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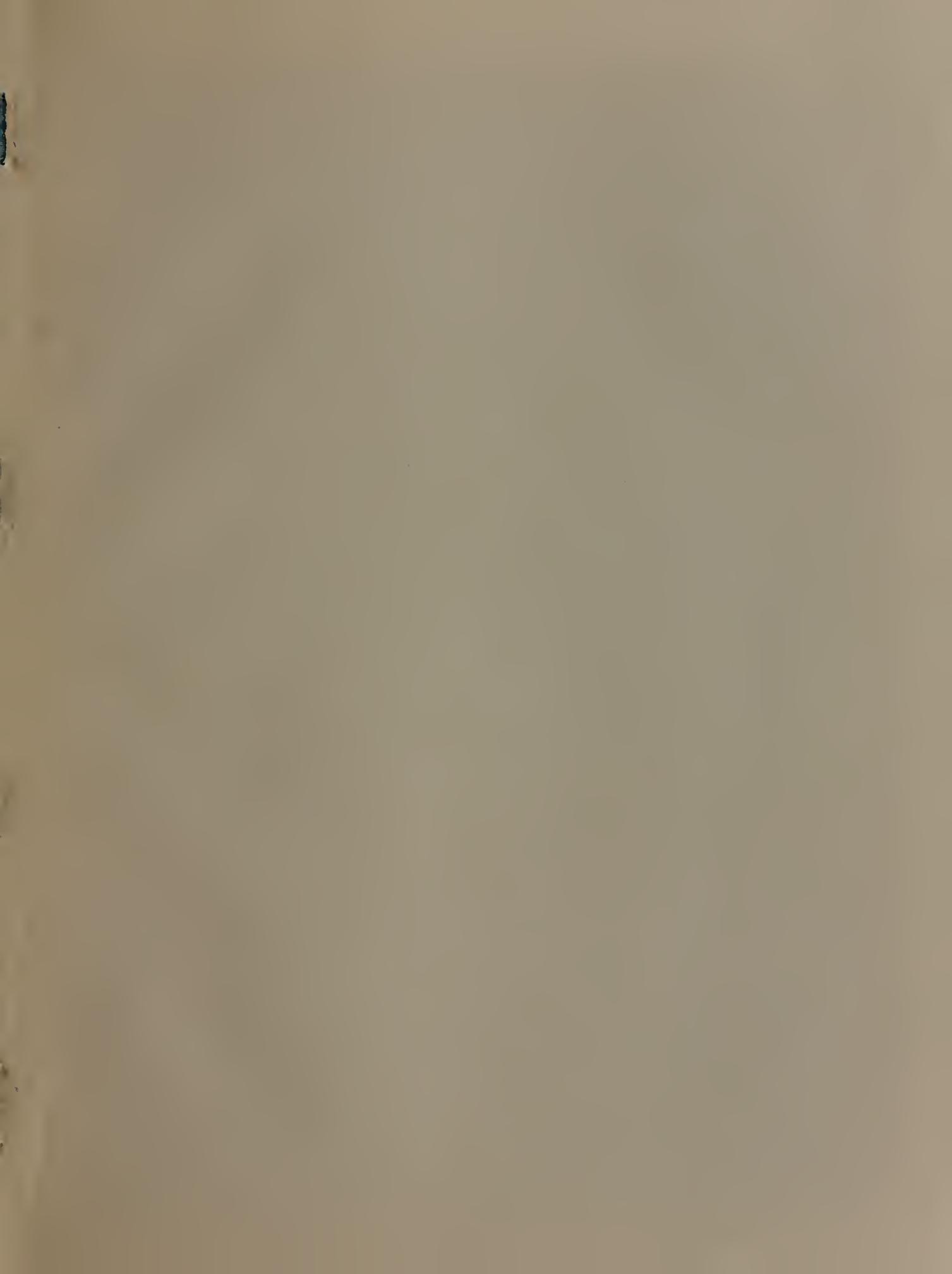
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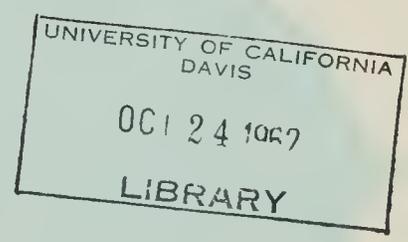


THE RESOURCES AGENCY OF CALIFORNIA
Department of Water Resources

BULLETIN No. 77-59

GROUND WATER CONDITIONS IN
CENTRAL AND NORTHERN CALIFORNIA
1958-59

FEBRUARY 1962



EDMUND G. BROWN
Governor
State of California

WILLIAM E. WARNE
Administrator
The Resources Agency of California
and Director
Department of Water Resources



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WILLIAM E. WARNE
Director of
Water Resources

EDMUND G. BROWN
GOVERNOR OF
CALIFORNIA

WILLIAM E. WARNE
ADMINISTRATOR
RESOURCES AGENCY

ADDRESS REPLY TO
P.O. Box 388
Sacramento 2, Calif.

JAMES F. WRIGHT
Chief Deputy Director

B. ABBOTT GOLDBERG
Deputy Director—Contracts

REGINALD C. PRICE
Deputy Director—Policy

ALFRED R. GOLZÉ
Chief Engineer



THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

1120 N STREET, SACRAMENTO

February 5, 1962

Honorable Edmund G. Brown, Governor, and
Members of the Legislature of the
State of California

Gentlemen:

I have the honor to transmit herewith Bulletin No. 77-59, entitled "Ground Water Conditions in Central and Northern California, 1958-59". This report is the second of an annual series of bulletins presenting information on ground water conditions and records of water levels in wells in Central and Northern California. In this respect, the report is similar to the annual reports of the Bulletin No. 39 series which, beginning in 1932, presented each year's record of ground water levels at wells and information on water supply conditions in Southern California. The activity is conducted under authority of Section 226 and 12616 of the California Water Code.

Ground water levels in the North Coastal, San Francisco Bay, and Central Valley Regions in the Spring of 1959 were generally lower than in the spring of 1958. Notable exceptions were increases in water levels in Livermore Valley, South Santa Clara County, and the Exeter, Lindsay-Strathmore, Lindmore, Lower Tule River, Tulare, Stone Corral, Orange Cove, and Corcoran Irrigation Districts.

In the Sacramento Valley, average ground water levels were somewhat lower than the levels of 1958. The lower levels during 1959 in Yuba, Placer, Sacramento, Yolo, and Solano Counties represent a continuation of the downward trend in water levels that has prevailed for many years.

In the San Joaquin Valley, significantly higher levels in 1959 were found in the ground water units that receive surface water from the Friant-Kern Canal. Long-term hydrographs for selected wells in these ground water units show a marked downward trend in water levels

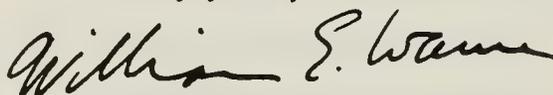
Honorable Edmund G. Brown, Governor, and
Members of the Legislature of the
State of California

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February 5, 1962

over the years prior to 1951, the first year of substantial deliveries from the Friant-Kern Canal. Subsequent to 1951 and through 1959 an upward trend is indicated, especially where ground water recharge has been increased by imported surface water coincident with some use of imported surface water in place of ground water. Significantly, lower levels are recorded in 1959 in the Edison-Maricopa Area, and in the Mendota-Huron Area in the western and southern portions of the San Joaquin Valley.

Sincerely yours,

A handwritten signature in cursive script, reading "William E. Wame".

Director

ACKNOWLEDGMENTS

During the preparation of this report valuable assistance and contributions were received from many public and private agencies and individuals. The sources of data presented in Appendixes A and B are noted therein.

Special mention is made of the following agencies whose cooperation is gratefully acknowledged:

Alameda County Flood Control and Water Conservation District

Alameda County Water District

Alta Irrigation District

Arcade County Water District

Buena Vista Water Storage District

Butte County

California Water Service Company

Colusa County

Consolidated Irrigation District

Corcoran Irrigation District

East Bay Municipal Utility District

El Nido Irrigation District

Fortuna, City of

Fresno, City of

Fresno Irrigation District

Glenn County

Kern County

Kern County Land Company

Lake County

Merced Irrigation District
Modesto Irrigation District
Monterey County Flood Control and Water Conservation District
Oakdale Irrigation District
Poso Soil Conservation District
Sacramento Municipal Utility District
San Benito County
San Joaquin County
Santa Clara Valley Water Conservation District
Santa Cruz County
Saucelito Irrigation District
Solano County
South San Joaquin Irrigation District
South Santa Clara Valley Water Conservation District
Sutter County
Tehama County
Turlock Irrigation District
United States Bureau of Reclamation
United States Geological Survey--Ground Water Branch
Yolo County
Yuba County

STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN, Governor
WILLIAM E. WARNE, Administrator, The Resources Agency of California
and Director, Department of Water Resources
ALFRED R. GOLZE, Chief Engineer

DIVISION OF RESOURCES PLANNING

William L. Berry Division Engineer

The investigation leading to this report
was conducted under the direction
of

William L. Horn Principal Engineer, Water Resources

by

Glenn R. Peterson Associate Engineer, Water Resources

Assisted by

David M. Hill Senior Engineering Geologist
Helen J. Peters Associate Engineer, Water Resources

CHAPTER I. INTRODUCTION

For many years the draft on the ground water resources of California has increased at a phenomenal rate. The use of ground water in California now far surpasses that of any other state in the Union. Today, more than one-half of the total water supplies beneficially used in the State are obtained from ground water sources. The ground water reservoirs which provide this important source of water occur principally in the larger alluvium-filled valleys of the State. In the Central Valley alone, the average annual draft on ground water exceeds 10,000,000 acre-feet—a quantity representing some 25 percent of the total extraction from ground water in the United States. Limited quantities of usable ground water, however, occur in the numerous small, shallow, alluvium-filled valleys throughout the State, as well as in extensive areas of older, slightly compacted sediments and in limited areas of water-bearing volcanics.

All studies of ground water problems and plans for the solution of those problems have one factor in common: They must be founded upon accurate records of ground water elevations obtained over a period of many years. This is true whether the problem is a determination of safe yield of a ground water basin, an operation of a basin for cyclic storage in conjunction with surface water supplies, the control of sea-water intrusion, or any of the many other problems that must be solved to maintain the benefits California derives from its ground water storage basins.

The importance of continuing records of basic ground water data was recognized at an early date in the South Coastal Area of Southern California. Use of ground water began about 1870 in the Los Angeles area,

and by 1900 approximately 10,000 wells had been drilled. The department, then known as the Division of Water Resources, in 1930 began the South Coastal Basin Investigation, a continuing hydrologic study of the Southern California area. As a part of that investigation, Bulletin No. 39, entitled "Records of Ground Water Levels at Wells", was published in 1932. Since that year, the records of water levels at selected wells in Southern California have been published annually in Bulletins 39-A through 39-W and Bulletins Nos. 39-56, 39-57, and 39-58.

In Central and Northern California, with the exception of the southern San Joaquin Valley and several smaller geographic areas, records of ground water levels, for certain years, have been obtained in connection with special investigations of water resources. Upon completion of the investigations, the water level measurements, in most cases, were discontinued or greatly reduced in number. A few local agencies have obtained and recorded ground water level records over a long period of time. On the east side of the San Joaquin Valley, from the Chowchilla River to the southern end of the valley, good records extending as far back as 1921 have been, and are being, obtained through the combined efforts of state, federal, and local agencies.

Through cooperative activities with federal and local agencies augmented by field work performed by the department, the program of annual and semiannual measurements of ground water levels is gradually being expanded to include better coverage and more ground water basins in California.

Authorization

Authorization for the continuing program of ground water measurement and collection, and publication of ground water level data is included in Sections 226 and 12616 of the California Water Code.

Section 226 provides that:

"The department, either independently or in cooperation with any person or any county, State, Federal, or other agency, may do any of the following:

- (a) Conduct investigations of all or any portion of any stream, stream system, lake or other body of water;
- (b) Investigate either or both surface and underground water conditions;
- (c) Collect records of diversion and use of water;
- (d) Supervise distribution of water in accordance with agreements and court orders therefor."

Section 12616 provides that:

"The department may conduct investigations of the water resources of the State, formulate plans for the control, conservation, protection, and utilization of such water resources, including solutions for the water problems of each portion of the State as deemed expedient and economically feasible, and may render reports thereon. In conducting such investigations and formulating such plans the department may conduct investigations and surveys to determine the availability, usability, extents, and boundaries of underground basins."

Prior Reports

Department of Water Resources Bulletin No. 77-58, October 1959, reported records of water level measurements in the ground water basins of Central and Northern California. Other reports of investigations and plans for water development in many of these basins have covered various aspects

of the hydrology of the basins and have included tabulations of the well data and water level measurements obtained during the investigations. Such reports, issued by the department or its predecessors, and by the U. S. Geological Survey, are listed in Appendix C.

Scope of Report

During the year covered by this report, the Department of Water Resources obtained records of fall 1958 and spring 1959 water levels in approximately 13,000 wells in the ground water basins of Central and Northern California. The period of record for many of these wells ranges from 40 years to less than one year.

Since significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 1,000 wells for which the records are presented in this report. These wells, designated as selected wells, were chosen on the basis of a number of factors such as areal distribution; length of water level record; frequency of measurements; conformity with respect to water level fluctuations in the ground water basin; and availability of a log, mineral analyses, and/or production records. The water level data of selected wells continue the record of those published in Bulletin 77-58 with a few wells added or removed. Water level fluctuations in 78 of the selected wells are depicted on the hydrographs presented on Plates 2 to 7, inclusive. Descriptions of the selected wells are given in Appendix A. The water level measurements made from July 1, 1958 to June 30, 1959, are given in Appendix B. The descriptive data for the selected wells, and the water level records for each, were placed on punch cards for machine processing of Appendixes A and B.

The well description data and water level measurements for the period of record for all of the 13,000 wells are being placed on punch cards. When this is accomplished, these records, by machine selection and sorting, will be available for any ground water basin, area, or unit, or for any combination that may be desired.

Related Information

Ground water contour maps of a ground water basin or unit are prepared for basins in which knowledge of the water level is sufficient. These maps are drawn to show lines of equal elevation of water in wells and for some basins, to also show, lines of equal depth to water. At appropriate intervals, commonly five years, contour maps are prepared to show lines of equal change in the water level in wells during the time interval. During 1958-59, elevation maps for the fall of 1958 and the spring of 1959 were completed for Sacramento Valley and southern San Joaquin Valley. Elevation maps for the spring of 1959 were completed for the Gilroy-Hollister area in San Benito County, Santa Clara Valley, Pajaro Valley, Salinas Valley, and San Joaquin County. Three depth maps were completed (1) for Sacramento Valley for the fall of 1958, (2) for Sacramento Valley for the spring of 1959, and (3) for San Joaquin County for the spring of 1959. A map showing lines of equal change of water levels in wells in Santa Clara Valley from January 1958 to March 1959 was also completed.

In addition to the records of water levels and ground water contour maps, prepared by the department and made available to the public,

Well Numbering System

The well numbering system used in this report is that developed by the United States Geological Survey and is based on the township, range, and section subdivision of the Public Land Survey. It conforms to the system used in all ground water investigations made by the Geological Survey in California and has been adopted by the Department of Water Resources. In this report, the number of a well, assigned in accordance with this system, is referred to as the "State" well number.

Under the system, each section is divided into 40-acre tracts lettered as follows:

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

Wells are numbered within each 40-acre tract according to the chronological sequence in which they have been assigned State Well Numbers. For example, a well which has the number 16N/1W-17K1,H would be in Township 16 North, Range 1 West, Section 17, H.B.& M., and would be further located as the first well assigned a State Well Number in Lot K. In this report, well numbers are referenced to the Humboldt Base and Meridian (H), the Mount Diablo Base and Meridian (M), or the San Bernardino Base and Meridian (S).

CHAPTER II. GROUND WATER CONDITIONS

Ground water levels in Central and Northern California were generally lower during 1958-59 than during the previous year. The sub-normal precipitation of the preceding two years, combined with an increase in ground water pumpage to supplement the subnormal surface water supplies, has produced significant lowering of ground water levels in many areas. In some areas, the deepening of wells and lowering of pumps has been necessary.

Ground water levels in the spring of 1959 were lower than they were in the spring of 1958 in the North Coastal, San Francisco Bay and Central Coastal Regions. Notable exceptions were rises in average water levels in Livermore Valley, Soquel Valley, South Santa Clara County, and Salinas Valley. In South Alameda County, Pajaro Valley, and Salinas Valley, where water levels in substantial parts of the ground water basins have remained below sea level, a sea water intrusion problem continues to exist. In the Sacramento Valley of the Central Valley Region, water levels were lower than in the spring of 1958 except in Tehama and Glenn Counties.

In the San Joaquin Valley of the Central Valley Region, significantly lower levels in 1959 were found generally in the Calaveras Unit of San Joaquin County and in the southern and western parts of the valley. Higher levels were experienced in and adjacent to those ground water areas on the east side of the valley that receive surface water from the Friant-Kern Canal. Long-term hydrographs for wells in ground water measurement areas on the east side of the valley show a marked downward trend in water

level over the years prior to 1951, the first year of substantial deliveries from the Friant-Kern Canal. Subsequent to 1951, an upward trend in water levels is shown. This upward trend is in areas where (1) additional recharge to the basin has occurred as a by-product of the application of surface water, (2) surface supplies have been deliberately added to the ground water body, and (3) ground water extraction has decreased as a result of the new surface supply.

During the spring of 1959, less deliberate recharge was accomplished at most projects than in 1958. The dryer than normal period made it necessary to utilize available surface supplies directly. However, a number of deliberate recharge projects did continue to operate, particularly where the ground water basin acts as a water distribution system.

Artificial recharge has been practiced extensively in the Santa Clara Valley, beginning about 1936, but only recently has been introduced in Central California. The widespread practice of deliberate recharge on the east side of the San Joaquin Valley occurred as a result of the availability of class two water from the Friant-Kern Canal beginning about 1950. There are now a number of recharge projects in other parts of Central and Northern California.

North Coastal Region

The North Coastal Region includes the basins draining into the Pacific Ocean between the California-Oregon border and the northern boundary of Lagunitas Creek drainage area in Marin County. The region extends approximately 270 miles from north to south and ranges in width

from 180 miles at the Oregon boundary to 30 miles in the southern portion. It includes all of Del Norte, Humboldt, Trinity and Mendocino Counties, and parts of Siskiyou, Modoc, Glenn, Lake, Sonoma and Marin Counties.

Ground water data are presented in this report for 17 ground water basins or units in the North Coastal Region. In 12 of these units, water levels in 1959 were lower than in 1958 and in the remaining 5 there was little or no change. The average decline in water level ranged from 0.2 feet in Alexander Valley to 5.6 feet in Round Valley.

Water level records for selected wells in the North Coastal Region are given in Appendix B. The average changes in water levels from 1958 to 1959 in ground water basins or units of the region are given in Table 1. A summary of ground water level data collected from July 1, 1958 to June 30, 1959, is given in Table 2. Plate 2, "Fluctuation of Water Level in Wells North Coastal Region", shows the change, at a few selected wells, during the period of record by means of hydrographs.

Smith River Plain

The Smith River Plain (1-1.00) borders the Pacific Ocean in the northwest part of Del Norte County. It averages 20 miles in length, 3.5 miles in width, and comprises about 110 square miles. The plain is a broad marine terrace of low relief at the base of a range of rugged mountains. The surface of the plain is underlain by marine-terrace deposits, alluvial fill, and sand dunes.

The major portion of the ground water storage capacity occurs in the unconsolidated stream-channel, flood-plain, lake, and alluvial-fan deposits; the loosely packed sand dunes; the river-terrace deposits;

TABLE 1
AVERAGE CHANGE IN GROUND WATER LEVELS IN
BASINS OR UNITS IN NORTH COASTAL REGION
SPRING 1958 TO SPRING 1959

Ground water basin or unit		: Number of	: Average	: Location and recorded maximum	
		: wells	: change in	: and minimum depth to water in	
		: considered	: ground water	: the spring of 1959,	
		: in	: level 1958	: in feet	
		: analysis	: to 1959,		
		:	: in feet		
Name	: Number	:	:	Maximum	
		:	:	: Minimum	
Smith River Plain	1-1.00	4	-4.9	17N/1W-2P1 18.8	16N/1W-22Q1 3.6
Butte Valley	1-3.00	3	-1.3	46N/2W-25R1 24.8	47N/2W-21D1 4.1
Shasta Valley	1-4.00	6	-1.0	44N/5W-34H1 29.2	43N/6W-22A1 3.2
Scott River Valley	1-5.00	5	-3.1	44N/9W-28P1 22.4	42N/9W-2N1 3.4
Mad River Valley	1-8.00	2	-2.5	6N/1E-29P1 11.7	6N/1E-6H1 2.1
Eureka Plain	1-9.00	1	<u>1/</u>	5N/1E-20Q1 Flowing	5N/1E-20Q1 Flowing
Eel River Valley	1-10.00	2	-2.3	3N/1W-34J1 33.5	3N/2W-26R1 2.0
Round Valley	1-11.00	4	-5.6	22N/12W-18N1 24.8	23N/12W-31N1 0.0
Laytonville Valley	1-12.00	2	+0.2	21N/15W-11R3 17.6	21N/15W-24A1 0.8
Little Lake Valley	1-13.00	3	-0.4	18N/13W-18E1 27.9	18N/13W-8L1 2.1
Potter Valley	1-14.00	3	-1.4	17N/11W-29P1 21.6	17N/11W-18J1 0.4
Ukiah Valley	1-15.00	2	-0.9	15N/12W-8L1 28.5	15N/12W-21M1 1.5
Sanel Valley	1-16.00	3	0.0	13N/11W-19P1 13.1	13N/11W-20G1 5.8
Alexander Valley	1-17.00	6	-0.2	10N/9W-18B1 19.4	10N/9W-26L2 2.1
Santa Rosa Valley	1-18.00				
Santa Rosa Area	1-18.01	9	-2.8	7N/9W-35D2 30.9	8N/9W-36N1 5.5
Healdsburg Area	1-18.02	2	-0.1	8N/9W-22L1 25.5	8N/9W-3P1 9.7
Lower Russian River Valley	1-98.00	1	-1.4	7N/10W-6N1 25.2	7N/11W-16M1 10.0

1/ Well 5N/1E-20Q1 was not measured because it was flowing. Most wells in the Eureka Plain area are not flowing.

TABLE 2

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE NORTH COASTAL REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : : number :	: Measuring agency	: Number of wells measured		
			: Monthly :	: Fall : 1958	: Spring : 1959
Smith River Plain	1-1.00	U. S. Geological Survey U. S. Bureau of Reclamation	6	8	9
Butte Valley	1-3.00	U. S. Geological Survey U. S. Bureau of Reclamation	5	23	27
Shasta Valley	1-4.00	U. S. Geological Survey Department of Water Resources	6	5	5
Scott River Valley	1-5.00	U. S. Geological Survey Department of Water Resources	5	3	5
Mad River Valley	1-8.00	U. S. Geological Survey U. S. Bureau of Reclamation	2	8	8
Eureka Plain	1-9.00	U. S. Bureau of Reclamation		1	1
Eel River Valley	1-10.00	U. S. Geological Survey U. S. Bureau of Reclamation	3	16	15
Round Valley	1-11.00	U. S. Geological Survey U. S. Bureau of Reclamation	3	36	37
Laytonville Valley	1-12.00	U. S. Geological Survey Department of Water Resources	3	13	13
Little Lake Valley	1-13.00	U. S. Geological Survey Department of Water Resources	4	9	12
Potter Valley	1-14.00	U. S. Geological Survey	3		
Ukiah Valley	1-15.00	U. S. Geological Survey	3		
Sanel Valley	1-16.00	U. S. Geological Survey	3		
Alexander Valley	1-17.00	U. S. Geological Survey Department of Water Resources	6	1	1
Santa Rosa Valley	1-18.00				
Santa Rosa Area	1-18.01	U. S. Geological Survey Department of Water Resources	4	15	15
Healdsburg Area	1-18.02	U. S. Geological Survey	5		
Lower Russian River Valley	1-98.00	U. S. Geological Survey Department of Water Resources	3	1	1

and the compacted marine formation. Domestic water supplies in the Smith River Plain are derived largely from the compacted marine formation. Most of the ground water for irrigation is obtained from wells that penetrate the flood-plain deposits, although a few irrigation wells obtain water from river-terrace deposits. Average yield of wells ranges from about 20 gallons per minute (gpm) in the compacted marine formation to 340 gpm for wells in the stream-channel and flood-plain deposits.

Wells are shallow; few exceed a total depth of 35 feet. Depths to water commonly range from 5 to 25 feet below the land surface. Changes in water levels from spring of 1958 to spring of 1959 in 4 selected wells ranged from a decline of 2.4 feet to a decline of 8.5 feet, with an average decline of 4.9 feet. In wells 18N/1W-26P1 and 17N/1W-15M2, both in river-terrace deposits, the average decline was 5.6 feet. In well 16N/1W-17K1, which is less than a mile north of Crescent City and in the marine formation, there was a decline of 5.7 feet. The hydrograph of this well is shown on Plate 2.

Butte Valley

Butte Valley (1-3.00) lies between the eastern part of the Cascade Range and the western part of the Modoc Plateau in northern Siskiyou County. It is a large structural depression nearly surrounded by the abrupt slopes of the adjoining mountains. The valley floor is a featureless plain covering more than 130 square miles and lying at an altitude of approximately 4,200 feet. Several flat-floored grabens, or small valleys, including Sams Neck and Pleasant Valley, project northward beyond the main valley depression. Meiss Lake, in the west-central part

of the valley, is the remnant of a lake that occupied much of the depression during Pleistocene time. The valley has no surface outlet, but ground water moves northeastward out of the valley, beneath ridges of volcanic rocks, into an area that drains into the Klamath River.

The principal ground water body tapped by wells is contained in lake deposits and in the Butte Valley basalt; lesser amounts of ground water occur in the alluvium. The volcanic rocks of the High Cascades, probably containing confined water, lie at considerable depths beneath Butte Valley. In the Cascade Range they serve as a large intake area and ground water storage reservoir.

The quality of most of the ground water in the valley is satisfactory for most uses, but in the east-central part some wells yield waters containing high percentages of sodium, probably derived from buried playa deposits.

In three selected wells in the valley, water levels in the spring of 1959 were lower than they were in the spring of 1958. The average decline in wells 47N/1W-14B1 and 47N/1W-27B1, in lake deposits in the northern part of the valley, was 1.1 feet. In well 46N/2W-25R1, in the alluvium in the southwestern part of the valley, the decline was 1.7 feet.

Available records of water level fluctuations since 1951 show the water levels generally recover each winter. Plate 2 includes a hydrograph for well 45N/2W-3A1.

Shasta Valley

Shasta Valley (1-4.00) is located in the central part of Siskiyou County and lies between the Klamath Mountains on the west and the Cascade Range on the east. The valley is a nearly oval basin having a north-south length of about 30 miles, a maximum width of about 15 miles, and an area of about 250 square miles.

Ground water in the valley is contained in a heterogeneous assemblage of rocks and deposits comprising younger and older alluviums, glacial deposits, the Plutos Cave basalt and other volcanic rocks of the High Cascades, the volcanic rocks of the Western Cascades, and a group of older geologic units in which ground water has not been developed to a significant degree. The Plutos Cave basalt occupies an area of more than 50 square miles in the southeastern part of the valley. It constitutes the most prolific aquifer in the valley, and yields abundant water to wells and springs for irrigation and domestic purposes.

Although a great variety of rock types exists in Shasta Valley, the ground water body appears to be hydrologically continuous within all or most of the geologic units named. Water table conditions are believed to exist throughout most of the valley, and confined water occurs only locally. Some confined water exists in the volcanic rocks of the Western Cascades.

Most of the wells in the valley are dug wells of small capacity which supply water for domestic and stock purposes, although there are irrigation wells of large capacity, particularly in the area underlain by the Plutos Cave basalt.

Depths to water throughout the valley range from about 300 feet in the southern part of the exposures of the Plutos Cave basalt to zero in the trough of the valley where the streams receive water by seepage from ground water.

