 7	San Luis Rey Valley
9- 8	Warner Valley
9- 9	Escondido Valley
9-10	San Pasqual Valley
9-11	Santa Maria Valley
9-12	San Dieguito Valley
9-13	Poway Valley
9-14	Missing Valley
9-15	San Diego River Valley
9-16	El Cajon Valley
9-17	Sweetwater Valley
9-18	Otay Valley
9-19	Tia Juana Basin
9-20	Jamul Valley

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

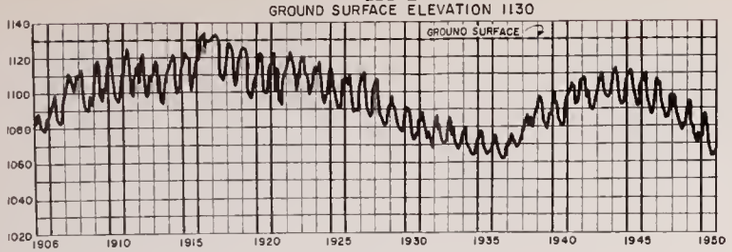
SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF WELLS AT WHICH WATER LEVEL FLUCTUATIONS ARE SHOWN

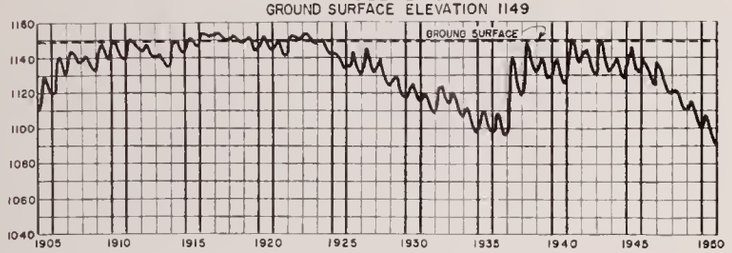
1950

SCALE OF MILES
10 0 10 20

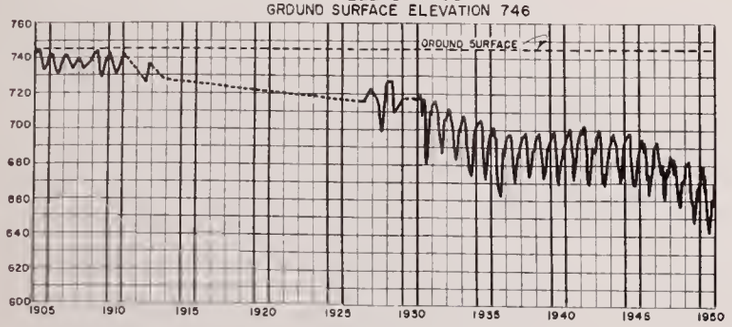
UPPER SANTA ANA VALLEY
BUNKER HILL BASIN
WELL E-37
GROUND SURFACE ELEVATION 1130



BUNKER HILL BASIN
WELL E-109
GROUND SURFACE ELEVATION 1149

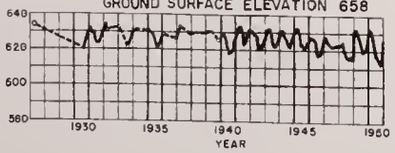


CHINO BASIN
WELL D-743Z
GROUND SURFACE ELEVATION 746

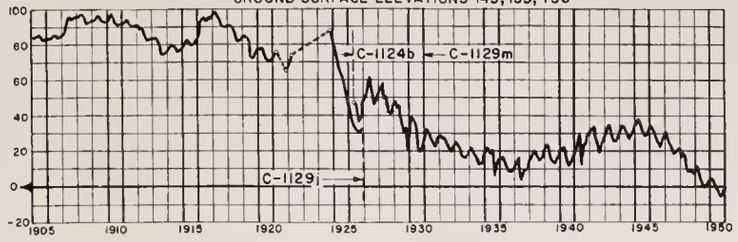


ELEVATION OF WATER LEVELS AT KEY WELLS IN FEET — U. S. G. S. DATUM

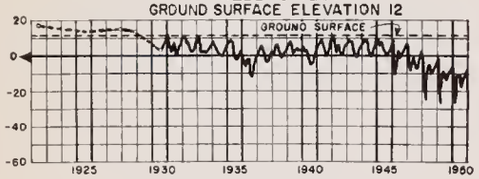
CHINO BASIN
WELL D-909
GROUND SURFACE ELEVATION 658



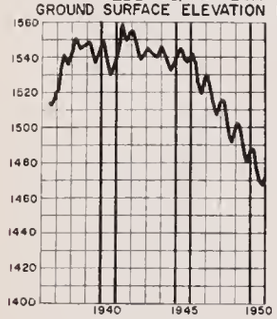
COASTAL PLAIN, ORANGE COUNTY
SANTA ANA FOREBAY AREA
WELLS C-1124b,1129j, 1129m
GROUND SURFACE ELEVATIONS 145, 135, 136