Past records indicate that, in general, the water levels decline 5 to 10 feet during the summer and fall of each year and that in most instances a complete recovery occurs during the following winter and spring. The hydrograph for well 44N/5W-34H1, less than two miles north of Big Springs, shows that the water level in the spring of 1959 was one foot higher than it was in the spring of 1958 (see Plate 2). To date there has been no indication of a downward trend of water levels in the valley.

Scott River Valley

Scott River Valley (1-5.00) lies in the eastern part of the Klamath Mountains in the south-central part of Siskiyou County. It has a north-south length of 22 miles and a maximum width of about 10 miles. The main valley area, which includes Quartz and Oro Fino Valleys, is drained by the Scott River, a tributary of the Klamath River.

The valley is underlain by a valley fill comprising older and younger alluviums and alluvial-fan deposits. Nearly all of the ground water pumped from wells is derived from these alluvial deposits. The most permeable deposits underlie the flood plain of the Scott River. The major irrigation wells in the area, which yield from 1,200 to 2,500 gpm, are on the Scott River flood plain between Etna and Fort Jones.

The water in the coarse-grained flood-plain sediments generally is unconfined. Water in the finer-grained alluvial-fan deposits is semi-confined to confined, and near the toes of the fans wells produce small artesian flows.

Most of the wells in Scott River Valley are dug wells used for domestic and stock supplies. Depths to water below the land surface range from zero (some wells are flowing) to about 35 feet. The deepest water levels are in the fan-head areas along the western mountain front; the shallowest are in the areas of ground water discharge along the lower margins of the fans and also near the Scott River, where the channel is only a few feet below the surface of the flood plain.

Presently available records of water levels in wells in Scott River Valley cover only the periods 1952-1954 and 1958-1959. For these periods the records indicate that the average decline in water levels from spring to fall is about 4 feet for the valley as a whole, and that there is a complete recovery of the levels by the following spring. On Plate 2 a hydrograph is shown for well 43N/9W-24F1 on the eastern side of the valley and about 3 miles south of Fort Jones. In this well the decline in water level from spring to fall of 1954, was about 5 feet. The level in the spring of 1959 was about 7.6 feet lower than the level in the spring of 1958. Average water levels in 5 selected wells declined 3.1 feet from the spring of 1958 to the spring of 1959.

Eureka Plain, Mad and Eel River Valleys

In the vicinity of Eureka in western Humboldt County, there are three contiguous ground water basins. These are, north to south, the Mad

River Valley (1-8.00), the Eureka Plain (1-9.00), and the Eel River Valley (1-10.00). Because of hydrologic similarities, these basins are discussed as an entity.

The Mad River flows through a valley about 1 mile wide and 4 miles long near the town of Blue Lake. This small valley is separated from the main coastal valley by a ridge of consolidated rocks through which the river flows in a relatively narrow canyon.

Between the valleys of the Mad and Eel Rivers and east of Humboldt Bay lies the Eureka Plain, a somewhat dissected and locally warped marine terrace flanked by low hills.

The Eel River Valley is about 8 miles wide at the coast and extends inland nearly 12 miles to the confluence of the Eel and Van Duzen Rivers.

Fresh ground water in these areas occurs in most of the unconsolidated nonmarine deposits--the Carlotta, Hookton, and Rohnerville formations--and in the terrace deposits, alluvium, and dune sand. The coarse grained parts of the alluvium, dune sand, and the topographically lower terrace deposits contain essentially unconfined water at depths generally less than 30 feet below the land surface. Confined water is contained in the Carlotta, Hookton, and Rohnerville formations. Local bodies of perched water are contained in some of the higher terrace deposits. The principal water bodies in the area are in the alluvium underlying the flood plains of the major streams and adjacent low-terrace deposits.

Water levels in the spring of 1959 were lower than they were in the spring of 1958 in two selected wells in the Eel River Valley,

three selected wells in the Mad River Valley, and one selected well in Eureka Plain. In the Eel River Valley the decline in water level averaged 2.3 feet. In the Mad River Valley the decline ranged from 2.3 to 2.6 feet while a rise of 3.7 feet was reported for well 6N/1E-19Q1. In Eureka Plain the one selected well was flowing and no measurement was made in the spring of 1959. The hydrograph for well 2N/1W-8B1 in Eel River Valley is shown on Plate 2. This well, about 3 miles east of Ferndale, is in the alluvium and is in the upstream area of steepest slope of the ground water gradient. Each spring through the period 1952-1955, the water level recovered to essentially the same elevation; from 1955 to 1956 it rose about 8 feet; from 1956 to 1957 it dropped back about 6 feet to the prevailing spring level prior to 1956; from 1957 to 1958 it rose about 4 feet and from 1958 to 1959 it declined 3.2 feet.

Round, Laytonville, and Little Lake Valleys

The upper part of the Eel River drainage area in Mendocino County contains three small ground water basins: Round (1-11.00), Laytonville (1-12.00), and Little Lake Valleys (1-13.00). For convenience and because of hydrologic similarities, these basins are discussed as a unit.

Round Valley is an oval basin approximately 6 miles long in a north-south direction and 4 miles wide. It is drained to the southeast by Mill Creek, a tributary to the Middle Fork Eel River.

Laytonville Valley lies principally along Tenmile Creek, an upper tributary of the South Fork Eel River, and is 15 to 20 miles inland from the coast. The valley area, which trends slightly west of north, is approximately 8 mile long and 3 miles wide.

Little Lake Valley, the southernmost ground water basin in the Eel River drainage area, is an irregular oval basin approximately 7 miles long and 2 miles wide. It is drained to the north by Outlet Creek, a tributary of the upper Eel River.

All three ground water basins are underlain by Recent alluvium which contains the major portion of the usable ground water. In Round and Little Lake Valleys the alluvium is underlain and locally flanked by continental sediments of probably late Tertiary and Quaternary age. In Laytonville Valley the alluvium is underlain by terrace deposits of Pleistocene age. All these older deposits are less permeable than the alluvium and produce relatively little water.

In Round Valley, the ground water is unconfined in the fan-head areas around the edges of the valley but is confined over a large area in the central part of the valley, except for local, semiperched zones. The highest artesian heads are near the center of the valley.

In Laytonville Valley, water table conditions exist in the relatively thin terrace deposits in the western part of the valley and in the upper part of the alluvium, but confined to semiconfined conditions occur in the lower part of the alluvium and in the underlying terrace deposits in the eastern part of the valley.

In Little Lake Valley, ground water generally is confined; only shallow water bodies in the alluvium are unconfined.

Fluctuations of water levels in wells in all three valleys reflect chiefly the effects of the natural discharge-recharge cycle; the effect of pumping from wells is small under the present regimen. There

was practically no change in ground water levels from the spring of 1958 to the spring of 1959 in two selected wells in Laytonville Valley and in three selected wells in Little Lake Valley. In Round Valley average ground water levels in 4 selected wells declined almost 6 feet during this same period. The hydrograph of well 22N/12W-19M1, about 3 miles south of Covelo in Round Valley, is shown on Plate 2. The water level fluctuations in this well are typical of fluctuations in wells in the alluvium in the fan-head areas around the edges of the valley. The water level in well 22N/12W-19M1 in the spring of 1958 was essentially the same as it was in the spring of 1952 but declined more than 8 feet from the spring of 1958 to the spring of 1959.

Potter Valley

Potter Valley (1-14.00), in the east central portion of Mendocino County, is a narrow structural basin formed during the folding and faulting of the Coast Ranges. The valley has an average length of 7 miles and an average width of about 2 miles. The relatively flat, alluviated floor of the valley occupies an area of about 12 square miles. The East Fork Russian River drains the valley to the south; its flow is augmented by diversion from the Eel River, through the Potter Valley powerhouse, at the north end of the valley.

Recent alluvium provides the major sources of ground water. A continuous aquifer about 30 feet thick, composed of gravels interspersed between clay lenses, underlies much of the northern half of the valley. The aquifer is partially confined near the center of the valley, where artesian wells have been developed. Elsewhere in the valley the alluvium

is composed almost entirely of silt and clay with occasional lenses of sand and gravel. Ground water yield, although small, is usually sufficient for domestic purposes. Around the edges of the valley a very minor amount of ground water is produced from joints and fractures in the rocks of the Franciscan group, which underlie the entire area.

Water levels vary from a depth of 22 feet below land surface, near the valley margins, to flowing wells in the center of the valley.

Individual wells furnish the domestic water supply in the valley. Some irrigation water also is obtained from wells, but most of the irrigated lands receive surface water through the Potter Valley Irrigation District canal system diverting from Potter Valley powerhouse trailrace.

Records of water levels in wells in Potter Valley are available for the periods 1951-1955 and 1958-1959. For selected well 17N/11W-29P1, about 2 miles south of the community of Potter Valley, the records show seasonal declines in the water level from spring to fall of 1 to 4 feet. There was no significant net change in the level from the spring of 1952 to the spring of 1958 but a decline of approximately 3 feet occurred from the spring of 1958 to the spring of 1959.

Ukiah Valley

Ukiah Valley (1-15.00) is the largest alluvial area in Mendocino County. It is about 22 miles in length, attains a maximum width of about 5 miles, and occupies an area of about 65 square miles in the southeastern portion of the county.

Major sources of ground water are Recent alluvium, stream channel and terrace deposits. Semiconsolidated sediments provide a secondary source.

The underlying sedimentary and metamorphic rocks yield a minor quantity of water, sometimes highly mineralized, to several springs in the area.

The yield of individual wells varies considerably. In the Recent alluvium it ranges from 50 to 200 gpm, and considerably higher yields are obtained from stream channel deposits along the major streams. Yield in the terrace deposits ranges from negligible quantities to as much as 15 gpm.

Domestic and industrial water supplies in Ukiah Valley are obtained entirely from ground water. Irrigation water is also obtained to some extent from wells. In general, most of the irrigated land adjacent to the Russian River is supplied by direct diversion from the river or by shallow wells which derive their supply from underflow.

The quality of ground water in Ukiah Valley is extremely variable. Adjacent to the river it is of excellent quality and suitable for present uses. However, wells and springs containing highly mineralized waters are found along the edges of the valley.

Available records of water levels in wells in Ukiah Valley cover the periods 1951-1955 and 1958-1959. These records indicate that, in general, the levels decline 10 to 20 feet during the summer and fall of each year and that in most instances a complete recovery occurs during the following winter and spring. The hydrograph for well 15N/12W-8L1, about 1 mile north of Ukiah, shows that the water level in the spring of 1955 was essentially the same as it was in the spring of 1951 and that in the spring of 1958 and the spring of 1959 the level was about 7 feet and 5 feet, respectively, higher than it was in the spring of 1955 (see Plate 2).

Sanel Valley

Sanel Valley (1-16.00) is an irregularly shaped area in the southeastern portion of Mendocino County. The alluviated portions of the valley occupy an area of approximately 12 square miles.

The deposits of major importance as a source of ground water are the Recent alluvium, stream channel and terrace deposits. Recent alluvium consists of loose, unconsolidated gravel, sand, silt, and clay laid down principally as stream channel and flood plain deposits. The terrace deposits are made up of gravel, sand, silt, and clay laid down as fan deposits.

Ground water in Sanel Valley occurs in interconnected lenses of sand and gravel throughout the valley and in the coarse stream channel deposits adjacent to the Russian River. Yields of wells range from as high as 750 to 1,250 gallons per minute (gpm) in the stream channel deposits adjacent to the river to as low as 5 to 50 gpm in the terrace deposits.

Depths to ground water vary, being coincident with the ground surface near the river and as much as 25 feet in the higher portions of the valley. Little correlation is possible between water levels in different wells because of the lenticularity of the formations and consequent localized pressure effects, even though the more permeable materials have a hydraulic continuity.

Domestic water supplies in the valley are derived from ground water, either from individual wells or those of a water company which

supplies a portion of the community of Hopland. Except for lands adjacent to the Russian River, irrigation water is almost exclusively supplied from ground water.

In general, ground water underlying the valley is of good mineral quality suitable for most uses. However, ground waters containing boron occur in some local areas.

Records of water levels in wells in Sanel Valley are available for the periods 1953-1955 and 1958-1959. The hydrograph for well 13N/11W-18E1, about 1 mile north of Hopland, shows that the water level in the spring of 1959 was about 1 foot higher than it was in the spring of 1954.

Alexander Valley

Alexander Valley (1-17.00), in Sonoma County, is another of the series of geologically similar valleys situated along the course of the Russian River. It is about 18 miles long, including the 15-square mile area in the upper portion around Cloverdale and the 20-square mile area of Alexander Valley proper. The valley is bounded by consolidated rocks of the Jurassic and Cretaceous periods. Topographically, the part of the valley floor occupied by Recent alluvium varies from flat to gently rolling except for local trenching of the Russian River. Water-bearing Quaternary terrace deposits are found up to 200 feet and more above stream bed. Interbedded volcanics and semiconsolidated terrestrial sediments of the Pliocene Sonoma group, which are partially water-bearing, underlie the alluvium and terrace deposits south of Geyserville and enclose the southeast end of the valley.

The water-bearing units include Quaternary alluvium, terrace deposits, and the terrestrial sediments of the Sonoma group. A wide variation in thickness of the water-bearing section of sediments which may be penetrated by wells has been noted in various parts of the valley. Withdrawal capacity of individual wells varies from 10 to more than 450 gpm. Domestic water supplies are derived from ground water, and to a limited extent, for irrigation. Depths to ground water vary from about 4 to 35 feet. Both water table and confined conditions occur in the principal ground water bodies of the valley, but the conditions can be distinguished only locally.

Records of water levels in wells in Alexander Valley are available for the periods 1950-1955 and 1958-1959. These monthly records for the six wells, dispersed throughout the valley, show an average seasonal decline in water level, from spring to fall, ranging from about 2 feet in well 10N/9W-33C1 to 16 feet in well 11N/10W-19F2. However, in nearly every instance a complete recovery occurs during the following winter and spring.

Santa Rosa Valley

The Santa Rosa Valley (1-18.00) in central Sonoma County is considered, in this report, as comprising the Santa Rosa Area and the Healdsburg Area. The Santa Rosa Area contains about 90 square miles of plains. It is connected on the northwest to the Healdsburg Area by a narrow gap in the hills about 3 miles southeast of Healdsburg.

Hydrologic interconnection exists between the Santa Rosa Area and the Healdsburg basin in the Russian River flood plain, between Santa Rosa Valley basin, Bennett Valley and Rincon Valley basins, between Rincon and Kenwood Valley basins, and between Kenwood Valley basin and the Glen Ellen basin. The principal ground water body underlying the main Santa Rosa Valley is contained in the unconsolidated deposits consisting of the younger and older alluvium and the Glen Ellen and Merced formations. In Bennett, Rincon, and Kenwood Valleys, the principal ground water body is in the younger and older alluvium in the Glen Ellen formation, and locally in the Sonoma volcanics. The younger alluvium contains the principal ground water body in the Healdsburg Area of the Russian River Valley. Both water table and confined conditions occur in the ground water bodies, but the conditions can be distinguished only locally. Water levels in deeper wells commonly are lower than the levels in shallow wells during summer and fall, but the differences generally level off in the spring. In the Glen Ellen formation east of the main Santa Rosa Valley and in the Sonoma volcanics, confined conditions are common.

Ground water in Santa Rosa Valley generally is of good quality for most uses. Water in certain localized areas has a high boron content.

Water levels in the spring of 1959 were lower than they were in the spring of 1958 in ten selected wells widely dispersed through the valley. The decline in level ranged from 0.3 foot in well 9N/9W-28N1, about one mile south of Healdsburg, to 6 feet in well 7N/8W-31C1 at Llano.

The average decline was 2.3 feet. The hydrograph of well 6N/8W-15J1 is shown on Plate 2. The water level in this well in the spring of 1959 was 1 foot lower than in the spring of 1958 and 5 feet lower than the spring of 1942 and 1950.

Lower Russian River Valley

The Lower Russian River Valley (1-98.00) lies along the Russian River between Rio Nido and the Pacific Ocean in Sonoma County. The valley extends to the coast by the Russian River cutting through the consolidated rocks of the northern Coast Ranges. Bedrock, into which the valley was cut, consists of consolidated sandstone, shale, and other rocks of Jurassic and Cretaceous age.

Alluvial and terrace deposits of Quaternary age are of major importance as a source of water in the Lower Russian River Valley. The Recent alluvium consists of loose, unconsolidated gravel, sand, silt, and clay, interbedded and intermixed, laid down principally as stream channel and flood plain deposits. The terrace deposits are similar, but were laid down when the bed of the Russian River was at a higher elevation. The ground water occurs in an almost continuous body, in the coarse stream channel deposits and interconnected lenses of sand and gravel, under the valley flats and terraces.

Depths to ground water vary, being coincident with the ground surface near the river and 25 feet or more under the terraces. Water levels in selected well number 7N/11W-14E1 in Duncans Mills declined 1.4 feet from the spring of 1958 to the spring of 1959.

San Francisco Bay Region

The San Francisco Bay Region includes all of the basins which drain into San Francisco, San Pablo, and Suisun Bays below Antioch and some basins that drain directly into the Pacific Ocean. It includes parts of Marin, Sonoma, Napa, Santa Clara, Contra Costa, Alameda, San Mateo, and Solano Counties, and all of San Francisco County.

Of 11 ground water basins or units in this region for which data are given herein, water level in seven were lower in the spring of 1959 than in the spring of 1958. The average decline in water level ranged from 1 foot in the upper aquifer to 13 feet in the lower aquifer of South Alameda County. Average rises in water levels ranged from 1 foot in North Santa Clara County to 8.6 feet in Livermore Valley.

Water level records for selected wells in the San Francisco Bay Region are given in Appendix B. The average changes in water levels from 1958 to 1959 in basins and units of the region are given in Table 3. A summary of ground water level data collected from July 1, 1958 to June 30, 1959 is given in Table 4. The fluctuations of water levels during the period of record at a few wells in the region are shown by the hydrographs on Plate 3, "Fluctuation of Water Level in Wells San Francisco Bay Region".

Petaluma Valley

Petaluma Valley (2-1.00) is one of several small valleys immediately north of San Francisco Bay. It occupies a northwest trending structural depression in the Coast Range. The valley is underlain by

TABLE 3
AVERAGE CHANGE IN GROUND WATER LEVELS IN
BASINS AND UNITS IN SAN FRANCISCO BAY REGION
SPRING 1958 TO SPRING 1959

Ground water basin or unit		: Number of	: Average	: Location and recorded maximum	
		: wells	: change in	: and minimum depth to water in	
		: considered	: ground water	: the spring of 1959,	
		: in	: level 1958	: in feet	
		: analysis	: to 1959,		
Name	: Number	:	: in feet	: Maximum	: Minimum
Petaluma Valley	2-1.00	1	0.0	5N/7W-20B2 56.1	3N/6W-1Q1 0.8
Napa-Sonoma Valley	2-2.00				
Napa Valley	2-2.01	6	-1.2	6N/4W-17A1 13.8	7N/5W-23D2 Flowing
Sonoma Valley	2-2.02	5	-4.2	5N/6W-14G1 55.4	5N/5W-8Q1 8.0
Suisun-Fairfield Valley	2-3.00	1/	+0.9	5N/2W-29R1 44.4	5N/1W-28P1 5.8
Ygnacio Valley	2-6.00	3	-1.9	1N/2W-11N1 12.5	2N/2W-27R1 3.5
Santa Clara Valley	2-9.00				
South Alameda County	2-9.01				
Upper Aquifer		7	-0.7	4S/1W-29C4 79.9	3S/3W-24Q2 6.0
Lower Aquifer		6	-13.2	5S/1W-2C1 112.5	4S/2W-35R2 45.9
North Santa Clara County	2-9.02	1/	+1.0	7S/1E-1K1 221.9	8S/1E-21D1 6.4
Livermore Valley	2-10.00	5	+8.6	3S/2E-2R1 107.0	2S/2E-25N1 10.9
Half Moon Bay Terrace	2-22.00	5	-4.4	6S/5W-8B1 62.4	5S/5W-18P1 5.1
San Gregorio Valley	2-24.00	3	-9.0	7S/5W-15C1 17.7	7S/5W-15C1 4.9
Pescadero Valley	2-26.00	2	-4.3	8S/5W-11P1 10.3	8S/5W-9H1 3.3

1/ Averages were determined by planimetry of ground water contour maps. The remaining averages are numerical computations of index well measurements.

TABLE 4

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN SAN FRANCISCO BAY REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : number	: Measuring agency	: Number of wells measured		
			: Monthly	: Fall 1958	: Spring 1959
Petaluma Valley	2-1.00	U. S. Geological Survey Department of Water Resources	1	5	5
Napa-Sonoma Valley	2-2.00				
Napa Valley	2-2.01	U. S. Geological Survey Department of Water Resources	5	9	9
Sonoma Valley	2-2.02	U. S. Geological Survey Department of Water Resources	3	2	2
Suisun-Fairfield Valley	2-3.00	U. S. Geological Survey Department of Water Resources	1	26	26
Ygnacio Valley	2-6.00	Department of Water Resources	2		9
Santa Clara Valley	2-9.00				
South Alameda County	2-9.01	Alameda County Flood Control and Water Conservation District Alameda County Water District Department of Water Resources	31	83 32 907	66 32 640
North Santa Clara County	2-9.02	Santa Clara Valley Water Conservation District U. S. Geological Survey	258 5		
Livermore Valley	2-10.00	Alameda County Flood Control and Water Conservation District			42
Half Moon Bay Terrace	2-22.00	Department of Water Resources	2	11	11
San Gregorio Valley	2-24.00	Department of Water Resources	2	5	5
Pescadero Valley	2-26.00	Department of Water Resources	2	7	7

unconsolidated marine and continental sediments and volcanic rocks of Tertiary and Quaternary age. This largely water-bearing material constitutes a relatively deep ground water basin. The valley contains about 45 square miles of alluvial plains, of which about 10 square miles is unreclaimed tidal marsh. Ground water is the principal source of water supply for agricultural development in the area.

Both free water table and confined ground water conditions occur in the principal ground water bodies of the valley, but the conditions can be distinguished only locally. Pressure levels in deeper wells commonly are lower than the levels in shallow wells during summer and fall, but the differences generally level off in the spring. Seasonal fluctuations range from less than 1 foot, near tidewater in the southern part of the valley, to about 20 feet in the northern part.

Investigations in 1950 and 1951 indicated that ground water in the principal ground water body of upper Petaluma Valley is of good quality that local encroachment by brackish water from tidal sloughs occurs in the lower part of the valley as far north as Petaluma, and that connate water, of poor quality, occurs locally in the Petaluma formation.

In 1950, total pumpage from some 1,500 active wells was estimated to be about 2,000 acre-feet. More than 60 percent of the pumpage was for irrigation, public supply, and industrial uses; the remainder was for domestic, stock, and other uses. A downward trend of the water level since 1949 in wells 5N/7W-20B1 and 5N/7W-20B2 north of Petaluma appears to indicate local overdevelopment creating a condition of localized lowering of ground water levels. This condition is shown in Plate 3.

Napa-Sonoma Valley

Napa and Sonoma Valleys (2-2.01 and 2-2.02) are adjacent alluvial valleys occupying parallel structural depressions in the Northern Coast Range physiographic province which drain south into San Pablo Bay. The valleys are surrounded and underlain by unconsolidated marine and continental sediments and volcanic rocks of Pliocene and Pleistocene age which are largely water-bearing. Together they contain relatively extensive ground water bodies. Napa Valley, the eastern valley, is the larger with a valley floor area of about 85 square miles. Sonoma Valley has a valley floor area of 45 square miles including about 10 square miles of unreclaimed tidal marsh.

Investigations conducted from 1949 to 1952 indicated that the quality of the water in most wells in the valleys is satisfactory for irrigation and domestic uses. Locally, at the southern end of the valleys, some degradation of the native waters is caused by movement of brackish water into areas of concentrated pumping. Water from wells at a few places has excessive concentrations of boron.

The water levels in wells in the central part of the valleys range from a few feet above the land surface to about 50 feet below, with an average depth of about 25 feet. As shown by the hydrographs for wells 6N/4W-17A1 and 5N/5W-28N1 in Napa Valley and Sonoma Valley, respectively, (see Plate 3) seasonal fluctuations in water level range up to about 15 feet, but there is no indication of a downward trend in the levels over the period of record. Annual fluctuations, for example spring to spring, seem to be related largely to rainfall. Water levels from spring of 1958

to spring of 1959 in 6 selected wells in Napa Valley declined from less than 1 foot to approximately 5 feet; the average decline was 1.2 feet. In 5 selected wells in Sonoma Valley, from 1958 to 1959 levels declined in 4 of the wells ranging from 3.4 feet to 7.5 feet. The fifth well had a rise of 2.1 feet.

Suisun-Fairfield Valley

Suisun-Fairfield Valley (2-3.00) consists of about 30 square miles of low-lying plains in the notch in the southeastern part of the northern Coast Ranges, through which the waters of the Central Valley reach San Francisco Bay. It is drained by Suisun and Ledge wood Creeks which flow generally southeastward into the tidal sloughs south of Fairfield. The valley is bounded on the north and west by foothills of the Coast Ranges, on the south by the salt marshes adjacent to Suisun Bay, and on the east by low ridges of consolidated rock which crop out southeast from Vacaville to the Montezuma Hills.

The water-bearing materials underlying the valley are comprised of younger alluvium older alluvium, and the Sonoma volcanics. The older alluvium probably supplies most of the water pumped from wells, although the average yield of wells drilled into this formation is only about 200 gallons per minute (gpm).

A heavy concentration of pumping about two miles southwest of Fairfield has created a pumping depression which has reversed the bayward hydraulic gradient and stopped the subsurface discharge to the tidal marshes. Except for this pumping depression, long-term records of water

levels in wells in the valley do not indicate any well-defined downward trend. Shown on Plate 3 is the hydrograph for well 4N/2W-6A1, which is on the western edge of the pumping depression. The water level in this well in the spring of 1959 was essentially the same as the level in the spring of 1920 and 1950. In contrast, records for wells within the cone of pumping depression indicate that the decline in water level within the cone may have been as much as 40 to 50 feet from 1938 to 1951, followed by a 10-foot recovery in 1952. Changes in water level from the spring of 1958 to the spring of 1959 in 6 selected wells in the valley ranged from a rise of 1.6 feet in well 4N/2W-6A1 to a decline of 3.3 feet in well 4N/3W-1D1. The average decline was 0.5 foot.

Ygnacio Valley

Ygnacio Valley (2-6.00) and the adjacent Clayton Valley occupy structural depressions between the Berkeley Hills and the Mt. Diablo Range in Contra Costa County. The alluviated areas of both valleys contain 20 and 17 square miles, respectively. Both valleys are underlain by thick deposits of Recent and older alluvium which covers faulted and folded complex of consolidated Cretaceous and Tertiary rocks.

The floors of the valleys are alluvial plains which slope gently to the northwest and merge in the vicinity of Concord. Although the valleys are apparently merged at the surface, there are two distinct ground water basins, separated hydrologically by a ground water barrier formed by the Concord Fault.

All of the available ground water occurs in the Recent alluvium and the older Pleistocene valley fill (Pittsburg formation). The combined thickness of these exceeds 700 feet. Artesian conditions were once generally encountered in the deeper aquifers. However, the differential originally between confined and free water levels has largely been equalized by the free movement of ground water through the large number of gravel-packed wells which penetrate both free and confined ground water aquifers.

The average withdrawal capacity of wells is about 200 gpm. Depths to water in wells varied from 6 to 60 feet in the 1900's. The available evidence indicates that a fair balance existed between recharge and withdrawal, with water levels holding at about these depths until 1927. Water levels then began to drop from 5 to 10 feet per year and continued to drop until the completion of the Contra Costa Canal. As a consequence, the normal hydraulic gradient toward Suisun Bay was reversed. With the importation of water through the Contra Costa Canal, ground water pumpage has been greatly reduced, and the hydraulic gradient is again toward Suisun Bay.

Changes in water levels from the spring of 1958 to the spring of 1959 in Ygnacio Valley ranged from a decline of 0.3 foot in well 1N/2W-11N1 to a decline of 2.8 feet in well 2N/2W-27R1. The average decline in 3 selected wells was 1.9 feet.

Santa Clara Valley, South Alameda County

The South Alameda County area (2-9.01) or East Bay area, of Santa Clara Valley comprises about 130 square miles of alluvial land lying

between the base of the western slope of the Diablo Range and San Francisco Bay extending from San Leandro Creek on the north to the Alameda-Santa Clara County line on the south.

Two or more separate aquifers exist in most parts of the area. Each of these aquifers consists of a series of permeable gravel beds, generally irregular and lenticular, and some sands. In the portion of the area north of Alvarado, ground water is derived from the San Leandro and San Lorenzo cones. In the San Leandro cone, most pumping is from the upper aquifer, which comprises all sediments to a depth of about 200 feet. In the San Lorenzo cone, the upper 200 feet of sediments is also considered to be the upper aquifer and underlying water-bearing materials, extending to a depth of about 1,000 feet, comprise the lower aquifers. Most irrigation, industrial, and municipal wells derive their water from the lower aquifers.

In the area between Alvarado and the Alameda-Santa Clara County line, ground water is derived from sediments of the Niles cone. The upper aquifer in this area has been degraded by salt-water intrusion to such an extent that the major portion of the present water supply is obtained from the lower aquifers which are found in the depth interval 200 to 600 feet. Yield of wells drawing from upper and lower aquifers is highly variable. Limited data indicate that yields from the upper aquifer range from 100 to more than 1,000 gpm, and from the lower aquifers, from 250 to 1,800 gpm.

Although some water supplies are imported to the South Alameda County area of Santa Clara Valley, the greater portion of irrigation and

suburban water requirements is met by pumping from underlying ground waters. The northern portion of the area is largely developed for industrial, commercial, and urban purposes, while the central and southern portions are devoted to agriculture, mostly irrigated. Pumping draft on ground water resources of the area has increased to such an extent that ground water levels in the upper and lower aquifers remain perennially below sea level throughout a large portion of the area.

A serious water quality problem in the Niles cone area is caused by the intrusion of saline waters into the fresh-water aquifers adjacent to San Francisco Bay. Sea-water intrusion was first noted in this area in 1920 and at present the intrusion has extensively penetrated the upper aquifer. Some degradation near Centerville has occurred in the lower aquifers, apparently from downward movement of saline water from the upper aquifer.

Changes in the water level from the spring of 1958 to the spring of 1959 in 7 selected wells pumping from the upper aquifer ranged from a decline of 10.4 feet in well 4S/2W-2Q1 to a rise of 9 feet in well 4S/2W-2Q2. A hydrograph for well 4S/1W-29C4, about one-half mile east of Centerville, is shown on Plate 3. During the period of record for this well, from 1915 to 1959, the lowest observed water level was 55 feet below sea level in the fall of 1950, and the highest observed level since 1950 was just sea level in the spring of 1952. From the spring of 1950 to the spring of 1958 there was a net rise of 6 feet, and from the spring of 1958 to the spring of 1959 there was a decline of 9.5 feet.

In 6 selected wells pumping from the lower aquifer, the change in water level from the spring of 1958 to the spring of 1959 ranged from a decline of 26.5 feet in well 4S/2W-36K1 to a rise of 1.5 feet in well 4S/1W-18G1. The average change was a decline of 13.2 feet (see Table 3). As shown by the hydrograph for well 4S/2W-36K1 on Plate 3, the lowest observed water level from 1950 through 1958 in this well, about one-half mile northeast of Newark, was 80 feet below sea level in the fall of 1950; the highest observed level was 12 feet below sea level in the spring of 1952. From the spring of 1950 to the spring of 1958 there was a net rise of 19 feet, and from the spring of 1958 to the spring of 1959 there was a decline of 13.2 feet.

Santa Clara Valley, North Santa Clara County

The North Santa Clara County area (2-9.02) of Santa Clara Valley comprises that portion of the valley extending southeasterly from San Francisco Bay and the Alameda-Santa Clara County line. The southern boundary is the low topographic divide near Morgan Hill which divides the drainage between San Francisco Bay and the Pajaro River. The area is bounded on the west by the Santa Cruz mountains and on the east by the Diablo Range. It varies in width from about 14 miles in the northern portion to less than a mile at the narrows near Coyote. The divide near Morgan Hill is also the northern boundary of the South Santa Clara County area, treated in this report as a ground water unit of the Gilroy-Hollister Valley in the Central Coastal Region.

The water-bearing sediments of the Santa Clara Valley occupy the valley proper and some adjacent areas. The age of the water-bearing sediments is Plio-Pleistocene and upper Quaternary. The Plio-Pleistocene sediments supply water to deep wells in areas where the upper Quaternary sediments are thin, and to small domestic wells in the hills surrounding the valley. These sediments consist of flood plain deposits, alluvial fan deposits, and tideland or marine swamp deposits, of which the alluvial fan and tideland deposits form the largest part. The main aquifers in the upper Quaternary sediments are principally gravels. Water-yielding sands are also present, but wells in this area generally are not perforated in sand strata. The tideland deposits consist of fairly continuous blue clays, which cap the pressure zone of the area. The blue clays have their greatest thickness in the area around the southernmost portion of San Francisco Bay, thinning out toward Milpitas, San Jose, Sunnyvale, and Palo Alto.

The pressure zone includes an area extending from about 4 miles southeast of San Jose to San Francisco Bay on the north, and from near Palo Alto on the west to near Milpitas on the east. The free ground water, of forebay zone, lies upstream and adjacent to the pressure zone, and generally extends to the edge of the valley floor on the east and west and to the south boundary of the area near Morgan Hill. The pressure zone comprises about 78,000 acres and the forebay zone about 86,000 acres.

Ground water currently supplies nearly all of the irrigation, domestic, and industrial requirements in the area, and the pumping for irrigation constitutes about 75 percent of the total ground water withdrawal.

The heavy pumping draft in dry years has depressed water levels below sea level in the bayward portion of the pressure zone thereby creating a landward hydraulic gradient.

In limited areas of the eastern portion of the North Santa Clara County area, the ground water is of questionable quality for irrigation use; in the Penitencia Creek cone it contains relatively high concentrations of boron while in portions of the Silver and Dry Creek cone it has a high magnesium content. In the bayward portion of the area, the normal bayward slope of the hydraulic gradient in the pressure aquifer is reversed at times because of excessive lowering of ground water levels during the dry season. This has created a potential threat of sea-water intrusion and consequent degradation of the ground water.

Changes in the water level from the spring of 1958 to the spring of 1959 in 20 selected wells, widely dispersed in the North Santa Clara County area, ranged from a decline of 12 feet in well 7S/2W-4B1 near Loyola Corners to a rise of 41 feet in well 7S/1W-35C1 in Campbell. The average change in the valley was a rise of 1 foot. A hydrograph for well 7S/1E-31A2, which is in the forebay zone about a mile west of Guadalupe River and two and one-half miles east of Campbell, is shown on Plate 3. During the period of record for this well, from 1936 through 1958, the highest observed water level was 105 feet above sea level in April of 1943; the lowest observed level was 35 feet below sea level in July of 1950. From 1943 to 1950 there was, therefore, a net decline in water level of 140 feet. From the low of July 1950, there was a net rise in water level to the spring of 1958 of 61 feet, and from the spring of 1958 to the spring of 1959 there was a net rise of 11 feet.

The Santa Clara Valley Water Conservation District controls flows on numerous creeks in the area, and deliberately recharges the underlying ground water basin in the valley through percolation in stream channels, ditches, basins, abandoned gravel pits, and inverted wells. The district reports that 197,000 acre-feet was recharged to the ground water basin in 1958.

Livermore Valley

Livermore Valley (2-10.00), for the most part, lies in the eastern portion of Alameda County; a minor area extends into Contra Costa County. The valley is about 14 miles long in an east-west direction, varies from 3 to 6 miles in width, and comprises an area of about 65 square miles.

Livermore Valley is a structural basin developed in a syncline with an axis trending nearly east-west. The floor of the valley is covered by alluvial, lake, and swamp deposits of upper Pleistocene and Recent age. These deposits consist of gravel, sand, and clay, with an average thickness of about 350 feet, although a maximum thickness of nearly 700 feet is believed to be present in the Pleasanton area.

Free ground water exists generally throughout the valley. However, in the vicinity of Pleasanton a pressure area is formed by a least four separate layers of blue clay alternating with gravel beds. The average yield of irrigation wells in the Pleasanton area, where the greatest pumping occurs, is about 500 gpm.

Although pumping for irrigation constitutes the major portion of the total withdrawal, ground water also supplies nearly all of the domestic, urban, and industrial requirements in Livermore Valley.

Ground waters in central and southern portions of the valley are replenished from percolation of good quality flood waters and, in general, contain low concentrations of total dissolved solids and boron. In the northern and eastern portions of the valley, ground water contains higher concentrations of total dissolved solids and boron.

Water level changes from the spring of 1958 to the spring of 1959 in 5 selected wells in the valley ranged from a decline of 3.5 feet in well 3S/2E-2R1, about $1\frac{1}{2}$ miles northeast of Trevarno, to a rise of 21.7 feet in well 2S/1W-26C1, about 2 miles north of Dublin. The average change was a rise of 8.6 feet (see Table 3). In well 3S/1E-18G3 in the pressure area, about 1 mile northwest of Pleasanton, there was a net rise of 18.4 feet. A hydrograph is shown on Plate 3 for well 3S/1E-2E1, near U. S. Highway 50 and about 3 miles northeast of Pleasanton. In this well, the highest observed water level during the period 1948 through 1959 was 343 feet above sea level in the spring of 1959, and the lowest observed level was 330 feet above sea level in the fall of 1950. From the spring of 1958 to the spring of 1959 there was a net rise of 6 feet.

Half Moon Bay Terrace

Half Moon Bay Terrace (2-22.00) in San Mateo County comprises a series of dissected marine terraces which are bounded on the west by the Pacific Ocean and on the east by the rugged ridges of the southern Coast Range geomorphic province. The area extends from Moss Beach on the north to Martin's Beach on the south. The terraces vary in width from one-quarter mile to about a mile and a half.

Deposits of major importance as a source of ground water include semiconsolidated Pleistocene marine terraces and unconsolidated Recent alluvium. The marine terrace deposits are composed of clay, silt, sand, and locally, some well sorted gravel. Thickness of the terrace deposits ranges from a few inches to about 100 feet. Yield of ground water to wells pumping from the terrace deposits varies from less than 5 gpm to more than 60 gpm. Several minor alluviated valleys have been grouped with the Half Moon Bay terraces.

Changes in water level from the spring of 1958 to the spring of 1959 in 5 selected wells in the Half Moon Bay Terrace area ranged from a decline of 1.8 feet in well 6S/5W-8B1 to a decline of 8.3 feet in well 5S/5W-20L1. The average decline was 4.4 feet (see Table 3). The hydrograph, given on Plate 3, of well 5S/5W-29N1, about one-half mile west of the town of Half Moon Bay, shows that from spring of 1953 to spring of 1958 there was a net rise of 4 feet and from spring of 1958 to spring of 1959 a net decline of 4 feet.

San Gregorio and Pescadero Valley

San Gregorio (2-24.00) and Pescadero (2-26.00) Valleys in San Mateo County are two of the many minor alluviated stream valleys along the coastal margin of the southern Coast Range geomorphic province. The topography is typical of alluviated stream valleys with terraced flats on either side of the sinuous courses of the somewhat incised streams. The valleys broaden toward the mouth, where the streams empty into the Pacific Ocean.

The principal sources of ground water in these valleys are the unconsolidated clays, silts, sands, and some gravel in the Pleistocene and Recent terrace and alluvial deposits. In general these deposits are relatively thin; the average thickness is on the order of 50 feet. They are generally limited to the low areas adjacent to streams. Permeability of the deposits varies from moderate in the thin-bedded sands to very low in the silts and clays. Yield to wells is generally low but is sufficient for domestic purposes.

The average change in water level from the spring of 1958 to the spring of 1959 in 3 selected wells in San Gregorio Valley was a decline of 9 feet. In well 7S/5W-15E1, in the community of San Gregorio, there was a net decline of 10 feet. In well 8S/5W-9H1, about one-half mile southwest of Pescadero, and well 8S/5W-11P1, about one mile southeast of Pescadero, there were net declines of 1.7 feet and 6.8 feet, respectively.

Central Coastal Region

The Central Coastal Region includes all of the coastal drainage areas from the southern boundary of Pescadero Creek Basin in Santa Cruz County to the northeastern boundary of Rincon Creek Basin in Ventura County. Inland it extends an average of about 50 miles to the crest of the coastal range. That portion of the region for which ground water data are presented in this report comprises the coastal drainage areas from the southern boundary of Pescadero Creek Basin to the Monterey-San Luis Obispo County line. Included are parts of Santa Clara and San Benito Counties and all of Santa Cruz and Monterey Counties. Data pertinent to

the remaining area of the region, including the upper Salinas River Basin in San Luis Obispo County, are presented in the Bulletin No. 39 annual series, "Water Supply Conditions in Southern California".

Ground water data which afford information on the change in water levels from the spring of 1958 to the spring of 1959 are presented in this report for 11 basins or ground water units in the Central Coastal Region. Of the 11 units, water levels in 1959 were higher than in 1958 in 4 units, lower in 4 units, with little or no change in 2 units and both a rise and decline in 2 pressure areas in 1 unit. The average change in level ranged from a decline of 3 feet in the Salins Valley 400-foot aquifer to a rise of 23.9 feet in South Santa Clara County.

Water level records for selected wells in the Central Coastal Region are given in Appendix B, the average changes in water levels from 1958 to 1959 in valleys and basins of the region are given in Table 5; a summary of ground water level data collected from July 1, 1958 to June 30, 1959, is given in Table 6. The fluctuations of water levels during the period of record at specific selected wells in the region are shown by the hydrographs on Plate 4, "Fluctuation of Water Level In Wells Central Coastal Region".

West Santa Cruz Terrace

West Santa Cruz Terrace (3-26.00) extends westerly about 7 miles from the City of Santa Cruz in Santa Cruz County. It is a segment of the series of terraces and small aluviated valleys forming an almost continuous border along the coastal strip of the southern Coast Range geomorphic

TABLE 5
AVERAGE CHANGE IN GROUND WATER LEVELS IN
BASINS AND UNITS IN CENTRAL COASTAL REGION
SPRING 1958 TO SPRING 1959

Ground water basin or unit		: Number of	: Average	: Location and recorded maximum	
		: wells	: change in	: and minimum depth to water in	
		: considered	: ground water	: the spring of 1959,	
		: in	: level 1958	: in feet	
		: analysis	: to 1959,		
Name	: Number	: in feet	: Maximum	: Minimum	
West Santa Cruz Terrace	3-26.00	1	-0.2	11S/2W-22K1 48.6	11S/2W-22K1 48.4
Soquel Valley	3-1.00	2	+2.1	11S/1W-9L1 62.9	11S/1W-21H1 21.9
Pajaro Valley	3-2.00	5	-0.7	13S/2E-5B1 137.1	12S/1E-24G1 3.3
Gilroy-Hollister Valley	3-3.00				
South Santa Clara County	3-3.01	<u>1/</u>	+23.9	10S/4E-35E1 73.2	11S/4E-22M1 0.0
San Benito County	3-3.02	<u>1/</u>	-1.4	12S/5E-12F1 68.0	13S/5E-11Q1 18.0
Salinas Valley	3-4.00				
Pressure Area	3-4.01				
180-foot aquifer		<u>1/</u>	+2.5	15S/4E-33A1 76.5	14S/2E-3C1 7.7
400-foot aquifer		<u>1/</u>	-3.2	14S/3E-18J1 77.5	13S/2E-31Q1 10.8
East Side Area	3-4.02	<u>1/</u>	-1.7	16S/5E-17R1 74.2	14S/3E-15K1 45.0
Forebay Area	3-4.03	<u>1/</u>	+0.1	17S/5E-11C1 55.5	18S/7E-18P1 28.6
Arroyo Seco Cone	3-4.04	<u>1/</u>	+3.5	19S/6E-11C1 152.8	17S/6E-32E1 3.6
Upper Valley Area	3-4.05	<u>1/</u>	+3.2	19S/7E-10P1 86.7	21S/9E-6K1 11.8
Carmel Valley	3-7.00	2	-0.6	16S/1E-25B1 14.5	16S/1E-21A1 10.3

1/ Averages were determined by planimetering ground water contour maps. The remaining averages are numerical computations of index well measurements.

TABLE 6

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE CENTRAL COASTAL REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : number	: Measuring agency	: Number of wells measured		
			: Monthly	: Fall 1958	: Spring 1959
West Santa Cruz Terrace	3-26.00	Department of Water Resources		3	3
Soquel Valley	3-1.00	Department of Water Resources	2	5	6
Pajaro Valley	3-2.00	Monterey County Flood Control and Water Conservation District		30	29
		Department of Water Resources	5	7	27
		City of Watsonville	5		
Gilroy-Hollister Valley South Santa Clara County	3-3.00				
	3-3.01	South Santa Clara Valley Water Conservation District		21	21
San Benito County	3-3.02	Santa Clara Valley Water Conservation District	12		
		Department of Water Resources	2	13	13
		Pacheco Pass Water District San Benito County		68	68
Salinas Valley Pressure Area	3-4.00				
	3-4.01	Monterey County Flood Control and Water Conservation District	16	129	129
East Side Area	3-4.02	Monterey County Flood Control and Water Conservation District	10	86	86
Forebay Area	3-4.03	Monterey County Flood Control and Water Conservation District	8	40	40
Arroyo Seco Cone	3-4.04	Monterey County Flood Control and Water Conservation District	5	21	21
Upper Valley Area	3-4.05	Monterey County Flood Control and Water Conservation District	6	20	20
Carmel Valley	3-7.00	Department of Water Resources	2	6	6

province between Half Moon Bay and Santa Cruz. The remnants of at least four terrace levels are apparent in the Santa Cruz area. The lowest terrace ranges from 20 to 100 feet above sea level and averages about 1 mile in width. It is almost continuous, except where cut through by small stream valleys.

Sources of ground water in the area are the unconsolidated clays, silts, sands, and gravel in the terrace and alluvial deposits. Thickness of the terrace deposits varies from a few inches to 40 feet and averages about 10 feet. For the most part, the yield to wells from the terrace deposits is low. The water is used principally for domestic purposes.

The alluvial deposits in the small valleys provide the principal source of ground water. Thickness of the deposits ranges from a few feet to 175 feet. Although the yield to wells generally is only moderate to low, some wells provide sufficient water for limited irrigation.

Depth to ground water varies considerably from one locality to another because of the discontinuous nature of the valley and terrace deposits.

In selected well 11S/2W-22K1, north of Natural Bridges Beach State Park and about 0.3 mile south of State Highway, there was substantially no change in water level from the spring of 1958 to the spring of 1959. Although the water level record for this well is available only for the period beginning with 1954, the minute decline from 1958 to 1959 would appear to be an interlude in a downward trend that has prevailed at least since 1954. The water level in 1959 was lower than the level in 1954 by 10 feet in well 11S/2W-22K1.

Soquel Valley

Soquel Valley (3-1.00), in Santa Cruz County, is one of several minor alluviated stream valleys along the coastal margin of the southern Coast Range geomorphic province. Broad marine terraces occupy the coastal strip on either side of the mouth of the valley.

Although limited production of free ground water is obtained for domestic use from wells penetrating the thin alluvial and terrace deposits, the principal aquifer underlying the valley is a stratum of black sand under confining beds in the Purisima formation. Ground water is pumped for both domestic and irrigation uses.

The water level in the spring of 1959 was about 4 feet higher than in the spring of 1958 in selected well 11S/1W-9L1, about 1 mile west of Soquel. In selected well 11S/1W-21H1, about three-fourths of a mile northeast of Soquel Point on the coast, the level was essentially the same as in 1958. Records for well 11S/1W-9L1 for the period 1949 through 1958 show that there was a net rise in the water level of 12 feet from spring of 1949 to spring of 1959.

Pajaro Valley

Pajaro Valley (3-2.00), comprising about 75 square miles, occupies the drainage area of the Pajaro River below Pajaro Gap, including the northern extremity of Monterey County, a small part of the northwestern corner of San Benito County, and the southern portion of Santa Cruz County. It extends from the drainage divide between Pajaro River and Elkhorn Slough on the south to the Santa Cruz mountains on the north and east.

Ground water in the valley is stored in aquifers in Tertiary and late Quaternary deposits. These water-bearing units include Quaternary valley fill, Pleistocene terrace deposits, the Aromas formation of Pleistocene age and the underlying Purisima formation of Pliocene age. In the valley floor area, ground water occurs in three distinct zones, shallow, intermediate, and deep. The shallow zone extends from land surface to a depth of 100 feet. Areas of unconfined, semiperched water are found throughout this zone, underlain by a relatively extensive blue clay aquiclude. In the intermediate zone, lying below the shallow zone and extending to a depth of approximately 200 to 300 feet, the ground water is largely confined. The deep zone underlies the intermediate zone, and extends to a depth of approximately 800 feet below land surface. Ground water in this zone is also confined. The piezometric surface is higher than that of the intermediate zone; several wells near the coast flow during the winter and early spring.

At least two of these three aquifers merge into a forebay in the area north, east, and south of the City of Watsonville. This area is underlain by permeable deposits which are the principal source of ground water replenishment to the intermediate zone.

There is extensive development of ground water in the valley for domestic and irrigation needs and moderate development for stock-watering and industrial needs. Nearly all of the water for irrigation, and a substantial portion of the water utilized by the City of Watsonville for municipal purposes, is pumped from the confined ground water bodies.

Under natural conditions, the general direction of ground water movement in the deeper zones was from the uplands to Monterey Bay. However, overdraft of the ground water in the intermediate zone has caused a pumping trough to develop immediately west of Watsonville. A landward gradient has thereby been created, and sea water has intruded into the intermediate zone.

Water levels in the spring of 1959 were higher than they were in the spring of 1958 in two of six selected wells, lower in two wells and approximately the same in two wells. The average change amounted to a net decline of 0.7 foot. The rise amounted to 0.5 foot in wells 12S/2E-16J1 located about one-half mile southeast of Watsonville Junction and 12S/2E-17R1 approximately 2 miles south of Watsonville. The hydrograph of one of these, well 12S/2E-16J1, is shown on Plate 4. During the period from 1947 through 1958, the highest observed water level in this well was 14 feet above sea level in the spring of 1947 and the lowest observed level was 5 feet below sea level in the fall of 1949. From the spring of 1947 to the spring of 1956 there was a net decline of 8 feet and from spring of 1956 to spring of 1959 there was a further decline of 3 feet. The net decline in water level from the spring of 1958 to the spring of 1959 ranged from 4.4 feet in well 13S/2E-6R1, located about 1 mile northeast of the mouth of Elkhorn Slough, to 49.3 feet in well 13S/2E-5B1 near Moss Landing Union School. The decline of 49.3 feet is possibly due to the depletion of a localized ground water supply. The water level in this well, in the spring of 1959, was in accord with water levels in the basin generally.

Gilroy-Hollister Valley, South Santa Clara County

The South Santa Clara County area of the Gilroy-Hollister Valley (3-3.01) comprises that portion of the valley extending southeasterly from the low topographic divide near Morgan Hill approximately 15 miles to the Pajaro River. Drainage is to San Francisco Bay north of the Morgan Hill divide and to the Pajaro River south of it. The divide is also the southern boundary of the North Santa Clara County area of the Santa Clara Valley. The South Santa Clara County area is bounded on the west by the Santa Cruz Range and on the east by the Diablo Range. It varies in width from about 3 miles at the Morgan Hill divide to about 10 miles at the latitude of the City of Gilroy.

The upper Quaternary sediments that occupy the valley proper and some adjacent areas are the main source of ground water in the area. These sediments consist of flood plain, alluvial fan, and tideland or marine swamp deposits. The main aquifers in the upper Quaternary sediments are principally gravels. The tideland deposits consist of fairly continuous blue clays which overlie and cap the aquifer and create a pressure zone in the area. The clays dip gently southward, and increase in thickness from San Martin toward the Pajaro River.

The pressure zone includes an area extending from about two miles southeast of San Martin to the Pajaro River on the south, and along the Pajaro River from near Sargent on the west to near San Felipe Lake on the east. The free ground water or forebay zone lies between the boundary of the pressure zone and the valley floor-foothill line on

the west and east and extends northwest to the north boundary of the South Santa Clara County area near Morgan Hill. The pressure zone comprises about 20,000 acres and the forebay zone about 26,000 acres.

Nearly all of the water requirements for irrigation, domestic, and industrial uses in the area are supplied from ground water. The pumping for irrigation constitutes about 75 percent of the total ground water withdrawal. The South Santa Clara Valley Water Conservation District controls the flows on Uvas and Llagas Creeks by the Uvas Dam and Reservoir on Uvas Creek and the Chesbro Dam and Reservoir on Llagas Creek. Releases from these reservoirs artificially recharge the ground water basin, largely through percolation in the channel of Llagas Creek in the forebay zone.

Changes in the water level from the spring of 1958 to the spring of 1959 in 6 selected wells widely dispersed in the South Santa Clara County area ranged from a rise of 46 feet in well 10S/4E-18G2, in the forebay zone about 2 miles southeast of San Martin, to no significant change in well 10S/3E-34L1, about 3 miles west of Gilroy. The hydrograph of well 9S/3E-27C2, about 1 mile east of Morgan Hill, is shown on Plate 4. During the period of record for this well from 1914 through 1958, the highest observed water level was 320 feet above sea level in the spring of 1916, and the next highest observed level was 315 feet above sea level in the spring of 1941. The lowest observed level was about 205 feet above sea level in the fall of both 1950 and 1955. In the spring of 1959 the water level was 89 feet higher than the low level of 1950 and 1955, and 21 feet lower than the high level of 1941.

Gilroy-Hollister Valley, San Benito County

The San Benito County area of the Gilroy-Hollister Valley (3-3.02) comprises roughly that portion of the valley extending southeasterly from the Pajaro River on the north to the San Benito River on the south. It includes several ground water basins which have formed in a major faulted structural trough in the southern Coast Ranges geomorphic province. The largest and most important of the basins is that in the Hollister area with a length of about 15 miles, from the Pajaro River to Tres Pinos Creek, and an average width of about 5 miles. Other basins include the San Benito Valley west of Hollister, Pacheco Creek Valley to the northeast; Santa Ana Valley, and arm extending along Santa Ana Creek to the southeast, and two long arms extending south from the town of Tres Pinos along San Benito River and Tres Pinos Creek.

The principal sources of ground water in the area are the valley alluvium, alluvial fan, flood plain, stream channel and terrace deposits of Quaternary age; the San Benito gravels of Plio-Pleistocene age, and the Purisima formation of Pliocene age. The Purisima formation underlies the valley alluvium and forms the principal aquifers beneath the Hollister and San Benito Valleys. Pressure zones, created by confined water in the Purisima formation, include an area extending from north of the Pajaro River to about two miles north of Hollister and an area in the western portion of San Benito Valley.

A prominent barrier to ground water movement is the Hollister fault extending from the San Benito River northwesterly through Hollister to the Pajaro River. Other active faults in the area, which also may

affect the movement of ground water, include: The San Andreas fault along the west margin of the basins; the Paicenes fault, 3 miles to the east of, and roughly parallel to, the San Andreas fault; the Sargent fault, apparently an extension of the Paicenes fault from Hollister toward the northwest; the Balado Park fault along Tres Pinos Creek; and the Hayward fault along the eastern margin of the basins. These faults may act as conduits along which highly mineralized waters can enter and degrade the ground water in some parts of the basins.

Although some wells in the area yield up to 1,700 gallons per minute (gpm), the average yield of ground water is about 500 gpm. Water levels in both free and pressure zones range from 10 to 170 feet below land surface. There is extensive development of ground water in the area for irrigation and domestic needs, and moderate development for industrial and stockwatering uses. The Pacheco Pass Water District controls flows on Pacheco Creek and Arroyo de las Viboras, and recharges the eastern portion of the basin through stream channels and spreading basins.