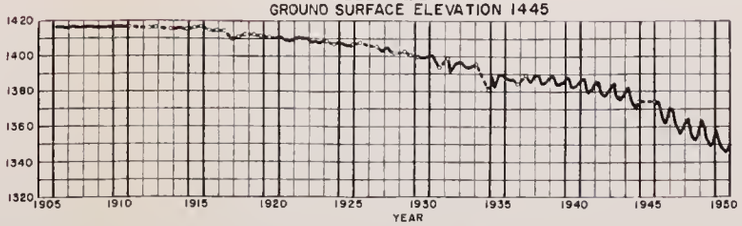
EAST COASTAL PLAIN PRESSURE AREA
WELL C-1257
GROUND SURFACE ELEVATION 12



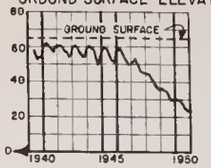
SAN JACINTO VALLEY
SAN JACINTO BASIN
WELL 4S/1W-25A
GROUND SURFACE ELEVATION 1566



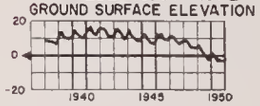
SAN JACINTO BASIN
WELL 4S/2W-7A
GROUND SURFACE ELEVATION 1445



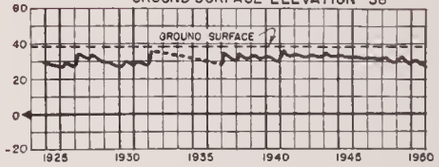
SAN LUIS REY VALLEY
WELL 11S/4W-9E1
GROUND SURFACE ELEVATION 65



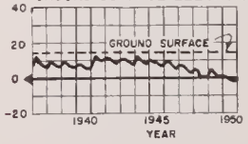
SAN LUIS REY VALLEY
WELL 11S/5W-13P2
GROUND SURFACE ELEVATION 21



TIA JUANA BASIN
WELL 19S/2W-2C3
GROUND SURFACE ELEVATION 38



TIA JUANA BASIN
WELL 19S/2W-5A1
GROUND SURFACE ELEVATION 15



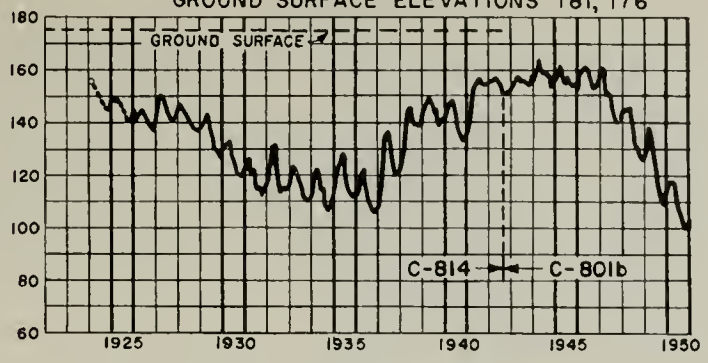
FLUCTUATION OF WATER LEVELS
AT
KEY WELLS