The records of 4 selected wells in the valley show an average decline in water level from spring of 1958 to spring of 1959 of about 5 feet as shown in Table 5. The change in water levels ranged from a net rise of 1.5 feet in well 21S/5E-12F1, about three-fourths of a mile west of Fairview Road and four miles north of Hollister, to a net decline of 14 feet in well 12S/4E-20C1 located just west of State Route 156, about one-fourth mile west of San Benito River and two and one-half miles northwest of San Juan Bautista. The hydrograph for well 12S/5E-12F1 is shown

on Plate 4. During the period of record for this well, from 1951 through the spring of 1959, the highest observed water level was 162 feet in 1952 and the lowest was 134 feet in June 1959. The second highest water level observation was 157 feet in the spring of 1959.

Salinas Valley

Salinas Valley (3-4.00) is a narrow, elongated, northwest-southeast trending valley located largely in Monterey County. It is about 100 miles long, averages approximately 5.5 miles in width, and contains 660 square miles of irrigated and dry-farm lands. The valley is bordered on the southwest by the Santa Lucia Range and the Sierra de Salinas and on the northeast by the Gabilan Range.

That portion of the valley treated in this report is known as the Lower Basin which consists of the valley area between Wunpost and Monterey Bay in Monterey County. The Lower Basin has been subdivided into five hydrologic units: the Pressure Area, East Side Area, Forebay Area, Arroyo Seco Cone, and Upper Valley Area.

Water-bearing formations in the Salinas Valley include sediments of the Paso Robles formation, Aromas red sands and terrace deposits, alluvium, and dune sands. The Paso Robles formation flanks the floor of the valley in the Lower Basin at various points and probably underlies much or all of the valley below depths of 200 to 300 feet.

The valley fill of the Lower Basin is an extensive body of alluvium with considerable ground water storage capacity. Pleistocene and Recent alluvium and terrace deposits, composed of gravel, sand, silt, and clay in various combinations, underlie Salinas Valley in thicknesses

of as much as 300 feet. Alluvial fans occur along both sides of the valley, those on the west side being steeper than on the east. Alluvium and terrace materials provide the principal supply of ground water to shallow wells throughout the Lower Basin. Probably most deep wells in the valley extract water principally from sediments of the Paso Robles formation. In the Lower Basin, near the City of Salinas, beds of blue clay of sufficient thickness and areal extent to confine the ground water in the underlying aquifers are found.

Lands in the valley are devoted primarily to the production of irrigated crops, with urban and industrial uses of secondary importance. Ground water is the only source of irrigation water supply in the Lower Basin. The high degree of agricultural development on the valley floor lands, from Monterey Bay southerly to San Ardo, results from the availability of ground water in this area. The yield of wells in the area ranges from about 200 gpm to more than 3,000 gpm.

The principal aquifers in the Pressure Area are designated as the 180-foot and 400-foot aquifers because of the average depth of the water-bearing material below ground surface. The 180-foot aquifer is overlain by a shallow perched ground water body of poor mineral quality. Water from this perched zone is not used in any significant quantity. The pressure aquifers are recharged by subsurface inflow from the Forebay Area south of Salinas. Evidence indicates that the seaward extension of the 180-foot aquifer is exposed to saline water of Monterey Bay in the Monterey Submarine Canyon.

The natural ground water gradient in Salinas Valley is from the upper portions of the valley westward toward Monterey Bay. However, annual depression of water levels during heavy summer pumping periods has caused the formation of a pumping trough which results in a reversed hydraulic gradient and subsurface inflow from beneath Monterey Bay.

Average changes in the water level, from the spring of 1958 to the spring of 1959, in the five hydrologic areas of the Lower Basin ranged from a rise of 1 foot in the 180-foot aquifer of the Pressure Area to a decline of 4 feet in the 400-foot aquifer of the Pressure Area as shown in Table 5.

In six selected wells which pump from the 180-foot aquifer, the change in water level ranged from a decline of 3 feet in well 14S/2E-3C1, $1\frac{1}{2}$ miles southeast of Castroville to a rise of over 7 feet in well 15S/4E-33A1, $1\frac{1}{2}$ miles northwest of Chualar. A hydrograph of select well 15S/2E-1Q1, for the period 1931-1959, is shown on Plate 4. The highest observed water level in this well, about 3 miles southwest of Salinas, was 28 feet above sea level in both 1932 and 1942. The lowest observed level was 5 feet below sea level in 1934. In the spring of 1959 the water level was 10 feet below the high levels of 1932 and 1942 and 23 feet above the low level of 1934.

There was a net decline in the water level from 1958 to 1959 in both of two selected wells which pump from the 400-foot aquifer. The greatest decline was over 6 feet in well 13S/2E-31Q1, 2 miles southwest of Castroville. A hydrograph for well 14S/3E-18J1, 1 mile west of Highway 101 and $2\frac{1}{2}$ miles northwest of Salinas, shown on Plate 4, covers

the period from 1931 to 1959. The highest observed level during this period was 37 feet above sea level in 1932; the lowest was 9 feet below sea level in 1940. A definite downward trend in the water levels is shown from a high level of 30 feet above sea level in 1942 to the present time.

Two selected wells in the East Side Area from 1958 to 1959 showed a 1 foot decline in the first and a net rise of 33 feet in the second. However the rise of 33 feet is questionable and not representative of the area. A hydrograph of the first well 14S/3E-15K1, is shown on Plate 4. In this well, 2 miles east of Highway 101 and 3 miles northeast of Salinas, there was an upward trend in the water levels from a low level of 40 feet above sea level in 1932 to a high level of 77 feet above sea level in 1942. From 1942 there was a downward trend to a low level of 68 feet above sea level in 1950. Since 1950 the trend has again been upward. In the spring of 1959 the water level was 2 feet below the high of 1942 and 7 feet above the low of 1950.

In two selected wells in the Forebay Area from 1958 to 1959 there were net rises of 6.3 feet and 3 feet. The 3-foot rise occurred in well 18S/7E-18P1, 1 mile east of Highway 101, 3 miles northwest of Greenfield. The 6.3-foot rise occurred in well 17S/5E-11C1, just east of Highway 101, 4 miles southeast of Gonzales. A hydrograph of well 17S/5E-11C1, presented on Plate 4, shows that during the period 1931-1958 the water level has ranged from a high of 125 feet above sea level in 1941 to a low of 98 feet above sea level in 1949. In the spring of 1959 the level was about 117 feet above sea level.

Net rises in the water level from 1958 to 1959 in three selected wells in the Arroyo Seco Cone ranged from 0.9 to 5.9 feet. In well 17S/6E-32E1, south of the Salinas River, $1\frac{1}{2}$ miles southwest of Soledad, the net rise was 0.9 foot. A hydrograph of this well, included on Plate 4, shows no definite long-term upward or downward trend in the water level from 1931 through 1959. In the spring of 1959 the level was 4 feet higher than it was in the spring of 1932.

In five selected wells in the Upper Valley Area, the water level in 1959 was higher than in 1958 in three wells and lower in two wells. The greatest net rise was 3.8 feet in well 19S/7E-10P1, just west of Highway 101, $6\frac{1}{2}$ miles northwest of King City. A hydrograph of this well is presented on Plate 4.

Carmel Valley

Carmel Valley (3-7.00), in Monterey County, is a long alluviated valley extending eastward from the coast for 23 miles. It occupies a valley floor area of about 5 square miles approximately 4 miles south of the City of Monterey.

Ground water occurs in unconsolidated alluvium, which averages about 100 feet in thickness and attains a maximum thickness of approximately 125 feet adjacent to the coast. The alluvium consists mainly of sand and gravel with small, discontinuous lenses of silt or clay.

Except for a small lagoon, practically all of the valley is utilized for truck crops. Local domestic and irrigation needs are supplied by numerous wells throughout the valley.

A seaward hydraulic gradient exists over the entire ground water basin.

In two selected wells in the valley, the water level in the spring of 1959 was higher than in the spring of 1958 in one well and lower in the other. In well 16S/1E-25B1, south of Carmel River and about $6\frac{1}{2}$ miles inland from the coast, there was a net rise of 1 foot. In well 16S/1E-21A1, north of Carmel River and about 4 miles inland from the coast, there was a net decline of 2 feet in the level from 1958 to 1959. A hydrograph of well 16S/1E-21A1 for the period 1953 through 1958 is presented on Plate 4. In the spring of 1959 the water level was about 1 foot lower than in the spring of 1954.

Central Valley Region

The Central Valley Region comprises an area of approximately 59,000 square miles, which includes about 38 percent of the land surface containing nearly 44 percent of the valley and mesa lands of the State. The Central Valley Region extends from the eastern end of the California-Oregon line southward to the Tehachapi Mountains, and from the crest of the Coast Range on the west to the crest of the Sierra Nevada on the east. It averages 120 miles in width and is more than 500 miles in length. It comprises all stream basins that drain into Sacramento and San Joaquin Valleys upstream from the point of discharge of the Sacramento River into Suisun Bay. All of 21 counties and parts of 15 counties are included in the region.

Data concerning 68 ground water basins or units in the Central Valley Region are given in this report. Ground water levels in the spring of 1959 were lower than they were in the spring of 1958 in 30 units, higher in 30 units, and essentially the same in 5 units. Data were not available to afford the comparison in three units. The average change in water level ranged from a decline of 17.5 feet in the Mendota-Huron Area to a rise of 14.6 in the Lindsay-Strathmore Irrigation District.

Water level records for selected wells in the Central Valley Region are given in Appendix B; the average changes in water levels from 1958 to 1959 in basins and ground water units of the region are given in Table 7, and a summary of ground water level data collected from July 1, 1958 to June 30, 1959, is given in Table 8. The fluctuations of water levels during the period of record at selected wells in the region are shown by the hydrographs on Plates 5, 6, and 7, for the Sacramento Valley, Northern San Joaquin Valley, and Southern San Joaquin Valley, respectively.

Redding Basin

The Redding ground water basin (5-6.00) occupies the south-central portion of Shasta County and the north-central portion of Tehama County. It comprises an area of somewhat dissected alluvial uplands, river flood plains, and river channels at the northernmost end of the Great Valley geomorphic province. On the west and north the basin is bounded by the Coast Range and the Klamath Mountain; on the east it merges with the foothills of the Cascade Range, and on the south a structural, physiographic rise separates the basin from the Sacramento Valley. The total

TABLE 7
AVERAGE CHANGE IN GROUND WATER LEVELS IN
BASINS AND UNITS IN CENTRAL VALLEY REGION
SPRING 1958 TO SPRING 1959

Ground water basin or unit	: Number of	: Average	: Location and recorded maximum		
	: wells	: change in	: and minimum depth to water in		
	: considered	: ground water	: the spring of 1959,		
	: in	: level 1958	: in feet		
	: analysis	: to 1959,			
	:	: in feet			
Name	: Number	:	: Maximum	: Minimum	
Redding Basin	5-6.00	20	-1.9	30N/5W-15R1 189.6	31N/3W-17N3 7.0
Upper Lake Valley	5-13.00	—	<u>1/</u>	16N/9W-31Q1 8.1	15N/9W-7G1 5.5
Scott Valley	5-14.00	—	<u>1/</u>	14N/10W-22A1 11.1	14N/10W-14F1 2.4
Kelseyville Valley	5-15.00	—	<u>1/</u>	13N/9W-14D1 12.2	14N/9W-32E1 5.9
Long Valley	5-31.00	1	-0.4	14N/7W-6F1 7.1	14N/7W-6F1 7.1
High Valley	5-16.00	2	-0.4	14N/7W-19E1 31.0	14N/8W-24J1 3.5
Burns Valley	5-17.00	2	-4.3	13N/7W-28R1 8.5	13N/7W-15Q1 2.4
Lower Lake Area	5-30.00	3	-1.0	12N/7W-14G2 17.4	12N/7W-23B1 1.7
Coyote Valley	5-18.00	1	-1.5	11N/6W-19G1 12.6	11N/6W-19G1 11.0
Collayomi Valley	5-19.00	3	-2.3	11N/7W-33L1 53.0	10N/7W-1G1 4.9
Sacramento Valley	5-21.00				
Tehama County	5-21.01	<u>2/</u>	+2.7	26N/2W-14G1 75.9	24N/2W-2N1 6.9
Glenn County	5-21.02	<u>2/</u>	+5.7	22N/4W-25B1 103.8	20N/2W-7A1 0.4
Butte County	5-21.03	<u>2/</u>	-2.4	22N/2E-17E1 66.8	19N/2E-10B9 2.2
Colusa County	5-21.04	<u>2/</u>	-5.4	13N/2W-21B1 224.0	17N/2W-11K1 2.0
Sutter County	5-21.05	<u>2/</u>	-4.8	13N/5E-7K1 48.4	15N/1E-14F1 5.9
Yuba County	5-21.06	<u>2/</u>	-5.1	14N/4E-13C1 65.9	13N/4E-7E1 11.1
Placer County	5-21.07	<u>2/</u>	-4.6	11N/5E-34R3 74.9	11N/6E-11R1 16.6
Sacramento County	5-21.08	<u>2/</u>	-4.6	6N/8E-15J1 122.6	10N/4E-19D1 8.1
Yolo County	5-21.09	<u>2/</u>	-5.2	12N/1W-5M1 118.1	6N/3E-15C1 3.6

TABLE 7 (Continued)
 AVERAGE CHANGE IN GROUND WATER LEVELS IN
 BASINS AND UNITS IN CENTRAL VALLEY REGION
 SPRING 1958 TO SPRING 1959

Ground water basin or unit		Number of wells considered in analysis	Average change in ground water level 1958 to 1959, in feet	Location and recorded maximum and minimum depth to water in the spring of 1959, in feet	
Name	Number			Maximum	Minimum
Sacramento Valley (continued)	5-21.00				
Capay Valley	5-21.10	2/	-1.6	11N/3W-4P1 43.3	10N/2W-16L1 12.8
Solano County	5-21.11	2/	-0.1	7N/1E-12N2 81.2	5N/2E-36N1 6.3
San Joaquin Valley	5-22.00				
Mokelumne River Area	5-22.01	2/	+0.1	5N/7E-34G1 65.9	4N/5E-22A1 3.2
Calaveras River Area	5-22.02	2/	+3.3	2N/9E-7G2 80.5	2N/6E-34K1 27.0
Farmington-Collegeville Area	5-22.03	2/	-1.8	1N/8E-17D1 74.2	1S/8E-19N1 11.0
Tracy Area	5-22.04	5	-1.6	3S/6E-3F1 20.0	1S/6E-31E1 6.9
South San Joaquin Irrigation District	5-22.05	1	+0.7	2S/9E-8H1 22.8	2S/9E-8H1 21.5
Oakdale Irrigation District	5-22.06	8	+2.9	1S/10E-28J1 80.6	2S/12E-31K1 41.7
Modesto Irrigation District	5-22.07	6	-2.8	4S/8E-3A1 12.0	3S/7E-15A1 5.5
Turlock Irrigation District	5-22.08	9	-1.5	4S/8E-27D1 8.3	5S/11E-21N1 4.3
Merced Irrigation District	5-22.09	14	-1.3	6S/13E-19N1 18.7	7S/12E-21D1 5.1
El Nido Irrigation District	5-22.10	2	+4.7	9S/13E-14R1 55.0	9S/14E-17K1 54.5
Delta-Mendota Area	5-22.11				
Shallow zone		30	-0.4	13S/12E-22N1 191.4	9S/10E-19B1 1.3
Deep zone		19	-1.8	12S/11E-35Q1 327.2	8S/9E-26H1 7.6
Chowchilla Water District	5-22.12	2/	+5.8	9S/17E-21L1 78.3	10S/14E-26G1 41.6
Madera Irrigation District	5-22.13	2/	+0.5	11S/20E-22N1 107.5	11S/21E-31D3 18.8
West Chowchilla-Madera Area	5-22.14	2/	+2.0	10S/14E-1R1 38.0	12S/14E-28G1 12.8
Fresno Irrigation District	5-22.15	2/	+1.2	12S/20E-14A1 88.9	13S/21E-23D1 14.8
City of Fresno	5-22.16	2/	+1.9	14S/20E-10M1 67.9	14S/20E-10M1 62.1
Fresno Slough Area	5-22.17	2/	-0.8	15S/16E-34E1 163.0	13S/15E-28H1 9.5

TABLE 7 (Continued)
 AVERAGE CHANGE IN GROUND WATER LEVELS IN
 BASINS AND UNITS IN CENTRAL VALLEY REGION
 SPRING 1958 TO SPRING 1959

Ground water basin or unit		: Number of : wells : considered : in : analysis	: Average : change in : ground water : level 1958 : to 1959, : in feet	Location and recorded maximum and minimum depth to water in the spring of 1959, in feet	
Name	: Number	:	:	Maximum	: Minimum
San Joaquin Valley (continued)	5-22.00				
Consolidated Irrigation District	5-22.18	<u>2/</u>	+3.5	16S/19E-14A1 64.9	17S/22E-3C1 15.7
Alta Irrigation District	5-22.19	<u>2/</u>	+4.8	17S/25E-18R1 52.5	16S/24E-21J1 12.5
Lower Kings River Area	5-22.20	<u>2/</u>	+0.6	18S/18E-12N2 123.2	19S/19E-25A1 1.8
Orange Cove Irrigation District	5-22.21	<u>2/</u>	+7.4	15S/25E-22N1 26.6	14S/25E-30D1 19.4
Stone Corral Irrigation District	5-22.22	<u>2/</u>	+6.2	17S/26E-17P2 13.3	16S/26E-32P1 6.7
Ivanhoe Irrigation District	5-22.23	<u>2/</u>	0.0	18S/25E-12Q1 34.7	18S/25E-12Q1 34.7
Kaweah Delta Water Conservation District	5-22.24	<u>2/</u>	+2.9	20S/22E-10C1 77.0	17S/27E-34P1 10.7
Tulare Irrigation District	5-22.25	<u>2/</u>	+6.0	19S/23E-32H1 74.4	20S/24E-23R1 55.1
Exeter Irrigation District	5-22.26	<u>2/</u>	+10.5	19S/26E-23E1 84.8	18S/27E-29D1 22.2
Lindsay-Strathmore Irrigation District	5-22.27	<u>2/</u>	+14.6	19S/27E-29D1 67.0	20S/27E-6B1 64.7
Lindmore Irrigation District	5-22.28	<u>2/</u>	+10.8	20S/26E-22C2 111.2	20S/27E-29J1 62.0
Porterville Irrigation District	5-22.29	<u>2/</u>	+2.3	22S/27E-10R1 108.3	21S/27E-23R1 35.9
Lower Tule River Irrigation District	5-22.30	<u>2/</u>	+6.3	22S/25E-15A1 130.5	21S/25E-8H1 35.1
Vandalia Irrigation District	5-22.31	1	-3.2	22S/28E-18A1 106.3	22S/28E-18A1 106.3
Saucelito Irrigation District	5-22.32	<u>2/</u>	+4.6	22S/26E-15J1 127.1	22S/26E-15J1 127.1
Pixley Irrigation District	5-22.33	<u>2/</u>	+4.4	23S/25E-14C1 106.7	23S/25E-14C1 102.3
Alpaugh-Allensworth Area	5-22.34	<u>2/</u>	+3.7	23S/24E-36A1 90.9	24S/24E-23Q1 31.7
Delano-Earlimart Irrigation	5-22.35	<u>2/</u>	+1.4	23S/27E-28J1 313.3	24S/25E-33J1 90.4
South San Joaquin Municipal Utility District	5-22.36	<u>2/</u>	+0.9	26S/26E-16P1 289.7	25S/25E-6H1 76.0
North Kern Water Storage District	5-22.37	<u>2/</u>	-2.9	28S/27E-21F1 452.9	27S/26E-6H2 117.4
Shafter-Wasco Irrigation District	5-22.38	<u>2/</u>	-8.9	27S/24E-35C1 158.0	28S/24E-1R1 135.8

TABLE 7 (Continued)
 AVERAGE CHANGE IN GROUND WATER LEVELS IN
 BASINS AND UNITS IN CENTRAL VALLEY REGION
 SPRING 1958 TO SPRING 1959

Ground water basin or unit		Number of wells considered in analysis	Average change in ground water level 1958 to 1959, in feet	Location and recorded maximum and minimum depth to water in the spring of 1959, in feet	
Name	Number			Maximum	Minimum
San Joaquin Valley (continued)	5-22.00				
Kern River Delta Area	5-22.40	156 ^{2/}	0.0	32S/26E-36G1 168.2	31S/28E-17P2 15.0
Edison-Maricopa Area	5-22.41	2 [/]	-11.1	11N/21W-14D2 468.0	11N/18W-28D1 63.0
Buena Vista Water Storage District	5-22.42	28 ^{2/}	-0.1	26S/22E-32R1 76.5	28S/22E-10D2 18.1
Semitropic Water Storage District	5-22.43	2 [/]	-3.2	26S/24E-23M1 165.0	28S/23E-11E1 21.0
Avenal-McKittrick Area	5-22.44	16	-1.6	26S/18E-27F1 204.5	24S/18E-11D1 40.3
Tulare Lake-Lost Hills Area	5-22.45	16 ^{2/}	+2.4	24S/21E-15J1 30.4	24S/21E-15J1 30.4
Corcoran Irrigation District	5-22.46	2 [/]	+6.4	21S/22E-24K1 41.0	21S/22E-16G1 20.7
Mendota-Huron Area	5-22.47	2 [/]	-41.3	15S/13E-26N1 688.0	14S/15E-35N1 49.6
Terra Bella Irrigation District	5-22.50	2 [/]	-0.9	23S/27E-10H1 213.4	23S/27E-10H1 213.4

^{1/} No spring of 1958 measurement

^{2/} Averages were determined by planimetry of ground water contour maps. The remaining averages are numerical computations of index well measurements.

^{3/} Change using entire grid.

TABLE 8

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE CENTRAL VALLEY REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : number	: Measuring agency	: Number of wells measured		
			: Monthly	: Fall 1958	: Spring 1959
Redding Basin	5-6.00	U. S. Bureau of Reclamation	7		
		Department of Water Resources	5	97	97
Upper Lake Valley	5-13.00	Department of Water Resources	1	21	21
Scott Valley	5-14.00	Department of Water Resources	2	10	10
Kelseyville Valley	5-15.00	Department of Water Resources	2	37	37
Long Valley	5-31.00	Department of Water Resources		1	1
High Valley	5-16.00	U. S. Geological Survey	1		
		Department of Water Resources		1	1
Burns Valley	5-17.00	U. S. Geological Survey	1		
		Department of Water Resources		3	2
Lower Lake Area	5-30.00	U. S. Geological Survey	1		
		Department of Water Resources		4	4
Coyote Valley	5-18.00	U. S. Geological Survey	1		
		Department of Water Resources		2	1
Collayomi Valley	5-19.00	U. S. Geological Survey	1		
		Department of Water Resources		3	4
Sacramento Valley Tehama County	5-21.00 5-21.01	Tehama County		80	80
		U. S. Bureau of Reclamation		8	
Glenn County	5-21.02	U. S. Bureau of Reclamation	5	10	21
		Department of Water Resources	7	83	82
Butte County	5-21.03	Butte County		102	102
		U. S. Bureau of Reclamation	5		
Colusa County	5-21.04	U. S. Bureau of Reclamation	4	42	38
		Department of Water Resources	6	10	25
Sutter County	5-21.05	Sutter County		103	100
		U. S. Bureau of Reclamation		2	34
Yuba County	5-21.06	U. S. Bureau of Reclamation			
		Department of Water Resources	25	71	76
Placer County	5-21.07	U. S. Bureau of Reclamation		16	89
		Department of Water Resources	2		11
Sacramento County	5-21.08	Sacramento Municipal Utility District		18	18
		U. S. Bureau of Reclamation	5	17	209
		Department of Water Resources	6	66	111

TABLE 8 - continued

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE CENTRAL VALLEY REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	Basin : number	Measuring agency	Number of wells measured		
			Monthly	Fall: 1958	Spring 1959
Sacramento Valley (continued)	5-21.00				
Yolo County	5-21.09	Yolo County		231	224
		U. S. Bureau of Reclamation	35	15	69
		Department of Water Resources	5		15
Capay Valley	5-21.10	Yolo County			28
Solano County	5-21.11	U. S. Geological Survey	3		
		U. S. Bureau of Reclamation	40	85	85
		Department of Water Resources	5	47	49
San Joaquin Valley	5-22.00				
Mokelumne River Area	5-22.01	U. S. Bureau of Reclamation			5
		East Bay Municipal Utility District	22	34	27
		Department of Water Resources	1	75	74
Calaveras River Area	5-22.02	San Joaquin County		77	77
		California Water Service		12	12
		Department of Water Resources	1	81	78
Farmington-Collegeville Area	5-22.03	San Joaquin County		62	62
		Department of Water Resources	2		43
Tracy Area	5-22.04	San Joaquin County		23	23
		Department of Water Resources	1		23
South San Joaquin Irrigation District	5-22.05	South San Joaquin Irrigation District		57	57
Oakdale Irrigation District	5-22.06	Oakdale Irrigation District	20	126	126
Modesto Irrigation District	5-22.07	Modesto Irrigation District		102	102
Turlock Irrigation District	5-22.08	Turlock Irrigation District	200		
Merced Irrigation District	5-22.09	Merced Irrigation District	226		
		U. S. Bureau of Reclamation		16	16
El Nido Irrigation District	5-22.10	Merced Irrigation District		25	30
Delta-Mendota Area	5-22.11	U. S. Geological Survey	2		103
		U. S. Bureau of Reclamation		528	466
		Department of Water Resources	195	233	332
Chowchilla Water District	5-22.12	Chowchilla Water District		102	102
		U. S. Bureau of Reclamation		24	24
Madera Irrigation District	5-22.13	Madera Irrigation District		159	163
		U. S. Bureau of Reclamation		60	62
		Chowchilla Water District		4	5
		Department of Water Resources		8	8
West Chowchilla-Madera Area	5-22.14	Chowchilla Water District		8	8
		U. S. Bureau of Reclamation		102	104
		Madera Irrigation District		13	19
		Department of Water Resources		1	1

TABLE 8 - Continued

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE CENTRAL VALLEY REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : : number :	: Measuring agency :	: Number of wells measured		
			: Monthly :	: Fall : 1958 :	: Spring 1959 :
San Joaquin Valley (continued)	5-22.00				
Fresno Irrigation District	5-22.15	Consolidated Irrigation District		5	5
		Fresno Irrigation District	11	85	83
		U. S. Bureau of Reclamation	1	87	87
		Department of Water Resources		44	41
City of Fresno	5-22.16	City of Fresno	3	46	47
Fresno Slough Area	5-22.17	Fresno Irrigation District	2	12	12
		Consolidated Irrigation District		2	1
		U. S. Bureau of Reclamation		147	156
		Department of Water Resources		58	55
Consolidated Irrigation District	5-22.18	Consolidated Irrigation District	11	58	57
		Department of Water Resources		9	9
Alta Irrigation District	5-22.19	Alta Irrigation District	12	136	135
		Kaweah Delta Water Conservation District		1	1
		U. S. Bureau of Reclamation		24	25
		Orange Cove Irrigation District		2	2
		Department of Water Resources		1	1
Lower Kings River Area	5-22.20	Consolidated Irrigation District		7	6
		U. S. Bureau of Reclamation	1	7	6
		Department of Water Resources		173	172
Orange Cove Irrigation District	5-22.21	U. S. Bureau of Reclamation		13	13
		Orange Irrigation District	1	79	80
Stone Corral Irrigation District	5-22.22	U. S. Bureau of Reclamation		28	28
Ivanhoe Irrigation District	5-22.23	Ivanhoe Irrigation District		30	31
		U. S. Bureau of Reclamation		6	6
		Department of Water Resources		4	4
Kaweah Delta Water Conservation District	5-22.24	Exeter Irrigation District		14	14
		Tulare Irrigation District		5	4
		Kaweah Delta Water Conservation District		72	73
		Lindmore Irrigation District		6	6
		U. S. Bureau of Reclamation		26	26
		Alta Irrigation District		1	1
		Department of Water Resources		94	95
Tulare Irrigation District	5-22.25	U. S. Bureau of Reclamation		4	4
		Tulare Irrigation District		80	79
		Department of Water Resources			2
Exeter Irrigation District	5-22.26	Exeter Irrigation District		38	40
		U. S. Bureau of Reclamation		5	5
		Department of Water Resources		1	1
Lindsay-Strathmore Irrigation District	5-22.27	Lindmore Irrigation District		1	1
		Lindsay-Strathmore Irrigation District		18	19
		U. S. Bureau of Reclamation		2	
		Department of Water Resources			2

TABLE 8 - Continued

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE CENTRAL VALLEY REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : number	: Measuring agency	: Number of wells measured		
			: Monthly	: Fall 1958	: Spring 1959
San Joaquin Valley (continued)	5-22.00				
Lindmore Irrigation District	5-22.28	Exeter Irrigation District		1	1
		Porterville Irrigation District		2	2
		Lindmore Irrigation District	66		68
		Department of Water Resources			1
		U. S. Bureau of Reclamation		5	4
Porterville Irrigation District	5-22.29	Lower Tule River Irrigation District		4	4
		Saucelito Irrigation District		1	1
		Porterville Irrigation District	23		21
		U. S. Geological Survey			1
		U. S. Bureau of Reclamation		10	7
		Department of Water Resources		3	6
Lower Tule River Irrigation District	5-22.30	Saucelito Irrigation District		7	10
		Lower Tule River Irrigation District	2	112	108
		Porterville Irrigation District		2	1
		Lindmore Irrigation District		1	1
		Department of Water Resources		3	6
Vandalia Irrigation District	5-22.31	Department of Water Resources		1	2
		U. S. Bureau of Reclamation		1	1
Saucelito Irrigation District	5-22.32	Porterville Irrigation District		1	1
		Saucelito Irrigation District	17		20
		Delano-Earlimart Irrigation District		1	1
		U. S. Bureau of Reclamation		1	1
		U. S. Geological Survey			1
		Department of Water Resources		2	4
Pixley Irrigation District	5-22.33	U. S. Geological Survey	1		19
		U. S. Bureau of Reclamation	1	26	28
		Department of Water Resources		45	43
Alpaugh-Allensworth Area	5-22.34	Lower Tule River Irrigation District		1	1
		U. S. Geological Survey			16
		U. S. Bureau of Reclamation		27	30
		Delano-Earlimart Irrigation District		1	1
		Department of Water Resources		14	11
Delano-Earlimart Irrigation District	5-22.35	Delano-Earlimart Irrigation District	101		103
		U. S. Geological Survey			46
		U. S. Bureau of Reclamation		11	11
		Department of Water Resources		13	12
South San Joaquin Municipal Utility District	5-22.36	U. S. Geological Survey			21
		South San Joaquin Municipal Utility District	37		39
		Delano-Earlimart Irrigation District	1		1
		Kern County Land Company	1		6
		U. S. Bureau of Reclamation		5	3
		Department of Water Resources		20	15

TABLE 8 - Continued

SUMMARY OF GROUND WATER LEVEL DATA
COLLECTED IN THE CENTRAL VALLEY REGION
July 1, 1958 - June 30, 1959

Ground water basin or unit	: Basin : number	: Measuring agency	: Number of wells measured		
			: Monthly	: Fall 1958	: Spring 1959
San Joaquin Valley (continued)	5-22.00				
North Kern Water Storage District	5-22.37	Shafter-Wasco Irrigation District		7	6
		Kern County Land Company	5	160	184
		U. S. Bureau of Reclamation		19	16
		U. S. Geological Survey			6
		Department of Water Resources		31	10
Shafter-Wasco Irrigation District	5-22.38	Shafter-Wasco Irrigation District		39	40
		U. S. Bureau of Reclamation		2	2
		U. S. Geological Survey			10
		Kern County Land Company	1	25	25
		Department of Water Resources		4	
City of Bakersfield	5-22.39	California Water Service		30	30
Kern River Delta Area	5-22.40	Shafter-Wasco Irrigation District		3	5
		U. S. Geological Survey		10	
		Department of Water Resources		56	41
		U. S. Bureau of Reclamation		56	59
		Kern County Land Company	3	166	189
Edison-Maricopa Area	5-22.41	Kern County Land Company		23	28
		U. S. Geological Survey		63	3
		U. S. Bureau of Reclamation	2	129	129
		Department of Water Resources		68	56
Buena Vista Water Storage District	5-22.42	Buena Vista Water Storage District	3	21	21
		Department of Water Resources		8	7
		Kern County Land Company			2
		U. S. Geological Survey			4
		U. S. Bureau of Reclamation		21	21
Semitropic Water Storage District	5-22.43	Shafter-Wasco Irrigation District	1	3	4
		U. S. Bureau of Reclamation		60	62
		U. S. Geological Survey			49
		Kern County Land Company	1	16	19
		Department of Water Resources		50	30
		Buena Vista Water Storage District	2	1	1
Avenal-McKittrick Area	5-22.44	U. S. Geological Survey			111
		Department of Water Resources		107	
Tulare Lake-Lost Hills Area	5-22.45	Department of Water Resources		123	
Corcoran Irrigation District	5-22.46	Kaweah Delta Water Conservation District		2	2
		Department of Water Resources		10	10
Mendota-Huron Area	5-22.47	U. S. Geological Survey	8		566
		U. S. Bureau of Reclamation	6	37	49
		Department of Water Resources	5	490	9
Terra Bella Irrigation	5-22.50	U. S. Geological Survey			9
		U. S. Bureau of Reclamation		23	26
		Department of Water Resources		16	13

area of the basin, which on its eastern margin has been somewhat arbitrarily defined, is more than 500 square miles. Approximately 200 square miles of this total comprises valley-floor area. The Sacramento River, which enters the area north of Redding and leaves it through a gorge cut through the Red Bluff structural arch, drains the entire basin.

The basin is underlain by Quaternary and late Tertiary water-bearing sediments which, in turn, are underlain by nonwater-bearing or salt-water-bearing rocks of Cretaceous age. The Cretaceous rocks are deeply buried in the south-central portion of the basin, but are at or near the surface around the west, north, and east margins of the basin. Thickness of the fresh-water-bearing sediments varies from a feather edge near the west, north, and east margins of the basin to about 3,000 feet in the vicinity of Highway 99, 6 miles south of Cottonwood.

Five water-bearing geologic formations recognized in the basin are (1) alluvium of Recent age, (2) Red Bluff formation of Pleistocene age, (3) Tehama formation and (4) Tuscan formation of both Upper Pliocene and possibly Lower Pleistocene age, and (5) Nomlaki tuff of Pliocene age. The Tehama and Tuscan formations are the principal sources of ground water in the Redding Basin. They are distributed throughout the basin and extend eastward beneath the Cascade Range lavas, but are exposed where the overlying Red Bluff formation has been removed by erosion. They are composed of semiconsolidated clay, silt, and gravel, interbedded and intermixed.

Ground water in the principal water-bearing formations occurs in both free and confined states. In the Tehama formation it is believed to be generally confined in the deeper zones and may be partially confined,

locally, in shallow zones. Yields of ground water of good quality are obtained throughout much of the southeast and extreme southern parts of the basin where larger wells yield from 400 to more than 1,000 gallons per minute (gpm). In the northern part of the basin, wells generally do not yield sufficient water for extensive irrigation use. The yield of domestic wells is generally adequate throughout the basin except in the extreme northern part, where wells often go dry in late summer or become too saline for use.

In 20 selected wells widely distributed in Redding Basin water levels were higher in 5 wells in the spring of 1959 than in spring of 1958 and lower in 15 wells. The average change in level was a decline of approximately 2 feet as is shown in Table 7. Net rises ranged from 1 foot in well 30N/5W-3Q1, about three miles north of Olinda, to nearly 5 feet in well 30N/5W-15R1, about one-half mile north of Olinda. Net declines ranged from less than a foot in well 29N/3W-1A1 approximately 2 miles northeast of Bloody Island to 10 feet in well 29N/5W-11A2 about 6 miles west of Cottonwood.

Available records of water levels in wells in the basin cover the period from fall of 1955 through spring of 1959. This period is too short to afford any indication of trends in water levels which would reflect the effects, if any, of present ground water development.

A hydrograph is shown on Plate 5 for well 31N/3W-18B1, about one-half mile west of Cow Creek, one mile south of Palo Cedro. In this well there was a net decline in the water level from spring of 1956 to

to spring of 1957 of 2 feet, a net rise from spring of 1957 to spring of 1958 of about 5 feet, and a net decline from spring of 1958 to spring of 1959 of about 1 foot.

Upper Lake Kelseyville Area

The Upper Lake-Kelseyville area generally comprises those valley portions of Lake County tributary to and bordering the upper arm of Clear Lake on the north, west, and south. Three principal ground water basins in the area are Upper Lake (5-13.00), Scott (5-14.00), and Kelseyville Valleys (5-15.00). For convenience, and because of hydrologic similarities, these basins are discussed together.

Upper Lake Valley lies north of Clear Lake. It extends about 7 miles northerly and northwesterly from the shore line, and includes an area of about 10,500 acres.

Scott Valley lies about 2 miles northwest of Lakeport, separated from Clear Lake by a low ridge of hills. It is about 3 miles long in a northerly direction, about $1\frac{1}{2}$ miles wide, and contains about 2,500 acres.

Kelseyville Valley is bounded by Clear Lake on the north and extends southerly about 7 miles to a spur of the Coast Range. The valley is a gently rolling plain sloping from south to north and includes some 19,600 acres.

Geologic formations of the three valleys include sediments, beds of volcanic fragments which are probably the same age as the sediments, and clays, sands, and gravels, including Recent alluvium. Recent alluvium comprises the uppermost deposits in all three valleys.

In Kelseyville Valley, the deposits consist of alternating strata of gravel, sand, silt, and clay. The sand and gravel deposits usually occur as stringers while the clay beds are generally continuous. Both free and confined ground water occurs in the valley. The free ground water, or forebay zone, exists in the southern part of the valley while confined ground water underlies the portion of the valley bordering on Clear Lake.

Most of the northerly portion of Scott Valley is underlain by a thick blanket of sandy and silty clay which is mostly blue in color. This is underlain by strata which contain confined ground water. The free ground water area in the southern portion of the valley is rather limited.

As in Kelseyville Valley, the deposits in Upper Lake Valley consist of alternating strata of the various sediments. A thick stratum of sandy and silty clay occurs in the vicinity of Upper Lake and serves as a capping bed for an artesian aquifer of sand and gravel. Confined ground water underlies about three-fourths of Upper Lake Valley and extends northward from beneath Clear Lake. The free ground water lies north of the confined aquifers.

In all three valleys there is moderate to extensive development of ground water for irrigation, domestic, and stock-watering needs and only limited development for municipal and industrial needs.

Available records of water levels in wells in the three valleys cover the period from 1948-1954 and 1958-1959. These records indicate that, in general, the levels decline 5 to 20 feet during the summer and

fall of each year and that in most instances a complete recovery occurs during the following winter and spring. There is no evidence during the period of record of any downward trend in the water levels.

Lower Lake-Middletown Area

The Lower Lake-Middletown area (5-30.00) lies in the southern part of Lake County. It is a plateau-like, hilly, and mountainous part of the northern Coast Ranges. Within the mountains are irregularly shaped, fairly shallow valleys, most of which occur along very irregular drainage lines. There are nine large valleys, each several miles long with as much as 4,000 acres of arable land, and several small valleys. Those valleys or ground water units which are discussed herein and for which ground water data are presented in this report comprise, in north-south order, Long, High and Burns Valleys, Lower Lake Area, Coyote and Collayomi Valleys.

The central parts of all the valleys are at present being, or recently have been, filled with loose, unconsolidated gravel, sand, and clay. These deposits, derived from the decomposition and erosion of the adjacent mountains, were laid down on alluvial fans of moderate slope, in creek channels, on flood plains, and in playas. They are considered Recent in age. Along the margins of all valleys, alluvial fans have been deposited. Ordinarily, these deposits consist of lenticular beds, or tongues, of poorly sorted sand and gravel encased in relatively large amounts of clay and silt. Sand and gravel predominate near the valley margins, and clay and silt predominate in the central parts. Recent

alluvial deposits range from only a few inches to slightly more than 200 feet in thickness. For the most part, the alluvium of the valleys is the only important water-bearing material.

Long Valley, about 5 miles north of Clear Lake Oaks, is alluvium-filled and underlain by nonwater-bearing bedrock.

High Valley, about 2 miles north of Clear Lake Oaks, is isolated from main drainage lines. Its drainage pattern was altered by a volcanic flow that dammed the original outlet and allowed the valley to be filled with fine-grained alluvium.

Burns Valley is an elongated valley north of Clearlake Highlands. In most places in this valley the alluvium is underlain by the Cache formation of Anderson and composed mostly of clay and gravel.

Included in the Lower Lake Area are the alluvial plain of Cache Creek, northeast of the town of Lower Lake; the alluvial plain of Herndon Creek, east of Lower Lake; and Excelsior Valley, south of Lower Lake. The alluvium of the plains of Cache and Herndon Creeks is thin; that of Excelsior Valley is fine-grained, probably less than 50 feet thick, underlain by nonwater-bearing rocks.

Coyote and Collayomi Valleys comprise the drainage basins at the headwaters of Putah Creek. In Coyote Valley, northeast of Middletown, the alluvium may be underlain by water-bearing tuffs at depths greater than 100 feet, but in Collayomi Valley, in which Middletown is situated, the alluvium is underlain by nonwater-bearing bedrock.

In Long and High Valleys there is only limited development of ground water for domestic, stock watering, and minor irrigation needs.

In Burns, Coyote, and Collayomi Valleys there is moderate development for domestic needs and only limited development for irrigation needs. In the Lower Lake Area there is moderate development of ground water for domestic, municipal, and irrigation needs.

Water levels in the selected wells in the several valleys of the Lower Lake-Middletown area were lower in spring of 1959 than in spring of 1958. Average declines in water levels ranged from less than 1 foot in Coyote Valley to 4 feet in Burns Valley as shown in Table 7. A hydrograph covering the period 1950-1959 is shown on Plate 5 "Fluctuation of Water Level in Wells In Sacramento Valley Central Valley Region" for well 11N/7W-35E1 in Collayomi Valley. In this well, about 1 mile northeast of Middletown, the water level drops about 4 feet from spring to fall but full recovery occurs during the following winter and spring. Thus, in spring of 1959 the level was practically the same as in spring of 1950.

Sacramento Valley

The Sacramento Valley (5-21.00) forms the northern third of the Great Valley geomorphic province--one of the most notable structural depressions of the world. The valley is bounded on the east by the Sierra Nevada, on the northeast by the Cascade Range, and on the west by the Coast Range. A structural and physiographic rise in the older valley sediments separates the Sacramento Valley from the Redding Basin to the north. The Sacramento Valley is about 150 miles long and attains a maximum width of about 40 miles near its southern edge, where it merges with the San Joaquin Valley. The Sacramento River, which enters the valley near Red Bluff and flows generally southward to Suisun Bay, drains the valley.

The surface of the valley is nearly flat to gently undulating plain sloping from an altitude of about 300 feet near Red Bluff to sea level at Suisun Bay. The otherwise gentle profile of the valley floor is interrupted by Sutter Buttes, a volcanic prominence northwest of Marysville, rising more than 2,000 feet above the central plain. Although much of the valley appears to be quite flat and featureless, folding and faulting have raised some of the marginal sections above the general level, with consequent development of hilly or gently rolling topography dissected by stream erosion. Stream deposition has resulted in the development of alluvial fans and natural levees.

The valley contains the second largest ground water reservoir in the State, primarily in the underlying extensive sand and gravel deposits. Ground water is found in one or more of at least 12 geologic or stratigraphic units which underlie the five principal groups into which the various topographic and geomorphic forms of the valley have been classified. These five groups consist of (1) low hills and dissected alluvial uplands along the sides of the valley, which are underlain by tilted or folded continental sedimentary rocks of late Tertiary and early Quaternary age; (2) low alluvial fans and plains consisting of unconsolidated continental deposits of late Quaternary age which extend toward the center of the valley, in part from the dissected alluvial uplands and in part from the mountainous border along the east and west sides of the valley; (3) river flood plains, channels and natural levees, found principally along the channels, flood plains and natural levees of

the Sacramento River and its major eastern tributaries, all underlain by unconsolidated, well sorted river deposits of Recent age; (4) flood basins, which are low, nearly flat areas between the low alluvial fans and plains and the natural levees of the Sacramento River and its major tributaries, and underlain by unconsolidated, fine-grained slack-water deposits of Recent age; (5) Sacramento-San Joaquin Delta, a composite delta built by streams from the north, south, and east, characterized by intricate distributary channels, sloughs, natural levees and islands. The delta is underlain by unconsolidated sediments and organic soils of Recent age.

The total depth of sediments in parts of the valley may exceed 20,000 feet. On the average, only the upper 1,500 feet of sediments contains fresh ground water; the deeper sediments are either impervious or contain connate brines. The depth of the fresh water-salt water interface varies from area to area in the basin. Brines are encountered near the surface or at shallow depth over much of the Delta area, but are also encountered at 500 feet or less near Sutter Buttes and the area northwest of Nicolaus.

Much of the ground water is unconfined. However, confined to semiconfined aquifers exist in many areas of the basin. Depth to ground water varies from 0 to about 250 feet. Withdrawal capacity of wells varies from less than 200 gpm in the North Sacramento-Fair Oaks area to more than 1,700 gpm in the Colusa area. There is extensive development of ground water in the valley for irrigation, domestic, stock watering, industrial, and municipal needs.

Comprehensive surveys of the quality of ground water in the Sutter-Yuba area in 1948 and 1949 disclosed abnormally high chloride concentrations in that portion of the west-side zone of the Sutter-Yuba area south of the Oswald Road; they were found to occur also near the town of Robbins, some seven miles west of Nicolaus. Apparently deep seated connate brines underlying the area are migrating upward into the fresh water-bearing aquifers through permeable zones, and through improperly constructed and abandoned wells. The upward movement of the brines may be accelerated when the water table is lowered by heavy irrigation pumping.

As shown in Table 7, of 11 ground water units in the Sacramento Valley, there were net rises in the average water level from the spring of 1958 to the spring of 1959 of 2.7 feet in Tehama County and 5.7 feet in Glenn County, practically no change in the level in Solano County, and a net decline in the remaining 8 units. The decline in average water level ranged from 1.6 feet in Capay Valley in Yolo County to about 5.4 feet in Colusa County.

Hydrographs for a few selected wells in the valley portion of each of the Sacramento Valley counties are presented on Plate 5. As the hydrographs cover the period 1929-1959 or 1931-1959, fairly long-term trends in the water level fluctuations may be observed.

In Tehama, Butte, and Sutter Counties, little net change in water level over the 29-year period is shown by the hydrographs, although there were short-term fluctuations of considerable magnitude. Thus, in well 26N/3W-4K1, near Highway 99W, about 3 miles southeast of Red Bluff

in Tehama County, the water level in the spring of 1959 was approximately the same as the level in the spring of 1939. However, from spring 1958 to spring 1959 there was a net decline of 3 feet. Similarly, in well 13N/3E-14E1, about $1\frac{1}{2}$ miles west of the Feather River, 10 miles south of Yuba City in Sutter County, the 1941 and 1959 levels were approximately the same, but there was a net decline from 1941 to 1955 of 13 feet and an increase from 1955 to 1959 of 12 feet.

In Glenn, Yuba, Placer, Sacramento, Yolo, and Solano Counties, a definite long-term downward trend in the water levels is indicated by the hydrographs. In Yolo County a substantial net rise in the level from 1958 to 1959 may indicate a significant interruption of the downward trend. In Glenn County, in well 21N/2W-31E1, about 3 miles northeast of Artois, there was a net water level decline of 19 feet from 1942 to 1957. In Placer and Sacramento Counties the downward trend, as shown by the hydrographs, did not begin until about 1949, but the net decline from that year to 1959 was 37 feet in well 13N/5E-35M1, about 3 miles west of Highway 99E, 6 miles northwest of Lincoln in Placer County. The decline in well 8N/6E-20J1, near State Highway 16 about 3 miles southeast of Perkins in Sacramento County, was 19 feet during the same period.

In Colusa County, the hydrograph for well 17N/2W-11K1, about 1 mile west of the Sacramento River, 5 miles south of Princeton, shows that the depth to water remained practically constant at about 9 feet from 1931 to 1948, that from 1948 to 1953 there was an upward trend ending in a depth to water of less than a foot in May of 1953, and that since 1953 depths to water have ranged seasonally from about 2 to 5 feet.

San Joaquin Valley

The San Joaquin Valley (5-22.00) covers approximately the southern two-thirds of the Great Central Valley of California. It is a broad structural trough bounded on the east by the Sierra Nevada, on the south by the Tehachapi and San Emigdio Mountains, and on the west by the Coast Ranges. From Stockton on the north to Grapevine on the south, the valley is 250 miles long. Its width is small in comparison with its length, averaging about 40 miles, the greatest width being 55 miles. The valley floor, formed entirely by unconsolidated deposits of Quaternary age, contains approximately 10,000 square miles.

The northern half of the valley, the San Joaquin River Basin, drains northward by means of the San Joaquin River flowing to San Francisco Bay. The southern half of the valley, the Tulare Lake Basin, is a basin of essentially interior drainage tributary to evaporation sumps on the trough of the valley, chiefly Tulare and Buena Vista Lakes.

The surface of the valley is characterized by various types of physiography which include dissected uplands, low alluvial plains and fans river flood plains and channels, and overflow lands and lake bottoms. The dissected uplands fringe the valley along its mountain borders. The low alluvial plains and fans border the dissected uplands along their valleyward margins. The river flood plains and channels lie along the San Joaquin and Kings Rivers and along other major eastside streams. The overflow lands and lake bottoms include the historic beds of Tulare, Buena Vista, and Kern Lakes in the southern part of the valley, and the low-lying lands in the axial trough.

The San Joaquin Valley is filled with sediments varying in depth from a few feet to several thousands of feet. In general, the deepest sediments are of marine origin and contain highly saline connate waters. Overlying the marine sediments are continental deposits of late Tertiary and Quaternary age which form the surface of the valley. These deposits range in thickness from a few feet along the valley border to as much as 16,000 feet near the southern edge of the valley. For the most part they contain fresh water which they yield freely to wells; locally, however, they contain brackish and saline water of poor quality.

The continental deposits are largely of river origin, with the discontinuity and heterogeneity associated with this type of deposition. However, there are significant laterally continuous and homogeneous deposits of lake origin. A bed of lake-deposited diatomaceous clay 10 to 160 feet thick, apparently continuous, underlies approximately 5,000 square miles in the western and central parts of the valley. This deposit, known as the Corcoran clay, forms an effective barrier to the vertical movement of water.

Throughout much of the valley three distinct bodies of ground water occur. In downward succession they are: (1) a body of unconfined and semiconfined fresh water in alluvial deposits overlying the widespread Corcoran clay; (2) a body of fresh water confined beneath the clay bed in alluvial and lake deposits; and (3) a body of saline, connate water contained in marine sediments which underlies the fresh-water body throughout the valley. In much of the eastern and southern part of the valley which is not underlain by the Corcoran clay, the fresh-water body is in general unconfined to semiconfined.

In the northeastern part of the valley, in the area of the South San Joaquin, Modesto, Turlock, and Merced Irrigation Districts, surface water supplies are generally adequate for irrigation demand and the ground water reservoirs are maintained at near-full capacity. Seasonal fluctuations of water level occur as a general rise of the water table due to heavy applications of imported surface irrigation water in late spring and early summer and a decline in the fall as irrigation decreases. During the irrigation season, in some areas, control of the water table is accomplished by operation of shallow wells. This system of pumps also provides, to a degree, conjunctive operation of surface and underground storage.

In the east-central part of the valley, in the area served from the Kings River, the long-term water supply generally has been only partially in balance with the demand. Because the surface water supply decreases early in the summer, ground water is used to meet crop demands in late summer and fall. Owing to this pattern of irrigation, substantial seasonal fluctuations of water level occur as the ground water storage is replenished when surface water becomes available for recharge and later is depleted by pumping.

In the southeastern part of the valley, from Lindsay south to McFarland, surface water supplies in the past have been generally inadequate to meet irrigation requirements, and excessive demands on ground water supplies have been widespread. Water levels fluctuate rapidly in response to ground water withdrawals. The water table declines rapidly in late spring and summer and recovers as pumping ceases late in the fall. In some areas a year-by-year decline has occurred.

The alluvial fan of the Kern River receives a generally adequate supply of irrigation water from that river; accordingly, conditions in that area are generally similar to those in the east-central part of the valley. Seasonal fluctuations of water level register changes in ground water storage in response to variations in pumping and recharge, and long-term fluctuations reflect long-term variations in runoff of the Kern River.

The southern fringe of the valley, south of the Kern River, is an area of low stream flow and heavy ground water withdrawals for irrigation. Withdrawals greatly exceed the total replenishment, and water levels have declined steadily as ground water storage has been depleted. Seasonal fluctuations in water level reflect variations in pumping demand, but the long-term water level trend has been downward.

The west side of the valley is an area of generally deficient water supply. Western Fresno and Kings Counties are areas of very heavy overdraft on ground water supplies which has caused pressure levels in the confined aquifers to be drawn down rapidly. Although the seasonal fluctuations reflect variations in supply and use of ground water, the year-to-year trend in water level has been consistently downward.

Much of western Merced, Stanislaus, and San Joaquin Counties is irrigated by water diverted from the San Joaquin River. These areas are generally more than adequately watered by this surface supply. Accordingly, in the zone of unconfined ground water, water levels stand near the land surface, and both seasonal and long-term fluctuations are small.

Deliberate recharge of the ground water basin is being accomplished by a number of agencies by overirrigation and use of spreading grounds, ponds, channels, and ditches. During 1958 the amount of water deliberately recharged to the ground water supplies was limited by short surface water supplies. An incomplete canvass of recharge activity indicated that four local agencies spread 70,000 acre-feet of surface water for the purpose of recharging ground water supplies.

Current problems with respect to the quality of ground water in the San Joaquin Valley include: (1) rising water from local bodies of saline connate waters underlying an area in the vicinity of Stockton and the Sacramento-San Joaquin Delta west of Stockton, and (2) waters of poor mineral quality that exist in both fresh-water zones along the west side of the valley in Fresno and Kings Counties.

Forty-eight ground water units in the San Joaquin Valley are shown in Table 7. Of these units 26 showed an average rise of a foot or more from spring of 1958 to spring of 1959 and 13 showed a decline of a foot or more. Rises of less than a foot occurred in five units and declines of less than a foot in three units. In general, the significant rises occurred in units in the upper San Joaquin Valley that receive surface water from the Friant-Kern Canal. Significant declines occurred in the Edison-Maricopa and Mendota-Huron areas. Average water levels declined 11 feet in the Edison-Maricopa area and 41 feet in the Mendota-Huron area from the spring of 1958 to spring of 1959.

Hydrographs for some selected wells in most of the ground water units listed in Table 7 are presented on Plates 6 and 7, "Fluctuation Of Water Level In Wells In Northern San Joaquin Valley Central Valley Region"

and "Fluctuation Of Water Level In Wells In Southern San Joaquin Valley Central Valley Region", respectively. Many of these hydrographs cover periods beginning in the 1920's or 1930's and furnish a good basic long-term trends of water level fluctuations in various parts of the valley.

The marked downward trend of water levels in the area of San Joaquin County is illustrated on Plate 6 by the hydrograph for companion wells 2N/7E-1R2 and 2N/7E-12A1 in the Calaveras River Area, about 1 mile south of the Calaveras River, 2 miles east of Waterloo. The net decline in water level in these wells was 12 feet from 1926 to 1936, 18 feet from 1936 to 1951, and 12 feet from 1951 to 1957. In the fall of 1958 the water level was 3 feet below mean sea level and in the spring of 1959 it was 11 feet above mean sea level showing a rise of 2 feet since the spring of 1958.

In the eastern part of the valley from Chowchilla River to Kern River, the hydrographs for wells in districts that are served from the Madera and Friant-Kern Canals show, in general, a marked downward trend in water levels over the years prior to about 1951, which was the first year of substantial deliveries from Friant-Kern Canal. Subsequent to 1951, an upward trend is shown in most instances, especially where deliberate ground water recharge has been carried out and imported surface water has relieved the demand for ground water. An outstanding example of these conditions is given by the hydrograph on Plate 7 for well 21S/26E-10H1, about $3\frac{1}{2}$ miles northeast of Woodville, in the Lower Tule River Irrigation District. Although there was a net decline in water

level in this well of 78 feet from 1943 to 1950, the net rise in level from 1950 to 1956 was 80 feet--a more than complete recovery.