COASTAL PLAIN, LOS ANGELES COUNTY

MONTEBELLO FOREBAY AREA

WELLS C-801b, 814

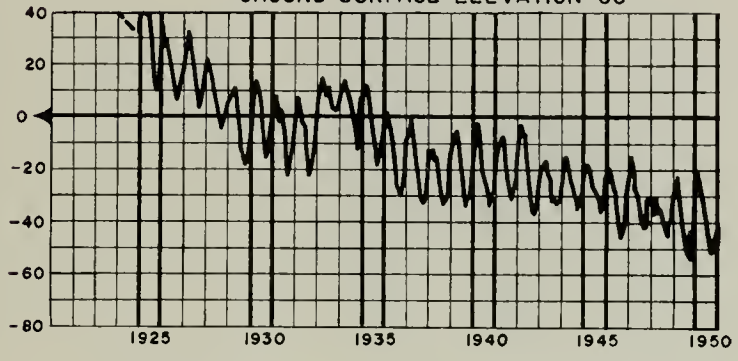
GROUND SURFACE ELEVATIONS 181, 176



CENTRAL COASTAL PLAIN PRESSURE AREA

WELL C-926

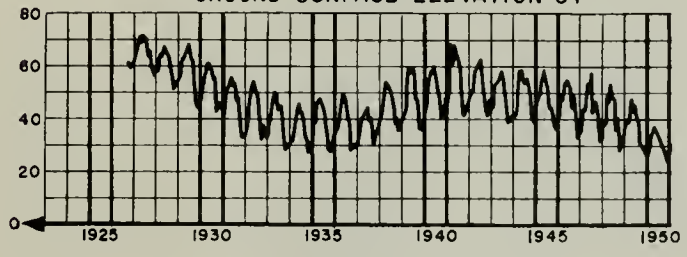
GROUND SURFACE ELEVATION 68



CENTRAL COASTAL PLAIN PRESSURE AREA

WELL C-861

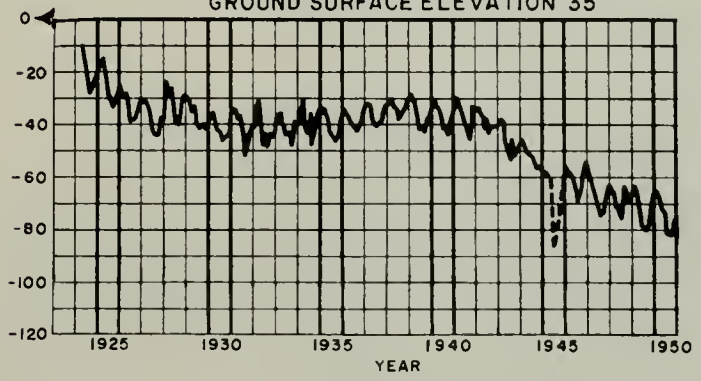
GROUND SURFACE ELEVATION 84



WEST COAST BASIN

WELL 8-115g

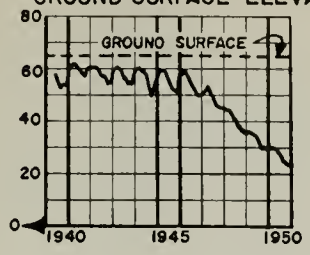
GROUND SURFACE ELEVATION 35



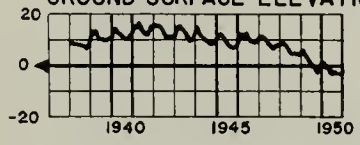
FLUCTUATION OF WATER LEVELS AT KEY WELLS

)OICATES PERIOD DURING WHICH WELL FLOWED

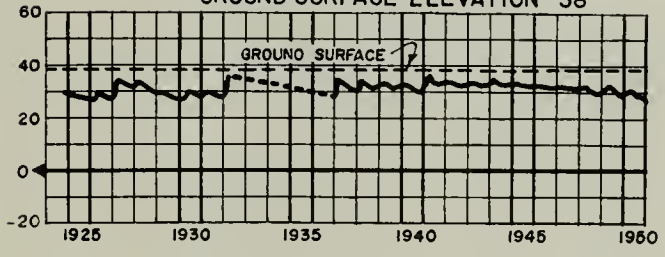
SAN LUIS REY VALLEY
WELL 11S/4W-9E1
GROUND SURFACE ELEVATION 65



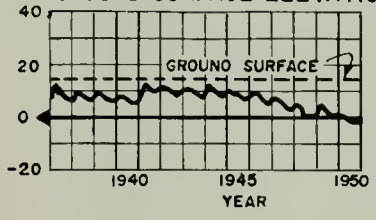
SAN LUIS REY VALLEY
WELL 11S/5W-13P2
GROUND SURFACE ELEVATION 21



TIA JUANA BASIN
WELL 19S/2W-2C3
GROUND SURFACE ELEVATION 38



TIA JUANA BASIN
WELL 19S/2W-5A1
GROUND SURFACE ELEVATION 15



FLUCTUATION OF WATER LEVELS
AT
KEY WELLS