In other districts or ground water units in the eastern part of the Valley south of Chowchilla River where there has been no imported canal water, water levels have continued to drop, and in some instances the rate of recession has increased in recent years. This situation is well illustrated by the hydrographs on Plate 7 for well 27S/24E-35C1 in the Shafter-Wasco Irrigation District and well 32S/28E-23R1 in the Edison-Maricopa Area. In well 27S/24E-35C1, about $1\frac{1}{2}$ miles west and $3\frac{1}{2}$ miles south of Wasco, the water level in the spring of the year was successively lower each year subsequent to 1950, and the net drop in level from spring of 1950 to spring of 1959 was 63 feet. Similarly, the water level in well 32S/28E-23R1, about 3 miles east of Highway 99, 8 miles north of Wheeler Ridge, was successively lower in the spring of nearly every year from 1946 to 1958 with a net drop of 173 feet in twelve years. Companion well 12N/20W-31R1, located approximately 7 miles southwest of well 32S/28E-23R1, replaced it as a hydrograph well in 1958. There was a 1 foot net rise of the water level in this well from the spring of 1958 to the spring of 1959.

Perhaps the most striking illustration of the change in ground water levels over the years in the San Joaquin Valley is afforded by the ground water profiles of Plate 8, "Map of 19 Ground Water Units In San Joaquin Valley And Profiles Along Section A-A' Showing Ground Water Levels In 1921, 1951, 1958 & 1959", the hydrographs on Plate 9, "Fluctuation Of Average Water Level, 1921 To 1959, In 19 Ground Water Units In San Joaquin Valley", and the data in Table 9.

TABLE 9
CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1959
IN NINETEEN GROUND WATER UNITS IN THE SAN JOAQUIN VALLEY

Name of ground water unit	: Area : : in : : square : : miles :	: Irrigation and other : water districts included in : the ground water unit :	: Net change in : : water level : : 1921-51 ^{1/} : : in feet : :	: Net change in : : water level : : 1951-59 ^{2/} : : in feet :
Madera	342.6	Madera Irrigation District, Chowchilla Water District	-24.1 ^{2/}	+3.0
Fresno	404.0	Fresno Irrigation District	-22.4	-1.2
Consolidated	243.0	Consolidated Irrigation District	-19.0	+5.2
Fresno-Consolidated-Outside	700.1	Fresno Irrigation District, Consolidated Irrigation District	-23.2	+0.6
Outside only	53.1	—	—	-13.4
Centerville Bottoms	18.1	—	+1.0	+3.0
Alta	190.9	Alta Irrigation District	-17.2 ^{2/}	+17.2
Ivanhoe	17.4	Ivanhoe Irrigation District	-55.9	+25.2
Outside Ivanhoe	76.6	Part of Alta Irrigation District, Stone Corral Irrigation District	-28.5	+10.1
Mill Creek	128.2	—	-31.1	+1.6
Tulare	121.1	Tulare Irrigation District	-59.1	+21.6
Elk Bayou	67.6	—	-47.8	+12.3
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, Lindmore Irrigation District	-77.7	+57.2
Tule River	156.6	Porterville Irrigation District, most of Lower Tule River Irrigation District, part of Saucelito Irrigation District	-62.5	+38.3
Lower Deer Creek	162.2	Part of Lower Tule River Irrigation District, most of Saucelito Irrigation District, part of Delano-Earlimart Irrigation District	-106.7	+6.1
Middle Deer Creek	54.6	Terra Bella Irrigation District	-61.8	-5.0
Delano-Earlimart	140.0	Most of Delano-Earlimart Irrigation District, small part of South San Joaquin Municipal Utility District	-133.8	+41.3
McFarland-Shafter	306.0	South San Joaquin Municipal Utility District, North Kern Water Storage District, Shafter-Wasco Irrigation District	-99.0	-4.3
Rosedale	78.9	—	-36.3	-28.0
Arvin-Edison	205.2	Arvin-Edison Water Storage District	-69.9 ^{4/}	-16.6 ^{5/}

^{1/} 1951 was the first year of substantial deliveries from Friant-Kern Canal

^{2/} Fall of 1951 to spring of 1959

^{3/} 1929 to 1951

^{4/} 1941 to 1951

^{5/} Change from fall 1951 to spring 1958, no ground water contour drawn for the spring of 1959

State participation in the collection of water level measurements and other basic ground water data in the valley began as early as 1921. Since that date, the average ground water level in the fall or spring of each year has been computed for nineteen ground water units comprising irrigation districts, groups of districts, or selected areas extending from the Madera unit on the north to the Arvin-Edison unit on the south. Plate 8 shows the location and boundaries of the nineteen ground water units. The districts included in the various units are listed in Table 9. The hydrographs on Plate 9 illustrate the fluctuation of the average ground water level, from 1921 to 1959, in each of the nineteen units. An inspection of these hydrographs clearly shows the units in which the downward trend of the water levels changed to an upward trend coincident with substantial deliveries from Friant-Kern Canal about 1951. It also shows those units in which no change in the downward trend has occurred. Values of the net change in water level from 1921 to 1951 and 1951 to 1959 are given in Table 9 for each of the ground water units. The maximum changes in water level occurred in the Delano-Earlimart Unit where the level dropped 134 feet from 1921 to 1951 then rose 41 feet from 1951 to 1959, and in the Arvin-Edison Unit where the level dropped 70 feet from 1941 to 1951 with a further drop of 22 feet during the succeeding 7 years.

The profiles on Plate 8 show the elevation of the ground water level for the years 1921, 1951, 1957, and 1958 along a section passing through the nineteen ground water units extending from north of Chowchilla

River to south of Kern River. In the vicinity of Shafter, where conditions of overdraft have prevailed for many years, the profiles show successively lower elevations of the water level in 1951, 1958, and 1959. In the vicinity of Delano, however, where recharge has alleviated the overdraft, the lowest elevation is shown by the 1951 profile. The 1959 profile shows that nearly one-half of the 145-foot drop in water level from 1921 to 1951 had been recovered.

The effect of the long continued heavy overdraft in the southwestern part of the valley and in the area of western Kings and Fresno Counties is markedly shown by the hydrographs on Plate 7 for wells in the Semitropic Water Storage District and the Mendota-Huron Area. In well 27S/23E-6L1, about 12 miles west and 1 mile north of Wasco in the Semitropic Water Storage District, the water level dropped 97 feet from 1942 to 1958. The quite uniform rate of decline was interrupted by a net recovery of the water level of about 25 feet from 1949 to 1953, but since 1953 the rate of decline has been about the same as it was prior to 1949. In well 21S/18E-28M2, in the Mendota-Huron Area, about 9 miles south and 4 miles east of Huron, the decline in water level from 1948 to 1959 was 113 feet. The decline was temporarily interrupted by a recovery of about 6 feet from 1955 to 1956. From the spring of 1956 to the spring of 1959 the water level declined 28 feet.

In the Delta-Mendota area on the west side of the valley, water levels in the unconfined or shallow zone of ground water generally

are within 10 to 25 feet of the land surface, and fluctuations are small. These conditions are illustrated by the hydrograph on Plate 6 for well 3S/6E-18N1, about 4 miles northwest of Vernalis. From 1942 to 1955, the seasonal high level in this well ranged from about 14 to 18 feet below the land surface. However, in 1956, 1957, and 1958, it rose to about 12 feet below the land surface. As indicated by the hydrograph for well 13S/13E-15R1, about 6 miles southwest of Firebaugh, there was a downward trend in the water levels in the confined or deep zone of ground water from 1947 to 1954 and an upward trend from 1954 to 1958. In the case of well 13S/13E-15R1, the net drop from 1947 to 1954 was 36 feet and the net rise from 1954 to 1958 was 56 feet. During the period 1947-1959, the highest observed level was 29 feet above sea level in the spring of 1958; the lowest observed level was 53 feet below sea level in the fall of 1954.

APPENDIX A

DESCRIPTION OF SELECTED WATER WELLS
IN CENTRAL AND NORTHERN CALIFORNIA

DESCRIPTION OF SELECTED WATER WELLS
IN CENTRAL AND NORTHERN CALIFORNIA

Explanation of heading and symbols used in the columns of the appendix table.

State well number--The state well number is the number that has been assigned to a well in accordance with the numbering system originated by the United States Geological Survey and adopted by the Department of Water Resources. The system, which is referred to the township, range, and section subdivision of the Public Land Survey, is explained in Chapter I of the text. Because the designation of both State and Geological Survey well numbers is based on the same system, a well for which data are reported by either agency will, in most cases, have a common number and the number is not repeated in the "Agency well number" column. Exceptions occur where the Department and the Geological Survey differ as to the location of the well within the section subdivision, and in these cases the Geological Survey number is shown in the "Agency well number" column.

Agency well number--The agency well number is the number assigned by any agency other than the Department of Water Resources in accordance with the numbering system used by that agency.

Agency supplying number--The numbers in this column are the code numbers for the agencies supplying an agency well number different from the state well number. The agency code consists of a five digit number the first of which is a region number. Thus, 32100 refers to

agency 2100 in Region 3. Because of the limitations of punch-card space, the agency code has been shown as a four digit number without the region number. Therefore, the four digit agency code should always be referred to the region in which the well is located.

The first digit of the four digit agency code designates the type of well numbering system used by the agency, as follows:

<u>Code</u>	<u>Well numbering system</u>
1	Location numbers
2	Monterey County Flood Control and Water Conservation District or Santa Clara Valley Water Conservation District system
3	Serial numbers
4	Local numbers
5	State or USGS system
6	USBR system
7	South San Joaquin Irrigation District system

The last three digits of the agency code are numbers that designate, within specified serial limits, the type of agency from which the data were obtained, as follows:

<u>Code</u>	<u>Type of agency</u>
000-049	Federal
050-099	State
100-199	County
200-399	Municipal
400-699	District--Water, Irrigation, Conservation, etc.
700-999	Private

In the Central Valley Region, the agency code for Districts is further broken down to the geographic areas, as follows:

<u>Code</u>	<u>Area in Central Valley Region</u>
400-499	Oregon border to American River
500-599	American River to San Joaquin River
600-699	San Joaquin River to Tehachapi Mountains

The agencies and code numbers assigned to them in each of the Regions are listed in the following tabulation:

<u>Agency Code</u>	<u>Agency</u>
<u>North Coastal Region</u>	
5000	U. S. Geological Survey
5001	U. S. Bureau of Reclamation
5050	Department of Water Resources
<u>San Francisco Bay Region</u>	
2400	Santa Clara Valley Water Conservation District
5000	U. S. Geological Survey
5050	Department of Water Resources
5100	Alameda County Flood Control and Water Conservation District
5500	Alameda County Water District
<u>Central Coastal Region</u>	
2100	Monterey County Flood Control and Water Conservation District
2400	Santa Clara Valley Water Conservation District
5050	Department of Water Resources
5101	San Benito County
5400	South Santa Clara Valley Water Conservation District

Agency Code	:	Agency
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Central Valley Region

1201		East Bay Municipal Utility District
1700		Kern County Land Company
3200		City of Fresno
3520		Oakdale Irrigation District
3521		Modesto Irrigation District
3524		Turlock Irrigation District
3525		Merced Irrigation District
3527		El Nido Irrigation District
3631		Fresno Irrigation District
3636		Consolidated Irrigation District
4637		Alta Irrigation District
4640		Buena Vista Water Storage District
4701		California Water Service Company
5000		U. S. Geological Survey
5001		U. S. Bureau of Reclamation
5050		Department of Water Resources
5100		Tehama County
5101		Colusa County
5102		Sutter County
5103		Yuba County
5104		Yolo County
6001		U. S. Bureau of Reclamation
6613		Delano-Earlimart Irrigation District
7518		South San Joaquin Irrigation District

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
NORTH COASTAL REGION									
SMITH RIVER PLAIN					1-01.00				
16N/01W-02J01	H		1	36				53	
16N/01W-17K01	H			40				53	
16N/01W-22Q01	H		1	22				52	
16N/01W-22Q02	H		1	33				58	
17N/01W-02P01	H		1	26				52	
17N/01W-15M02	H			30				53	
18N/01W-26P01	H		7	28				52	
BUTTE VALLEY					1-03.00				
45N/02W-03A01	M		2	270	1			51	
46N/01E-06N01	M		2	200	1			52	
46N/02W-25R01	M		2	94	1			52	
46N/02W-25R02	M		2	116	2	1		52	
47N/01W-14B01	M		8	50	1			51	
47N/01W-27B01	M		8	40	1			51	
47N/02W-21D01	M		8	81	1			51	
48N/01W-26N01	M			375				53	
SHASTA VALLEY					1-04.00				
42N/05W-20J01	M		1	40		4		53	
42N/06W-10J01	M		1	110	1	2		53	
43N/06W-22A01	M		2	100	1			52	
44N/05W-34H01	M		2	96	1	2		52	
45N/05W-29B01	M		1	25		2		53	
45N/06W-19E01	M		1	425		1		53	
SCOTT RIVER VALLEY					1-05.00				
42N/09W-02G01	M		2	76	1			53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SCOTT RIVER VALLEY				1-05.00					
42N/09W-02N01	M		9	28	1			53	
42N/09W-08C03	M		1	66				60	
42N/09W-27N01	M		1	19				53	
43N/09W-02K02	M		1	19				53	
43N/09W-24F01	M		2	205	1	1		53	
44N/09W-28P01	M		1	65	1			53	
44N/09W-34G01	M			100	1			53	
MAD RIVER VALLEY				1-08.00					
06N/01E-06H01	H			27				51	
06N/01E-19Q01	H		1	108	1			51	
06N/01E-29P01	H		4	46				52	
EUREKA PLAIN				1-09.00					
05N/01E-20Q01	H		1	157	1	1		51	
EEL RIVER VALLEY				1-10.00					
02N/01W-08B01	H		2	40				51	
03N/01W-18D01	H		1	24				51	
03N/01W-34J01	H		0	496	1	1		51	
03N/02W-26R01	H		2	30				51	
ROUND VALLEY				1-11.00					
22N/12W-04B01	M		2	200	1			51	
22N/12W-18N01	M		9	452				52	
22N/12W-19M01	M		1	303	1	1		51	
22N/13W-01E01	M		4	101		1		57	
23N/12W-31E01	M		2	45	1			57	
23N/12W-31N01	M		2	200	1			51	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
LAYTONVILLE VALLEY				1-12.00					
21N/14W-30M01	M		7	23	1			52	
21N/15W-11R02	M			33				52	
21N/15W-11R03	M		1	44				52	59
21N/15W-11R04	M		1	76				59	
21N/15W-12M01	M		1	20				59	
21N/15W-24A01	M			28		1		52	
22N/15W-22E01	M		7	78		1		52	
LITTLE LAKE VALLEY				1-13.00					
18N/13W-07C01	M		1	214				58	
18N/13W-08L01	M		1	19				53	
18N/13W-08L02	M		2	97	1	1		46	
18N/13W-17J01	M		1	40				58	
18N/13W-18E01	M		4	493				58	
18N/13W-19B01	M		2	454	1			54	
POTTER VALLEY				1-14.00					
17N/11W-18J01	M		1	36				51	
17N/11W-29P01	M		1	104				51	
17N/11W-32J01	M		1	12				51	
UKIAH VALLEY				1-15.00					
14N/12W-11N01	M		1	30		1		51	
15N/12W-08L01	M		1	62				51	
15N/12W-21M01	M		7	46				51	
15N/12W-28R02	M		2	35				51	
15N/12W-35M01	M		2	190				51	
SANEL VALLEY				1-16.00					
13N/11W-18E01	M		7	52				53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SANEL VALLEY				1-16.00					
13N/11W-19P01	M		2	44				53	
13N/11W-20G01	M		1	135				53	
13N/11W-29D01	M		1	5				53	
ALEXANDER VALLEY				1-17.00					
10N/09W-18B01	M		2	180	1	1		50	
10N/09W-26L02	M		1	40		1		50	
10N/09W-33C01	M	10N/09W 33B01	5000	1	20			50	
11N/10W-08P01	M		1	30	1			51	
11N/10W-17P02	M		2	36				53	
11N/10W-19F02	M		1	334				52	
SANTA ROSA VALLEY				1-18.00					
SANTA ROSA AREA				1-18.01					
06N/07W-30M01	M		7	104	1	1		47	
06N/08W-07P02	M		1	120				45	
06N/08W-13R01	M		1	250				42	
06N/08W-15J01	M			61				42	
07N/07W-06R01	M		7	133	2			51	
07N/08W-20K01	M		2	626				49	
07N/08W-31C01	M			320				50	
07N/09W-35D02	M		1	167	1	1		50	
08N/08W-19E01	M		2	142	1			49	
08N/09W-36N01	M			89				49	
HEALDSBURG AREA				1-18.02					
08N/09W-03P01	M		1	110	2			50	
08N/09W-22L01	M		1	44	1			51	
09N/09W-28N01	M		2	53				53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
HEALDSBURG AREA				1-18.02					
09N/09W-34N01 M			9	198				49	
10N/10W-35Q01 M			2	285				54	
LOWER RUSSIAN RIVER VALLEY				1-98.00					
07N/10W-06N01 M			3	120	1			58	
07N/10W-07D01 M			3	120				58	
07N/11W-14E01 M			1	47		1		51	
07N/11W-16M01 M			2	40				58	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End

SAN FRANCISCO BAY REGION

PETALUMA VALLEY				2-01.00					
03N/06W-01Q01	M		1	225	1			50	
05N/07W-20B01	M		1	600	1	1		49	
05N/07W-20B02	M		2	158				53	
05N/07W-21H01	M		1	92				59	
05N/07W-26R01	M		1	428				50	
05N/07W-35K01	M		2	78	6			49	
NAPA-SONOMA VALLEY				2-02.00					
NAPA VALLEY				2-02.01					
04N/04W-13E01	M		9	98	1			30	
05N/04W-11M01	M		1	59	1			50	
06N/04W-17A01	M		2	250	1			49	
07N/05W-09Q01	M		2	333	1			49	
07N/05W-09Q02	M	07N/05W 16B02	5000	232				49	
07N/05W-16B02	M		0	232				58	
07N/05W-23D02	M		2	129	1			49	
08N/06W-10Q01	M		9	184	1	1		49	
SONOMA VALLEY				2-02.02					
05N/05W-08Q01	M		2	500				50	
05N/05W-17C01	M		1	70				50	
05N/05W-28N01	M		2	130	1	1		46	
05N/05W-29N01	M		2	100				51	
05N/06W-14B01	M		0	116	1			58	
05N/06W-14C01	M	05N/06W 14B01	5000	2	116			50	
SUISUN-FAIRFIELD VALLEY				2-03.00					
04N/02W-06A01	M			39				20	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SUISUN-FAIRFIELD VALLEY				2-03.00					
04N/02W-09A01	M			37				48	
04N/03W-01D01	M		1	67				18	
05N/01E-36A01	M		9	38				29	
05N/01W-07E01	M		9	33				48	
05N/01W-28P01	M		1	40		1		49	
05N/02W-17D02	M		2	90				48	
05N/02W-27J02	M			60				49	
05N/02W-29R01	M		2	120				49	
05N/02W-30J01	M		2	220				49	
05N/03W-26F02	M		1	282				18	
YGNACIO VALLEY				2-06.00					
01N/01W-07K01	M		1			1		58	
01N/02W-11N01	M		1	81	2	1		58	
02N/02W-27R01	M		1	131		1		58	
02N/02W-36E01	M		1	40		1		58	
SANTA CLARA VALLEY				2-09.00					
SOUTH ALAMEDA COUNTY UPR AQUIFER				2-09.01					
03S/02W-08R05	M		0	85		1		51	
03S/03W-24Q02	M		9	80		1		49	
04S/01W-22P05	M		2	180				48	
04S/01W-29C04	M			145		1		50	
04S/02W-02Q01	M		2	200		1		50	
04S/02W-24Q02	M		2					49	
05S/01W-09Q01	M		9	60		1		50	
SOUTH ALAMEDA COUNTY LWR AQUIFER				2-09.01					
02S/03W-36R01	M	02S/03W 36Q03	5100	2	601	2	1	59	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End

SOUTH ALAMEDA COUNTY LWR AQUIFER

2-09.01

03S/02W-07D01 M			2					49
03S/02W-19A02 M			0	400				50
03S/03W-24J01 M			7	511	1			49
04S/01W-18G01 M			4	670				58
04S/01W-30H04 M				207				50
04S/02W-13C02 M			2	180	1			49
04S/02W-35R02 M			7	224	2	1		58
04S/02W-36K01 M				233	1			49
05S/01W-02C01 M			2	500	1			
05S/01W-04F01 M			0	97				59
05S/01W-09M01 M			2	297	1			49
05S/02W-02B01 M			1	265	1			50

NORTH SANTA CLARA COUNTY

2-09.02

06S/01E-07E01 M	05C/059	2400		525				36
06S/01E-21R01 M	08D/342 A	2400		560	2			51
06S/01E-23P02 M	08C/127	2400		295				36
06S/01E-30M01 M	07E/084	2400				1		36
06S/01W-10P02 M				410	1			58
06S/01W-19K03 M	04F/322	2400						39
06S/01W-23E01 M				425				58
06S/01W-32Q01 M	05G/056	2400		536	1			36
06S/02W-16R01 M	02G/005	2400						36
06S/02W-25C01 M	04F/030	2400		500				36
06S/02W-35C01 M	03G/020	2400		480				36
07S/01E-01K01 M	09D/180 A	2400		400				36
07S/01E-08L01 M	08F/274	2400		235				36

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
NORTH SANTA CLARA COUNTY				2-09.02					
07S/01E-09D02 M	08E/120	5000				1		36	
07S/01E-16C05 M				908				58	
07S/01E-31A02 M	09G/148	2400						36	
07S/01E-31R01 M	09G/147 A	2400		400		1		50	
07S/02E-07P01 M	10D/403	2400		525				57	
07S/02E-17H01 M	11D/304	2400		400				39	
07S/02E-33C01 M	12E/398	2400		61				55	
07S/01W-13K01 M	08F/108	2400		200		1		36	
07S/01W-13K02 M				199				58	
07S/01W-27M01 M	07H/102 A	2400		400				50	
07S/01W-35C01 M	08H/117	2400		430				36	
07S/02W-03Q01 M	04H/023 A	2400		404				36	
07S/02W-04B01 M	03H/013	2400		450				36	
07S/02W-22A01 M	04I/037	2400	8					36	
08S/01E-07H02 M	09H/166 A	2400		350				54	
08S/01E-13H01 M	12G/257	2400		110				36	
08S/01E-21D01 M	10H/198	2400		60				36	
08S/02E-20F03 M	13G/297	2400						40	
08S/02E-22D01 M	13F/233	2400				1		36	
08S/01W-15B01 M	08I/129	2400		64		1		36	
09S/02E-01J01 M	15G/238 B	2400		135				36	
09S/02E-01M01 M	15G/279	2400		114				37	
LIVERMORE VALLEY				2-10.00					
02S/02E-25N01 M	22E/003 D	5100						48	
02S/01W-26C01 M			2	360				48	
03S/01E-02E01 M								48	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
LIVERMORE VALLEY				2-10.00					
03S/01E-11H01 M	31E/136	5100	7	303	1			49	
03S/01E-18G03 M			2		1			48	
03S/02E-02R01 M	32E/014	5100	2	437	1	1		48	
03S/02E-10H01 M	32E/012	5100	2	376	1			48	
HALF MOON BAY TERRACE				2-22.00					
05S/05W-18P01 M			1					53	
05S/05W-20L01 M								53	
05S/05W-29N01 M			2		1			53	
05S/06W-11Q01 M			2		1			53	
06S/05W-08B01 M			2	85				53	
SAN GREGORIO VALLEY				2-24.00					
07S/05W-13E01 M			1	45				58	
07S/05W-15C01 M			2	85				58	
07S/05W-15E01 M			7					53	
PESCADERO VALLEY				2-26.00					
08S/05W-09H01 M			2					53	
08S/05W-11P01 M			1					53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
CENTRAL COASTAL REGION									
SOQUEL VALLEY					3-01.00				
11S/01W-09L01	M							48	
11S/01W-15H01	M		1					48	
11S/01W-21H01	M							48	
WEST SANTA CRUZ TERRACE					3-26.00				
11S/02W-20C01	M		2	500				53	
11S/02W-22K01	M		2					54	
PAJARO VALLEY					3-02.00				
12S/01E-24G01	M		2	200	1			47	
12S/02E-16J01	M		2					47	
12S/02E-17R01	M		2		1			47	
12S/02E-31K01	M		2	319	1			47	
13S/02E-05B01	M		1	225	2			58	
13S/02E-06R01	M		2		1	1		47	
GILROY-HOLLISTER VALLEY					3-03.00				
SOUTH SANTA CLARA COUNTY					3-03.01				
09S/03E-27C02	M	18G/374	2400	300				43	
09S/03E-29B01	M			170				48	
10S/03E-13R01	M		7		1			58	
10S/03E-34L01	M		2		1	1		48	
10S/04E-18G02	M		7	184	1			48	
10S/04E-35E01	M		2	447	1			48	
11S/03E-01B01	M		2		1			57	
11S/04E-03F01	M							48	
11S/04E-22M01	M		2					57	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SAN BENITO COUNTY				3-03.02					
11S/05E-13D01 M			2	125			2	37	
11S/05E-26N02 M			1	232	1			37	
12S/04E-20C01 M			2	736	1			49	
12S/05E-12F01 M				88				51	
12S/05E-28N01 M			2	216	1		1	24	
12S/05E-33A01 M			2	150				24	
13S/05E-11Q01 M				44				24	
13S/06E-19C01 M			2	300	1			49	
SALINAS VALLEY				3-04.00					
PRESSURE AREA 180 FOOT AQUIFER				3-04.01					
14S/02E-03C01 M	02B/001	2100	2					31	
14S/02E-15L01 M	02C/025 A	2100	2	176		1		16	
15S/02E-01Q01 M	02D/023	2100	7	196	1	1		31	
15S/03E-16M01 M	03D/040	2100	2			1		31	
15S/04E-33A01 M	04D/056	2100	2	279	1			31	
16S/04E-11D01 M	04E/030 D	2100	1					31	
PRESSURE AREA 400 FOOT AQUIFER				3-04.01					
13S/02E-31Q01 M	01B/011 A	2100	2	500	1	1		31	
14S/03E-18J01 M	02C/119	2100	2	513	1			31	
EAST SIDE AREA				3-04.02					
14S/03E-15K01 M	03C/020	2100	2	177	1			31	
16S/05E-17R01 M	05E/026	2100	2	299		1		16	
FOREBAY AREA				3-04.03					
17S/05E-11C01 M	06F/017	2100	2	238	1			31	
18S/07E-18P01 M	07G/042	2100	2	175				31	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
ARROYO SECO CONE				3-04.04					
17S/06E-32E01 M	06G/011	2100	2	129				31	
18S/06E-15M01 M	07G/029	2100	2	288	1			31	
19S/06E-11C01 M	07H/036	2100	2	320				44	
UPPER VALLEY AREA				3-04.05					
19S/07E-10P01 M	08H/031	2100	2	245				31	
20S/08E-05R01 M	09I/004	2100	2	372				16	
21S/09E-06K01 M	10J/001	2100	2					16	
21S/10E-32N01 M	11K/002	2100	2					31	
22S/10E-16K01 M	12K/003	2100	2			1		31	
CARMEL VALLEY				3-07.00					
16S/01E-21A01 M			2			1		52	
16S/01E-25B01 M			7	60		1	1	52	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End

CENTRAL VALLEY REGION

REDDING BASIN

5-06.00

29N/03W-01A01 M			1	200				56
29N/03W-04R01 M			1	80				55
29N/04W-11G04 M			3	520	2	1		57
29N/04W-30L01 M			2	362				55
29N/05W-11A02 M			2	360				57
30N/03W-06J01 M			2	126				55
30N/03W-17N03 M			2	36	2			55
30N/04W-02J02 M			2	196				55
30N/04W-06B03 M			1	312				56
30N/04W-14C02 M				236	2			55
30N/05W-03Q01 M				138				56
30N/05W-15R01 M				500		1		56
31N/03W-12E01 M			7	230		1		55
31N/03W-18B01 M			2	210				55
31N/03W-29N01 M			2	130	2			55
31N/04W-11C03 M			2	200				57
31N/04W-15K01 M			2	352				56
31N/04W-21M01 M			2	32		1		56
32N/03W-32E02 M				500		1		55
32N/04W-25R01 M			1	136		1		56
32N/04W-34P01 M			1	270		1		56

UPPER LAKE VALLEY

5-13.00

15N/09W-07G01 M			1	70				48
15N/10W-03D01 M			1	90				48
16N/09W-31Q01 M			2					48

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SCOTT VALLEY				5-14.00					
14N/10W-10Q01	M		7					48	
14N/10W-14E02	M		2	104				48	
14N/10W-14F01	M		2		1			58	
14N/10W-22A01	M		2	53				48	
KELSEYVILLE VALLEY				5-15.00					
13N/09W-02C02	M		2					48	
13N/09W-14D01	M		2					48	
13N/09W-20P01	M		1	101	1			48	
14N/09W-32M01	M		2	70		1		48	
14N/09W-33K01	M		2			1		48	
LONG VALLEY				5-31.00					
14N/07W-06F01	M		2	90				49	
HIGH VALLEY				5-16.00					
14N/07W-19M01	M			28				50	
14N/07W-19M02	M		1					59	
14N/08W-24J01	M		9	94				50	
BURNS VALLEY				5-17.00					
13N/07W-15Q01	M			172				49	
13N/07W-28R01	M			40				50	
LOWER LAKE AREA				5-30.00					
12N/07W-03J01	M		2	185				49	
12N/07W-14C02	M		1	20				49	
12N/07W-23B01	M			45				50	
COYOTE VALLEY				5-18.00					
11N/06W-19G01	M		1	50				49	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
COLLAYOMI VALLEY				5-19.00					
10N/07W-01G01	M		1	32				49	
10N/07W-03A02	M		3	108				59	
11N/07W-33L01	M			89				49	
11N/07W-35E01	M		1	151				50	
SACRAMENTO VALLEY				5-21.00					
TEHAMA COUNTY				5-21.01					
23N/02W-22N02	M		2	250		1		29	
23N/03W-05G01	M		1			1		46	
23N/03W-13C02	M		7	62	1			48	
24N/01W-21M01	M		1	47				29	
24N/02W-02N01	M		1	215				29	
24N/02W-28G01	M		8	38				47	
24N/03W-03N02	M		2	300	1			48	
24N/03W-35P03	M		2	80				29	
24N/04W-02N01	M		1	110				46	
25N/01W-31M01	M		1	98				29	
25N/02W-18D01	M		8	21				47	
25N/03W-09A01	M		2	823				52	
25N/03W-22L01	M		2	323				27	
26N/02W-14G01	M		2	152			1	48	
26N/02W-34K01	M		1					29	
26N/03W-04K01	M			149				29	
26N/03W-21P01	M		2	247	1		1	52	
26N/03W-34P01	M		2	315			1	21	
27N/02W-29E01	M			530				46	
27N/02W-31P01	M		1	34		1		29	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
TEHAMA COUNTY				5-21.01					
27N/03W-32A04	M							46	
GLENN COUNTY				5-21.02					
18N/01W-03J01	M			24				42	
18N/03W-10L01	M			65	1	1		29	
18N/04W-11B01	M			71		1		37	
19N/01E-08R01	M		9	20				43	
19N/01W-14K01	M			20				29	
19N/02W-13J01	M			87				29	
19N/02W-19D01	M			100				41	
19N/03W-18D01	M			63				29	
19N/04W-35C01	M		1					55	
20N/02W-07A01	M		8	14	1			42	
20N/02W-27J01	M		1	80				41	
20N/03W-29R01	M			50				33	
21N/01W-17F01	M			27		1		29	
21N/01W-31E01	M		1	62				29	
21N/02W-02B01	M		2	100				23	
21N/02W-31E01	M			160				29	
21N/03W-02B01	M		2	107				48	
21N/03W-06Q01	M			67				29	
21N/04W-12B01	M			79				51	
22N/02W-16C01	M		1					29	
22N/02W-31Q01	M		9					46	
22N/03W-05F01	M		1	66				46	
22N/03W-21F01	M		1	81				29	
22N/04W-25B01	M		2	334	1	1		51	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
BUTTE COUNTY				5-21-03					
17N/02E-08D01 M			1	24				29	
18N/01E-33N02 M								30	
18N/01E-33N03 M			0	60				47	
18N/02E-16F01 M			9	96				47	
18N/03E-16E02 M					1			41	
18N/04E-28L01 M			2	190			1	47	
19N/02E-10B09 M			8	20				53	
19N/03E-16P01 M			2					47	
19N/03E-19M01 M			7		1			53	
19N/03E-30R01 M			2	275			1	48	
20N/01E-27P01 M			1					48	
20N/02E-29R01 M			1	25	2	1		29	
20N/03E-32D01 M			1					29	
20N/01W-15A01 M			9	56				29	
21N/01E-33A01 M			1	110				29	
21N/02E-08E01 M				33	1			37	
21N/02E-26Q01 M				46				29	
21N/01W-01E01 M			1					51	
21N/01W-26K01 M			1	51				29	
22N/01E-21E01 M			1					29	
22N/02E-17E01 M			2	200				53	
22N/01W-08R01 M			9	52				49	
23N/01E-32P01 M					1			48	
23N/01W-10J02 M				42				47	
23N/01W-33A01 M			2		1		1	48	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
COLUSA COUNTY				5-21.04					
13N/01W-34P01	M		8	57				41	
13N/02W-21B01	M		2	725	1			50	
13N/02W-22H01	M		1	150				48	
13N/02W-34R01	M		9					50	
14N/01W-32R01	M		8	20	1			41	
14N/02W-16N02	M		2	308	1		1	57	
14N/03W-12F01	M			32				49	
15N/01W-17N01	M		8	19				41	
15N/02W-18N01	M		8	19	1			41	
15N/03W-32B01	M		9	75				53	
16N/01W-05K01	M		1	84				29	
16N/01W-20F01	M		1		1			29	
16N/02W-26L01	M			111	1	1		39	
16N/03W-01A01	M		8	19	1			41	
16N/03W-35N02	M		1	500				57	
16N/04W-11A01	M		2	335				57	
16N/04W-35J01	M		9	85				57	
17N/01W-06R01	M		2	271	1			58	
17N/02W-06E01	M			206				53	
17N/02W-11K01	M		1			1		29	
17N/03W-10C01	M		1					41	
17N/04W-34G01	M							48	
18N/01W-18Q01	M		8	17	1			41	
18N/02W-15N01	M		8	38				41	
SUTTER COUNTY				5-21.05					
11N/03E-15C01	M		2	108				47	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SUTTER COUNTY				5-21.05					
11N/04E-01M01 M			2					29	
11N/04E-33J01 M			2		1			48	
12N/01E-01A01 M			1	75				41	
12N/02E-20P01 M			2	500	2	1		57	
12N/02E-23P01 M			1					29	
12N/03E-23N01 M			2					47	
12N/04E-03R01 M								56	
12N/04E-33L01 M			1	28				29	
13N/01E-01J01 M			1			1		29	
13N/02E-04J01 M			8	12	1			41	
13N/02E-34M01 M			4			1		57	
13N/03E-14E01 M			2	107				29	
13N/03E-16A01 M			2			1		47	
13N/04E-22G01 M			2					47	
13N/05E-07K01 M			2	420	2			47	
14N/01E-08A06 M			1	106				29	
14N/01E-14G01 M			2			1		57	
14N/02E-13R01 M			1	86		1		47	
14N/03E-05C01 M			2	288	1	1		47	
14N/03E-31B01 M			2			1		47	
15N/01E-13A01 M			2	260	1			47	
15N/01E-14F01 M			1	182		1		29	
15N/02E-24B01 M			2					47	
15N/02E-35D01 M			2	283	1	1		47	
15N/03E-05D02 M			2	200	1			47	
15N/03E-34L01 M			2	210		1		47	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SUTTER COUNTY				5-21.05					
15N/01W-25A01	M		1	30	1			29	
16N/01E-31H01	M			36				32	
16N/02E-26Q01	M		2	60				57	
16N/03E-33J02	M		2		2			48	
17N/01E-25J01	M		2					48	
17N/02E-34A01	M							47	
17N/03E-30N01	M		2					47	
YUBA COUNTY				5-21.06					
13N/04E-07E01	M		2			1		47	
14N/03E-24B01	M		2				1	47	
14N/04E-13C01	M		2	487	1	1		48	
14N/04E-18C01	M		2	190	1			47	
14N/05E-06B01	M		2	210			1	48	
14N/05E-33Q01	M		2	111				29	
15N/04E-04R01	M		2		1			47	
15N/04E-20F01	M		2	205	1			47	
15N/05E-19N01	M		1				1	52	
16N/03E-26F01	M		2			1		47	
16N/04E-08A01	M		2					47	
16N/04E-34Q01	M		1	30				47	
17N/03E-35H02	M		2	165	1			47	
17N/04E-27F01	M		2					47	
PLACER COUNTY				5-21.07					
11N/05E-34R03	M		2					53	
11N/06E-11R01	M							53	
12N/05E-23H01	M		1	820		1		48	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
PLACER COUNTY				5-21.07					
13N/05E-34R03			M	70			1	57	
13N/05E-35M01			M	2	67			31	
13N/06E-09N02			M		52			47	
SACRAMENTO COUNTY				5-21.08					
05N/05E-03F01			M	9	68		1	29	
05N/06E-36R01			M	2				48	
05N/07E-27D01			M		45			29	
06N/05E-17E01			M	2	200		1	52	
06N/06E-20D01			M	1	154			55	
06N/07E-28E01			M	2				52	
06N/08E-15J01			M	1	150			53	
07N/05E-05L01			M	2	180			49	
07N/05E-32K01			M		45			34	
07N/06E-05C01			M	1	66			29	
07N/06E-06C01			M	7	210			50	
07N/06E-22R01			M	1	97		1	50	
07N/07E-27P01			M	1	99		1	29	
07N/08E-13A01			M	9	40			53	
08N/04E-27P01			M	2				53	
08N/05E-03N01			M		34			53	
08N/05E-21H02			M	1	72	2	1	53	
08N/06E-05L01			M	2			1	29	
08N/06E-11C01			M	1	531	1	1	47	
08N/06E-20J01			M	2			1	29	
08N/07E-31H01			M	9				50	
08N/08E-29K01			M	1	256			53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SACRAMENTO COUNTY				5-21.08					
09N/04E-01R01			M	1	82	1	1	53	
09N/05E-25J01	09N/05E 25A	6001	M	1	400	2	1	50	
09N/05E-29A01			M	1	94			48	
09N/06E-17F01			M		105			29	58
09N/07E-12L01			M		100			53	
09N/07E-16Q01			M	4	620	2	1	29	
10N/04E-19D01	10N/04E 19	6001	M	8	63			42	
YOLO COUNTY				5-21.09					
06N/03E-15C01			M	1				53	
06N/03E-23P01			M					53	
07N/03E-04Q01			M	2	96			53	
08N/01E-07B02			M	9	115	1		52	
08N/01E-15B01			M	9	116			31	
08N/03E-19D01			M	2	308			49	
08N/03E-31N01			M		98	1		51	
08N/01W-16R02			M	2	174			48	
09N/01E-08D01			M					33	
09N/01E-22B01			M	2	180			51	
09N/02E-14N01			M		130	1		52	
09N/03E-07D01			M	1	177	1	1	52	
09N/03E-30G01			M					49	
09N/01W-35M01			M	2	295	1		52	
10N/01E-14K01			M	2	77	1		57	
10N/01E-33A01			M					31	
10N/02E-02N01			M		355	1		35	
10N/02E-18M01			M	1	64	1		31	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
YOLO COUNTY				5-21.09					
10N/02E-21M02	M		2	50				31	
10N/02E-26Q01	M		2	385	1	1	1	52	
10N/01W-09E01	M		1					31	
10N/01W-29M01	M		1	80				31	
11N/01E-18B01	M		2	140				56	
11N/01E-25R01	M				1			56	
11N/02E-18F02	M		2					56	
11N/02W-26J01	M		2	200	1			55	
12N/01W-05M01	M		2	677	1			53	
12N/01W-36K01	M			580	1			56	
CAPAY VALLEY				5-21.10					
10N/02W-16L01	M		1	20		1		53	
11N/03W-04P01	M		2	316		1		55	
11N/03W-26M03	M		2	60		1		53	
12N/03W-19H01	M		1					53	
SOLANO COUNTY				5-21.11					
05N/02E-36N01	M		4					47	
06N/01E-24L01	M		2	108		1		48	
06N/02E-29N01	M		2	105				29	
06N/01W-11G01	M		1	93				31	
06N/01W-13R01	M		1	60				29	
07N/01E-12N02	M			98	1			49	
07N/01E-33R01	M		9	86				45	
07N/02E-12C01	M		1	140				29	
07N/01W-13H01	M		1	158				57	
08N/01E-23Q01	M		2	356	1			48	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SOLANO COUNTY				5-21.11					
08N/01E-32E01	M		1					48	
08N/01E-33Q01	M		9	58				31	
08N/01E-33Q02	M		9	58				58	
08N/02E-22Q01	M		2	289				49	
08N/02E-32J01	M			150				48	
08N/01W-23B01	M		2	175			1	31	
08N/01W-34A01	M		2	172	1			48	
SAN JOAQUIN VALLEY				5-22.00					
MOKELUMNE RIVER AREA				5-22.01					
02N/06E-16L01	M		2					48	
03N/05E-16A01	M		1			1		47	
03N/06E-29C01	M		2					48	
03N/06E-35P01	M		1		2			48	
03N/07E-10L04	M	030/710 K04	1201	1	190			35	
03N/07E-20P02	M		2					48	
03N/08E-08E01	M		2	400				48	
03N/08E-19C01	M		7	375				48	
04N/05E-22A01	M		9					48	
04N/06E-12N01	M		9	38				29	
04N/07E-33H01	M		2					48	
04N/08E-18D01	M		2	220				48	
05N/05E-33A01	M		1					48	
05N/07E-34G01	M		2					48	
05N/08E-22Q01	M			200				34	
CALAVERAS RIVER AREA				5-22.02					
01N/06E-14C01	M	0302	4701	3	835		1	31	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
CALAVERAS RIVER AREA				5-22.02					
01N/07E-07E01 M	1001	4701	3				1	46	
02N/06E-34K01 M	0401	4701	3	535			1	1	31
02N/07E-01R02 M			1						26
02N/07E-12A01 M			2				2		36
02N/07E-16L01 M			2	260					47
02N/07E-33R01 M			0						47
02N/08E-12L01 M			2						47
02N/08E-21R01 M			2						47
02N/09E-05H01 M			2						47
02N/09E-07G02 M			2						47
03N/08E-32P01 M			2						47
03N/09E-25R01 M			2				1		48
FARMINGTON-COLLEGEVILLE AREA				5-22.03					
01N/06E-35A02 M			2	150					55
01N/07E-13E01 M			1	135					49
01N/08E-17D01 M			2				1	1	49
01N/08E-26A02 M			7						49
01N/09E-15B01 M			2						
01N/10E-31Q02 M			2	70					55
01S/07E-10A01 M			2				1		49
01S/08E-15A01 M			2				1		55
01S/08E-19N01 M									49
01S/09E-09R01 M			2				1		49
TRACY AREA				5-22.04					
01S/05E-31R01 M			1	190					56
01S/05E-35Q01 M			3	600					56

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
TRACY AREA				5-22.04					
01S/06E-31E01	M		1	80		1		56	
02S/05E-16C01	M		2	200				56	
02S/05E-24N01	M		2					58	
02S/06E-27E01	M		1	40				57	
02S/06E-31N01	M			500				56	
03S/06E-03F01	M		1	58				56	
03S/06E-09J01	M		1	98				40	
SO SAN JOAQUIN IRRIGATION DIST				5-22.05					
01S/07E-15J01	M	001/007 15 2	7518	8				49	
02S/09E-08H01	M	002/009 08 1	7518					49	
OAKDALE IRRIGATION DISTRICT				5-22.06					
01S/09E-36A01	M	012	3520	2				40	
01S/10E-28J01	M	026	3520	2				46	
02S/09E-26F01	M	004	3520	2				45	
02S/10E-33J01	M	063	3520	2				40	
02S/11E-31N01	M	102	3520	2				40	
02S/12E-31K01	M	112	3520	2				45	
03S/10E-15A01	M	089	3520	2				44	
03S/11E-18D01	M	109	3520	2				40	
MODESTO IRRIGATION DISTRICT				5-22.07					
02S/08E-34A01	M	049	3521	8	12			55	
02S/09E-33A01	M	088	3521	8	12			55	
03S/07E-15A01	M	002	3521	8	12			53	
03S/08E-13A01	M	071	3521	8	12			18	
03S/08E-23A01	M	064	3521	8	12			53	
03S/09E-15A01	M	096	3521	8	12			53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
MODESTO IRRIGATION DISTRICT				5-22.07					
04S/07E-02A01	M 011	3521	8	12				53	
04S/08E-03A01	M 056	3521	8	12				53	
TURLOCK IRRIGATION DISTRICT				5-22.08					
04S/08E-27D01	M 207	3524	8					53	
04S/09E-21A01	M 253	3524	8					53	
04S/10E-21R01	M 350	3524	8		2			53	
04S/11E-29N01	M 405	3524	8					53	
05S/08E-01N01	M 218	3524	8					53	
05S/09E-14R01	M 290	3524	8					16	
05S/09E-24N01	M 291	3524	8					16	
05S/10E-21R01	M 356	3524	8					53	
05S/11E-21N01	M 418	3524	8					53	
06S/09E-15R01	M 280	3524	8					53	
06S/10E-21A01	M 361	3524	8					53	
06S/11E-08R01	M 422	3524	8					53	
MERCED IRRIGATION DISTRICT				5-22.09					
06S/11E-34R01	M 306	3525	8					53	
06S/12E-21N01	M 208	3525	8		2	1		53	
06S/13E-19N01	M 509	3525	8					56	
06S/14E-32N01	M 703	3525	8					53	
07S/10E-01N01	M 102	3525	8					53	
07S/11E-13N01	M 315	3525	8					53	
07S/12E-12R01	M 513	3525	8					34	
07S/12E-21D01	M 332	3525	8					53	
07S/13E-16N01	M 613	3525	8					53	
07S/14E-16R01	M 817	3525	8					53	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
MERCED IRRIGATION DISTRICT				5-22.09					
07S/15E-20R01 M	900	3525	8					53	
07S/15E-36N01 M	917	3525	8					53	
08S/12E-01D01 M	604	3525	8					53	
08S/13E-09R01 M	102	3525	8					53	
08S/14E-01A01 M	905	3525	8					53	
EL NIDO IRRIGATION DISTRICT				5-22.10					
09S/13E-14R01 M	010	3527	2					56	
09S/14E-17K01 M	004	3527	2					56	
DELTA-MENDOTA AREA				5-22.11					
02S/04E-16H01 M	02S/04E 16	6001	1	207				51	
02S/04E-25J01 M	02S/04E 25	6001	1					52	
02S/04E-28A01 M	02S/04E 28	6001	1	294	1			51	
02S/04E-29Q01 M	02S/04E 29	6001						56	
02S/05E-32A01 M	02S/05E 32	6001	7					51	
03S/05E-08R01 M	03S/05E 8A	6001	1	214				43	
03S/05E-08R02 M	03S/05E 8F	6001	1					55	58
03S/05E-25Q01 M	03S/05E 25	6001	2	700				48	
03S/05E-26K01 M	03S/05E 26	6001	9	220				44	
03S/06E-16Q01 M	03S/06E 16	6001	2	785				51	
03S/06E-18N01 M	03S/06E 18	6001	1	119				41	
03S/06E-25D01 M	03S/06E 25A	6001		71				41	
04S/06E-04H01 M	04S/06E 4A	6001	2	474				46	
04S/06E-09R01 M	04S/06E 9	6001	1	200				44	
04S/07E-27M01 M	04S/07E 27A	6001		300				52	
04S/07E-31D01 M	04S/07E 31	6001	2	425				44	
05S/07E-05D01 M	05S/07E 5C	6001	1					47	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
DELTA-MENDOTA AREA				5-22.11					
05S/07E-13K01 M	05S/07E 13A	6001	4					52	
05S/07E-14D01 M	05S/07E 14A	6001	1	132				41	
05S/07E-26P01 M	05S/07E 26B	6001	1	278				47	
05S/08E-06K01 M	05S/08E 6A	6001	1	60				41	
05S/08E-35H01 M	05S/08E 35A	6001						48	
06S/07E-12P01 M	06S/07E 12	6001	1	80				47	
06S/08E-12L01 M	06S/08E 12A	6001	1	108				42	
06S/08E-16M01 M	06S/08E 16B	6001	2	634				45	
06S/08E-27J01 M	06S/08E 27B	6001	1	187				50	
06S/08E-29J01 M	06S/08E 29A	6001	2					47	
07S/08E-12E01 M	07S/08E 12	6001		3000				42	
07S/08E-22B01 M	07S/08E 22B	6001	7					50	
07S/08E-22L01 M	07S/08E 22A	6001	1	118				42	
07S/09E-04R01 M	07S/09E 4G	6001	1	135				42	
07S/09E-26N01 M	07S/09E 26	6001	8	15				42	
08S/08E-01N01 M	08S/08E 1A	6001	1	140				42	
08S/08E-15J01 M	08S/08E 15A	6001		475				40	
08S/09E-26H01 M	08S/09E 26	6001	8	582				52	
08S/09E-26H03 M	08S/09E 26B	6001	8	300				52	
08S/10E-21L04 M	08S/10E 21H	6001	8	260				52	
09S/08E-13D01 M	09S/08E 13	6001	9					40	
09S/09E-18N01 M	09S/09E 18	6001						40	
09S/09E-23L01 M	09S/09E 23B	6001	8	602				52	
09S/10E-19B01 M	09S/10E 19A	6001	8					52	
09S/10E-23J01 M	09S/10E 23	6001	7	781		1		39	
09S/11E-16H01 M	09S/11E 16A	6001	1	300				49	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
DELTA-MENDOTA AREA				5-22.11					
09S/11E-20J01 M	09S/11E 20C	6001	8	800				52	
10S/09E-06A01 M	10S/09E 6A	6001		54				51	
10S/09E-08B01 M	10S/09E 8	6001	9					45	
10S/10E-02R01 M	10S/10E 2	6001	1	42				39	
10S/10E-11R01 M	10S/10E 11A	6001	1	24				39	
10S/10E-31G01 M	10S/10E 31	6001	2	300				42	
10S/11E-23D01 M	10S/11E 23A	6001	8	10				48	
10S/11E-27E02 M	10S/11E 27B	6001	1	472				56	
11S/10E-11J01 M	11S/10E 11	6001	1	148				39	
11S/10E-22Q01 M	11S/10E 22	6001	2	900				49	
11S/11E-02J02 M	11S/11E 2A	6001	8	300				52	
11S/11E-22K01 M	11S/11E 22	6001	8	12				48	
11S/11E-22Q03 M	11S/11E 22D	6001	8	330				52	
11S/12E-31C01 M	11S/12E 31	6001	2					51	
12S/11E-09N01 M	12S/11E 9	6001		1080				44	
12S/11E-35Q01 M	12S/11E 35	6001				1		39	
12S/12E-04D01 M	12S/12E 4	6001	8	12				48	
12S/12E-16H05 M			8	720				58	
12S/12E-20J01 M	12S/12E 20A	6001	8	428				52	
12S/12E-25D01 M	12S/12E 25D	6001	8	420				52	
12S/12E-25D02 M	12S/12E 25E	6001	8	305				52	
12S/13E-10N01 M	12S/13E 10A	6001	8	12				48	
12S/13E-27Q01 M	12S/13E 27	6001	1	600				44	
12S/14E-30C01 M	12S/14E 30A	6001		221				48	
13S/11E-23E01 M	13S/11E 23	6001						56	
13S/12E-05Q01 M	13S/12E 5	6001		937				55	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
DELTA-MENDOTA AREA				5-22.11					
13S/12E-22N01 M	13S/12E 22A	6001	1			1		56	
13S/12E-34P01 M	13S/12E 34	6001						39	
13S/13E-10R01 M	13S/13E 10B	6001	2					50	
13S/13E-12A01 M	13S/13E 12B	6001	8	16				50	
13S/13E-15R01 M	13S/13E 15A	6001						39	
13S/13E-33N01 M	13S/13E 33	6001						56	
13S/14E-09J01 M	13S/14E 9A	6001	8	16				50	
13S/14E-27D01 M	13S/14E 27A	6001	8	16				50	
13S/14E-32Q01 M	13S/14E 32	6001						39	
13S/14E-35P01 M	13S/14E 35	6001	2	1100				39	
13S/15E-30N01 M	13S/15E 30	6001	8	20				48	
CHOWCHILLA WATER DISTRICT				5-22.12					
09S/14E-25R01 M	09S/14E 25B	6001	2					22	
09S/15E-25J02 M	09S/15E 25F	6001	2					22	
09S/16E-11H01 M	09S/16E 11	6001	1					22	
09S/16E-35D01 M	09S/16E 35B	6001	1					20	
09S/17E-21L01 M	09S/17E 21A	6001	1					22	
09S/17E-35J01 M	09S/17E 35	6001						41	
09S/18E-33Q01 M	09S/18E 33A	6001	9					48	
10S/14E-26C01 M	10S/14E 26	6001	2					39	
10S/15E-23K01 M	10S/15E 23	6001	2					20	
10S/16E-29R01 M	10S/16E 29A	6001	2	106				20	
MADERA IRRIGATION DISTRICT				5-22.13					
10S/16E-35A02 M	10S/16E 35	6001	1	80				48	
10S/17E-27E01 M	10S/17E 27B	6001		99				23	
10S/18E-20B01 M	10S/18E 20B	6001	9					20	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
MADERA IRRIGATION DISTRICT				5-22.13					
10S/19E-16D01 M	10S/19E 16A	6001	1						50
11S/16E-22A02 M	11S/16E 22C	6001	2						36
11S/17E-24D01 M	11S/17E 24A	6001	2						28
11S/17E-27C01 M	11S/17E 27	6001	2	114					28
11S/18E-20N01 M	11S/18E 20A	6001	2						20
11S/19E-17Q01 M	11S/19E 17	6001		78					45
11S/20E-22M01 M	11S/20E 22	6001	1						36
11S/21E-31D03 M	11S/21E 31A	6001	2						52
12S/16E-23A01 M	12S/16E 23A	6001	2						38
12S/17E-21H01 M	12S/17E 21C	6001	2	112					38
12S/18E-21G01 M	12S/18E 21B	6001	2						20
12S/19E-28A01 M	12S/19E 28D	6001	2						36
WEST CHOWCHILLA-MADERA AREA				5-22.14					
10S/13E-14M01 M	10S/13E 14	6001		38					51
10S/14E-01R01 M	10S/14E 1A	6001	2	52					22
11S/14E-33L01 M	11S/14E 33	6001	2						44
11S/15E-33E01 M	11S/15E 33B	6001	2						50
12S/14E-28G01 M	12S/14E 28	6001	1						41
12S/15E-14L01 M	12S/15E 14	6001	9	82					40
FRESNO IRRIGATION DISTRICT				5-22.15					
12S/20E-14A01 M	12S/20E 14B	6001	2	164					37
12S/21E-34D01 M	226	3631	2						39
12S/22E-21E01 M	12S/22E 21	6001	9	32					51
13S/17E-22B01 M	327	3631	2						44
13S/18E-16D01 M	13S/18E 16A	6001	2						37
13S/19E-09Q01 M	047	3631	1						21

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
FRESNO IRRIGATION DISTRICT				5-22.15					
13S/20E-21J01 M	25	3200	3	171	2			30	
13S/21E-23D01 M	348/B	3631	2					39	
13S/22E-21A01 M	007/B	3631	2					50	
13S/23E-31P01 M	077/A	3631	2					36	
14S/18E-08J01 M	024/A	3631	2					21	
14S/18E-25B01 M	058/A	3631						27	
14S/19E-20B01 M	244/B	3631						40	
14S/21E-14A01 M	363	3631	2					22	
15S/20E-13E01 M	211	3631						38	
CITY OF FRESNO				5-22.16					
14S/20E-09L01 M	09	3200	3	170	1			30	
14S/20E-10M01 M	03	3200	3					30	
FRESNO SLOUGH AREA				5-22.17					
13S/15E-28H01 M	13S/15E 28C	6001		256				40	
13S/16E-25J01 M	13S/16E 25	6001		118				36	
14S/15E-28P01 M	14S/15E 28	6001	2					45	
14S/16E-22N01 M	14S/16E 22	6001	1					46	
14S/17E-25A01 M	204/B	3631				1		39	
15S/16E-01L01 M	15S/16E 1	6001	2	300				29	
15S/16E-34E01 M	15S/16E 34A	6001		1000				29	
15S/17E-22R01 M	15S/17E 22	6001	2	190	1	1		21	
15S/18E-16G01 M	15S/18E 16	6001	2	267		1		21	
16S/16E-10N01 M	16S/16E 10	6001	2					55	
15S/19E-18B01 M	333	3631	9					44	
16S/17E-23N01 M	16S/17E 23A	6001	2	552		1		26	
16S/18E-27C01 M			2					50	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
FRESNO SLOUGH AREA				5-22.17					
16S/18E-31Q02	M		2	417	1			26	
17S/17E-12H01	M		2					50	
17S/18E-23A02	M		2					35	
CONSOLIDATED IRRIGATION DISTRICT				5-22.18					
14S/22E-22N01	M	011		3636	8			46	
15S/19E-24N01	M	071		3636	8			46	
15S/20E-28A01	M	075		3636	8			46	
15S/21E-15D01	M	002		3636	8			46	
15S/22E-16A01	M	018		3636	8			46	
15S/22E-29D01	M	026		3536	8			46	
16S/19E-14A01	M	055		3636	8			46	
16S/20E-22N01	M	049		3636	8			46	
16S/21E-22N01	M	061		3636	8			46	
16S/22E-23R01	M	034		3636	8			46	
17S/22E-03C01	M	042		3636	8			46	
ALTA IRRIGATION DISTRICT				5-22.19					
14S/23E-36R01	M	012		4637	1			26	
14S/24E-31P01	M	011/B		4637				45	
15S/23E-23A02	M	031		4637	1			21	
15S/24E-22D01	M	027/C		4637				34	
16S/23E-23E01	M	080		4637	1			21	
16S/24E-21J01	M	084		4637	2		2	21	
16S/25E-29A01	M	100/D		4637				31	
17S/22E-24R01	M	159/A		4637	9			25	
17S/23E-23D01	M	153		4637	8			21	
17S/24E-23P01	M	146		4637	9			21	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
ALTA IRRIGATION DISTRICT				5-22.19					
17S/25E-10C01 M	123/B	4637						47	
17S/25E-18R01 M	164	4637	9					26	
LOWER KINGS RIVER AREA				5-22.20					
17S/19E-14J02 M			1					39	
17S/20E-20B01 M			9					36	
17S/21E-11G01 M			9	20				25	
18S/18E-12N02 M	18S/18E 12	6001	9	211				25	
18S/19E-26E01 M				50				47	
18S/20E-16A01 M			2					47	
18S/21E-10R01 M			2					47	
19S/19E-25A01 M								44	
19S/20E-21A01 M								48	
20S/20E-09C01 M			1					47	
20S/21E-03A01 M	20S/21E 3	6001	1	56				25	
20S/21E-25L01 M	20S/21E 25	6001	9					43	
21S/21E-04A01 M			2					49	
ORANGE COVE IRRIGATION DISTRICT				5-22.21					
14S/25E-30D01 M	14S/25E. 30	6001						46	
15S/25E-22N01 M	15S/25E 22A	6001		102				45	
STONE CORRAL IRRIGATION DISTRICT				5-22.22					
16S/26E-32P01 M	16S/26E 32	6001		88				38	
17S/26E-17P02 M	17S/26E 17	6001	2	133				46	
IVANHOE IRRIGATION DISTRICT				5-22.23					
18S/25E-12Q01 M							1	24	
KAWEAH DELTA WATER CONSERV DIST				5-22.24					
17S/27E-34P01 M	17S/27E 34	6001	1					39	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
KAWEAH DELTA WATER CONSERV DIST				5-22.24					
18S/22E-29A01	M		2						
18S/22E-29N01	M	18S/22E 29	6001						26
18S/23E-34A01	M		2						20
18S/24E-26A01	M	18S/24E 26	6001	80					35
18S/25E-33F01	M	18S/25E 33B	6001						32
18S/26E-27E01	M	18S/26E 27B	6001	1	68				48
19S/22E-01N01	M	19S/22E 1	6001		38				28
19S/22E-36E01	M	19S/22E 36	6001	9					39
19S/25E-25D01	M		2						36
20S/22E-10C01	M		2						33
20S/25E-17A01	M	20S/25E 17	6001			1			25
TULARE IRRIGATION DISTRICT				5-22.25					
19S/23E-24G01	M	19S/23E 24B	6001	2		1			53
19S/23E-32H01	M	19S/23E 32B	6001	2					49
19S/24E-16P01	M	19S/24E 16A	6001	2					53
20S/23E-09J01	M	20S/23E 9	6001	2					29
20S/24E-23K01	M	20S/24E 23	6001	1	123				44
EXETER IRRIGATION DISTRICT				5-22.26					
18S/27E-29D01	M	18S/27E 29	6001						37
19S/26E-23E01	M	19S/26E 23A	6001	2	365	1			38
LINDSAY-STRATHMORE IRRIG DIST				5-22.27					
19S/27E-29D01	M	19S/27E 29	6001	2	200				49
20S/27E-06B01	M	20S/27E 6C	6001						52
LINDMORE IRRIGATION DISTRICT				5-22.28					
20S/26E-22C02	M	20S/26E 22	6001	2	247				24
20S/27E-29J01	M	20S/27E 29	6001	8	194				36

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
PORTERVILLE IRRIGATION DISTRICT				5-22.29					
21S/27E-23N01 M	21S/27E 23L	6001	2	195				24	
22S/27E-10R01 M	22S/27E 10D	6001	2	190				24	
LOWER TULE RIVER IRRIGATION DIST				5-22.30					
21S/23E-22J01 M	21S/23E 22	6001		130				35	
21S/24E-15H01 M	21S/24E 15A	6001		95				30	
21S/25E-08H01 M	21S/25E 8B	6001	2					33	
21S/26E-10H01 M	21S/26E 10	6001	2	300				24	
22S/23E-15R01 M	22S/23E 15	6001	9					25	
22S/24E-15A01 M	22S/24E 15A	6001	2	300				35	
22S/25E-15A01 M	22S/25E 15B	6001	2	340				37	
22S/26E-06A01 M	22S/26E 6G	6001						37	
VANDALIA IRRIGATION DISTRICT				5-22.31					
22S/28E-18A01 M	22S/28E 18A	6001	2					39	
SAUCELITO IRRIGATION DISTRICT				5-22.32					
22S/26E-15J01 M	22S/26E 15C	6001	7	460				49	
22S/27E-32A01 M	22S/27E 32	6001		645				25	
23S/26E-02R01 M	23S/26E 2	6001	2					30	
PIXLEY IRRIGATION DISTRICT				5-22.33					
23S/23E-02B01 M	23S/23E 2A	6001	9					40	
23S/24E-05A01 M								26	
23S/25E-14C01 M	23S/25E 14	6001	8	305				35	
23S/25E-16N03 M			8	430				59	
23S/25E-16N04 M			8	240				59	
23S/25E-17Q03 M			0	352				58	
ALPAUGH-ALLENSWORTH AREA				5-22.34					
23S/24E-36A01 M	23S/24E 36	6001	9	90			1	45	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
ALPAUGH-AlLENSWORTH AREA				5-22.34					
24S/23E-21B02 M	24S/23E 21	6001	8	77				36	
24S/24E-23Q01 M	24S/24E 23	6001	9	60				26	
DELANO-EARLIMART IRRIG DIST				5-22.35					
23S/25E-27J02 M	23S/25E 27	6001	8	366				30	
23S/26E-29P01 M	23S/26E 29A	6001	2	270				44	
23S/27E-28J01 M	23S/27E 28	6001	2	900				25	
24S/25E-10A01 M	24S/25E 10G	6001	2	522	1			37	
24S/25E-33J01 M			2	500				37	
24S/26E-05R01 M	24S/26E 5A	6001	2	427				31	
24S/26E-20H01 M	24S/26E 20L	6001	2	1254	1			35	
24S/26E-29R01 M			2	1300				54	
24S/26E-29R02 M			0	300				58	
24S/26E-32G01 M	24S/26E 32A	6001	8	470				32	
24S/26E-34F01 M			2	1510				58	
24S/27E-10E01 M	24S/27E 10	6001	8	200				45	
24S/27E-31P01 M	24S/27E 31A	6001	2	1050		1		48	
25S/26E-01A02 M			0	892				58	
25S/26E-10B03 M	25S/26E 10A	6001	8	375				46	
25S/27E-22H01 M	25S/27E 22	6001	9	700				48	
26S/26E-10R01 M			0	1000				58	
SOUTH SAN JOAQUIN MUD				5-22.36					
25S/25E-06H01 M	25S/25E 6A	6001	8	112				42	
25S/25E-35P01 M	01D/350 1	1700	2	800				35	
25S/26E-28H02 M	25S/26E 28	6001		425				39	
26S/26E-16P01 M	02E/160 2	1700	2	500				33	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
NORTH KERN WATER STORAGE DIST				5-22.37					
26S/25E-15R01	M 02D/150	1	1700	2	810				49
26S/25E-31R01	M 02D/310	1	1700	2	646	1	1		42
26S/26E-30P01	M 02E/300	1	1700	2	1000	1	1		49
27S/25E-01A01	M 27S/25E	1	6001	9	148				32
27S/25E-06F01	M 03D/060	3	1700	2	700				38
27S/26E-06H02	M 27S/26E	6	6001	8	387				38
27S/26E-20E01	M 03E/200	3	1700	2	732				42
27S/27E-30H02	M 27S/27E	30E	6001						49
28S/25E-13L01	M 04D/130	4	1700	2	642				42
28S/26E-22L01	M 04E/220	4	1700	2	700				38
28S/27E-21F01	M 28S/27E	21	6001		478				47
28S/27E-30P01	M 04F/300	3	1700	2	790				38
SHAFTER-WASCO IRRIGATION DIST				5-22.38					
27S/24E-03E01	M 03C/030	5	1700	2	570	1			38
27S/24E-35C01	M 03C/350	2	1700	2	709	1	1		49
27S/25E-28F01	M 03D/280	2	1700	2	442				38
28S/24E-01R01	M 04C/010	2	1700	2	350				38
KERN RIVER DELTA AREA				5-22.40					
28S/25E-34J01	M 04D/340	1	1700	1	378				38
28S/26E-29L01	M 04E/290	2	1700	2	600				56
29S/25E-12M01	M 05D/120	1	1700	2	140				36
29S/25E-33J01	M 05D/330	1	1700	2					39
29S/26E-10L01	M 29S/26E	10	6001	8	140				38
29S/27E-04J01	M 05F/040	1	1700	2	725				37
29S/27E-26D01	M 05F/260	1	1700	2		1			24
30S/24E-24Q01	M 30S/24E	24	6001						47

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
KERN RIVER DELTA AREA				5-22.40					
30S/25E-03H01 M	06D/030 1	1700	2	703	2	1	1	50	
30S/25E-21L01 M	06D/210 3	1700						40	
30S/26E-16J01 M	06E/160 1	1700	9					36	
30S/26E-27A01 M	06E/270 1	1700	2	700				47	
30S/27E-03G01 M	06F/030 2	1700	2	700				47	
30S/27E-28A02 M	30S/27E 28E	6001	2					40	
30S/28E-32B01 M	06G/320 1	1700	2	441				40	
31S/25E-25A02 M	31S/25E 25A	6001	2					49	
31S/26E-01A01 M	07E/010 1	1700	2					36	
31S/26E-35D01 M	07E/350 1	1700	2					40	
31S/27E-04L01 M	07F/040 1	1700	2	700			1	47	
31S/27E-28J01 M	31S/27E 28D	6001	2					40	
31S/28E-17P02 M	07G/170 2	1700	7	157		1		40	
31S/28E-30M01 M	07G/300 2	1700	2	800				48	
32S/26E-36G01 M	08E/360 5	1700	8	700				47	
32S/27E-02B02 M	32S/27E 2	6001	1	125				36	
32S/27E-18E01 M	08F/180 2	1700	2	850				51	
32S/28E-04A01 M	08G/040 2	1700	1	282				52	
EDISON-MARICOPA AREA				5-22.41					
29S/28E-26J01 M			8	204				33	
29S/29E-33N01 M								39	
30S/28E-02R01 M	30S/28E 2E	6001	7	500				50	
30S/28E-34R02 M			0	200				59	
30S/29E-05F01 M			2	498				37	
30S/29E-26A01 M			2	622				38	
30S/29E-31H01 M			0	328				59	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
EDISON-MARICOPA AREA				5-22.41					
30S/29E-31R01	M		0	167				59	
30S/30E-20R01	M		1	480				29	
31S/29E-09A01	M		2					33	
31S/29E-29A01	M		2	530				43	
31S/30E-09R01	M		7	600				42	
31S/30E-21G01	M		2	1004				52	
32S/25E-35N02	M		8	1650				52	
32S/28E-23R01	M	08G/230 1	1700	2	815			45	
32S/29E-07P01	M	08H/070 1	1700	2	1000			48	
32S/29E-08R02	M		0					57	
32S/29E-16R02	M		0	400				59	
32S/29E-21P01	M	32S/29E 21	6001	8	340			37	
11N/18W-06P01	S		2	732	1			49	
11N/18W-28D01	S			672				57	
11N/19W-04H01	S	10H/040 2	1700	2	1140	1		48	
11N/19W-24R01	S	11N/19W 24	6001	8	830			39	
11N/19W-28G01	S		7	1094	1			53	
11N/20W-07Q01	S	10G/070 2	1700	2	1243	1	1	54	
11N/20W-18F01	S	10G/180 1	1700	9	601	2		49	
11N/20W-24A01	S	10G/240 1	1700	2	1007	1	1	52	
11N/21W-05M01	S	10E/050 3	1700	2	1000			51	
11N/21W-14D02	S	10F/140 1	1700	8	584			43	
11N/22W-04H01	S	10E/040 1	1700	2	1008			51	
11N/23W-12P01	S		2	1120	1	1		56	
12N/19W-32E01	S		8	1000				47	
12N/20W-31R01	S	12N/20W 31B	6001	8	1208			52	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
EDISON-MARICOPA AREA				5-22.41					
12N/20W-36Q02 S			8	1002				56	
12N/21W-29N01 S	09F/290 1	1700	2	1002				49	
12N/22W-31E01 S			2	1137				56	
12N/22W-36R01 S			2	1266		1		48	
12N/23W-26N01 S			0	498				59	
12N/23W-28P01 S				702	1			56	
BUENA VISTA WATER STORAGE DIST				5-22.42					
26S/22E-32R01 M			2					53	
27S/22E-16B01 M			2	800				59	
27S/22E-21F02 M	27S/22E 21	6001	8	700				54	
27S/22E-32H01 M			1					49	
28S/22E-10D02 M	28S/22E 10	6001	2	420				45	
28S/22E-36P01 M	C6	4640	7					38	
28S/23E-31R01 M	C4	4640	2					39	
29S/23E-08A01 M	087	4640	2					38	
29S/23E-36R01 M	29S/23E 36A	6001	2	216				49	
29S/24E-32R01 M	D4	4640	2					38	
30S/23E-01C01 M	D9	4640	8			1		39	
30S/24E-02C01 M	D1	4640	2			1		39	
SEMITROPIC WATER STORAGE DIST				5-22.43					
25S/22E-02E01 M			0	625				58	
25S/22E-02N02 M			0	285				58	
25S/22E-14G01 M			9	500				48	
25S/23E-03R01 M	25S/23E 3	6001	2	480				35	
25S/23E-30G01 M			2	695				32	
25S/24E-07R01 M	25S/24E 7	6001	8	243				35	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
SEMITROPIC WATER STORAGE DIST				5-22.43					
25S/24E-30H01 M	01C/300 3	1700	2	700				33	
26S/21E-14E01 M				300	1				
26S/22E-10G01 M	26S/22E 10B	6001	2	300				54	
26S/22E-35E01 M	26S/22E 35	6001	2					52	
26S/23E-02R01 M	02B/020 2	1700	2	200				35	
26S/23E-36F01 M	02B/360 1	1700	2	502				40	
26S/24E-23H01 M	02C/230 1	1700	2	638				42	
27S/22E-02Q01 M	27S/22E 2	6001	7	159				45	
27S/23E-06L01 M	A1	4640	7					38	
27S/23E-22G02 M	27S/23E 22	6001	9					45	
28S/23E-11E01 M			1					45	
28S/24E-31Q01 M	C2	4640	9					39	
29S/24E-14R01 M	29S/24E 14	6001	2					45	
AVENAL-MCKITTRICK AREA				5-22.44					
22S/19E-18P02 M			1	410				51	
22S/19E-30A01 M	22S/19E 30B	6001	1	323				51	
23S/18E-29E01 M			4	426	1			10	
23S/18E-29E02 M			4	364		1		59	
23S/19E-14R01 M	23S/19E 14	6001		59				51	
23S/19E-26M01 M	23S/19E 26	6001	9					51	
24S/17E-11P01 M			9					59	
24S/17E-23A01 M				200				51	
24S/17E-35B02 M			9	192				50	
24S/18E-11D01 M			4					51	
24S/18E-30D01 M			2	453		1		46	
24S/18E-33N01 M			2	295		1		51	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
AVENAL-MCKITTRICK AREA				5-22.44					
24S/19E-02L01 M				704		1		55	
24S/19E-12E01 M								55	
24S/19E-30N01 M			2					55	
25S/19E-15G01 M								53	
25S/19E-20Q02 M			4	400	1	1		49	
25S/19E-25B01 M								51	
25S/20E-04C01 M			9	200				51	
25S/20E-15Q01 M						1		53	
25S/20E-35B01 M			9					55	
25S/21E-22H01 M			0	615				59	
25S/21E-30M01 M				61				51	
26S/17E-13L02 M			2					51	
26S/18E-16H01 M								51	
26S/18E-19B02 M			2			1		51	
26S/18E-27F01 M						1		55	
26S/19E-12L01 M				358		1		51	
26S/21E-06F03 M			9	194				51	
27S/18E-15R01 M			9					55	
28S/21E-13E01 M			0			1		55	
TULARE LAKE-LOST HILLS AREA				5-22.45					
24S/21E-15J01 M			8					51	
24S/22E-17R01 M			8	1400				51	
24S/22E-36R01 M			9					48	
26S/21E-14J01 M			8	300				55	
CORCORAN IRRIGATION DISTRICT				5-22.46					
21S/22E-16Q01 M			2					45	

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
CORCORAN IRRIGATION DISTRICT				5-22.46					
21S/22E-24K01 M			7						36
MENDOTA-HURON AREA				5-22.47					
14S/13E-15M01 M			2	1594					52
14S/13E-26N01 M			0	1410					52
14S/13E-28P01 M			0	1789					58
14S/13E-29Q01 M			2	1803			1		50
14S/14E-05H01 M				800		1			58
14S/14E-17Q01 M			8	1250		1	1		50
14S/14E-25M01 M				217			1		50
14S/14E-28E02 M	14S/14E 28C	6001							48
14S/15E-18E02 M			2	890					51
14S/15E-35N01 M			2						51
15S/13E-14N01 M				1811					50
15S/13E-26N01 M			2						53
15S/14E-06D01 M				1006					56
15S/14E-07B02 M	15S/14E 7	6001		850					49
15S/14E-11E01 M									51
15S/15E-19N01 M			8	828					50
15S/15E-22Q01 M	15S/15E 22	6001	2			1			48
15S/15E-35H01 M				400					52
15S/16E-20R01 M	15S/16E 20	6001		1250					39
15S/16E-34E01 M				500					50
15S/17E-34L01 M	15S/17E 34A	6001		1081					29
16S/14E-03E01 M			8	1252			1		50
16S/14E-11B01 M				1724		1			51
16S/15E-02N02 M			2	349					44

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
MENDOTA-HURON AREA				5-22.47					
16S/15E-08Q01 M				550	1	1	55		
16S/16E-18N01 M			2	521	1		50		
16S/16E-28M01 M			2	540		1	50		
17S/14E-13R01 M			2	2090			52		
17S/15E-14E01 M			2	2176	1	1	50		
17S/15E-27K01 M				2130		1	50		
17S/16E-02E01 M			2	561	1	1	53		
17S/16E-24R01 M	17S/16E 24	6001		543			42		
17S/16E-27Q01 M			2	1748	1	1	50		
17S/17E-08B02 M				830			53		
17S/17E-21N02 M				1000		1	51		
17S/17E-26E03 M			4	1530			52		
18S/15E-13N01 M			2	3284			52		
18S/16E-07N01 M			2	1896		1	50		
18S/16E-22Q01 M			8	2024		1	50		
18S/16E-26F01 M			2	1800	1	1	50		
18S/17E-08R01 M			2	1929	1	1	50		
18S/17E-12N01 M			2	1552		1	50		
18S/17E-29N01 M				1830		1	50		
18S/18E-03N01 M			2	626		1	50		
18S/18E-07N01 M			2	1200		1	50		
18S/18E-24Q01 M			9				50		
18S/18E-30N01 M			2	1800		1	50		
18S/18E-31P01 M			0	1977	1		58		
19S/16E-13N01 M			2	2106	1	1	50		
19S/16E-35Q01 M			2			1	50		

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
MENDOTA-HURON AREA				5-22.47					
19S/17E-09N01 M			2	1930	1	1	50		
19S/17E-21N01 M				2090	1		50		
19S/17E-35N01 M			0	2030	1		58		
19S/18E-15M01 M			2	2110			50		
19S/18E-20N01 M			2	1999			50		
19S/18E-27M01 M	19S/18E 27B	6001		2000			45		
19S/18E-27N01 M				2004			50		
19S/18E-33Q01 M				2017			51		
20S/15E-17C01 M			2		1		51		
20S/15E-25D01 M			2	364	1	1	51		
20S/15E-32A01 M				500			51		
20S/16E-22J02 M				600			51		
20S/16E-31N01 M			2	230	1		50		
20S/17E-01E01 M			2	1865			50		
20S/17E-17N01 M			2	2152			50		
20S/18E-11N01 M			2	2010			50		
20S/18E-11Q01 M			0	1950			58		
20S/18E-19D01 M			2	2044	1		50		
20S/18E-36D01 M	20S/18E 36	6001		1400			52		
21S/15E-01E01 M			2	225	1		50		
21S/15E-10C01 M			2	1238			51		
21S/16E-02N01 M			2	427	2	1	53		
21S/16E-07N01 M			2	320	1	1	55		
21S/16E-35D01 M			2	443			50		
21S/17E-05M01 M				2066		1	50		
21S/17E-06N01 M			2	522	1		51		

DESCRIPTION OF INDEX WELLS

State Well Number	Agency Well Number	Agency Supplying Data	Well Use	Well Depth in feet	Data Available			Period of Record	
					Log	Water Anal.	Prod. Record	Begin	End
MENDOTA-HURON AREA				5-22.47					
21S/17E-11E01 M			2		1	1	51		
21S/17E-24G01 M			2	1808		1	57		
21S/18E-02M01 M			2	1257		1	50		
21S/18E-28M02 M	21S/18E 28	6001	2	1000	1		44		
21S/18E-29N01 M			2	900	1		57		
21S/19E-19C01 M			2				50		
21S/19E-33N01 M			2				50		
22S/16E-12F01 M			2				57		
TERRA BELLA IRRIGATION DISTRICT				5-22.50					
22S/27E-36N01 M			0	696	2		58		
23S/27E-10H01 M	23S/27E 10	6001	2				34		

APPENDIX B

RECORDS OF GROUND WATER LEVELS AT SELECTED WELLS
IN CENTRAL AND NORTHERN CALIFORNIA

RECORDS OF GROUND WATER LEVELS AT SELECTED WELLS
IN CENTRAL AND NORTHERN CALIFORNIA

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Explanation of headings and symbols used in the columns of the appendix table.

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State well number--Refer to explanation in Appendix A and to paragraph on "well numbering system" in text of Chapter 1.

R. P. elevation--The numbers in this column give the elevation in feet above mean sea level (U.S.G.S. datum) of the reference point from which the depth to the water surface in the well is measured. Commonly, the reference point is the top of the well casing. Description of the reference point is available in the complete well description on file in the Department of Water Resources.

Date--The date shown in the column is the date upon which the depth measurement given in the next column was made.

Dist. R. P. to water surface--This is the measured depth in feet from the reference point to the water surface in the well. Certain of the depth measurements in the column may be followed with an asterisk superscript to indicate a questionable measurement. Depth to ground water measurements may be questionable for such reasons as (a) well being pumped while undergoing measurement, (b) nearby pump operating, (c) casing leaking or wet, (d) well pumped recently, (e) air gauge measurement, (f) recharge operation at well or nearby. The specific reason for any asterisk on any

given measurement may be obtained through the Sacramento Office of the Department of Water Resources.

When a measurement was attempted but could not be obtained, that is indicated by a square symbol in the column.

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively.

Water surface elevation--This is the elevation in feet above mean sea level (U.S.G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data--The numbers in this column are the code numbers for the agencies from which the water level data were obtained. Appendix A contains an explanation of code numbers.

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
NORTH COASTAL REGION											
SMITH RIVER PLAIN						SMITH RIVER PLAIN					
16N/01W-02J01 H	127.0	11-17-58	17.0	110.0	5000	17N/01W-15M02 H	21.0	4-14-59	8.8	12.2	5001
		12-18-58	16.1	110.9				10-15-58	18.0	20.0	5000
		1-20-59	15.1	111.9				11-18-58		21.1	
		2-18-59	14.6	112.4				12-18-58	16.9	24.2	
		3-18-59	16.0	111.0				1-20-59	13.8		
		4-22-59	16.3	110.7				2-18-59		22.0	
		5-19-59	16.8	110.2				3-18-59	16.0		5001
		6-23-59	18.0	109.0				4-14-59		20.8	5000
16N/01W-17K01 H	49.0	10-15-58	23.0	26.0	5000	BUTTE VALLEY					
		11-18-58	23.7	25.3							
		12-17-58	23.9	25.1							
		1-20-59	18.0	31.0							
		2-18-59	12.4	36.6							
		3-18-59	13.9	35.1							
		4-14-59	13.4	35.6	5001						
		4-22-59	15.2	33.8	5000						
		5-19-59	17.5	31.5							
		6-23-59	19.2	29.8							
16N/01W-22Q01 H	39.0	10-15-58	15.7	23.3	5000	45N/02W-03A01 M	4262.6	10-09-58	27.0	4235.6	5001
		11-18-58	13.3	25.7				3-18-59	26.4	4236.2	
		12-18-58	16.6	22.4				10-09-58		4222.7	5001
		1-20-59	8.5	30.5				10-17-58	19.7	4223.1	5000
		2-18-59	3.6	35.4				11-19-58	19.3	4223.5	
		3-18-59	9.9	29.1				12-19-58	18.9	4223.7	
		4-14-59	8.7	30.3	5001			1-21-59	18.7	4222.9	
		4-22-59	9.5	29.5	5000			2-17-59	19.5	4223.9	
		5-19-59	9.8	29.2				3-19-59	18.5	4222.8	
		6-23-59	12.2	26.8				4-23-59	21.9	4220.5	
16N/01W-22Q02 H	39.5	12-18-58	16.6	22.9	5000	46N/02W-25R01 M	4257.3	10-09-58	26.3	4231.0	5001
		1-20-59						3-18-59	24.8	4232.5	
		2-18-59	9.2	30.3				10-17-58	22.5	4233.7	5000
		3-18-59	12.6	26.9				11-19-58	24.2	4232.0	
		4-22-59	12.9	26.6				12-19-58	24.1	4232.1	
		5-19-59						1-21-59	23.8	4232.4	
		6-23-59						2-17-59	23.7	4232.5	
17N/01W-02P01 H	31.2	10-15-58	23.3	7.9	5000	46N/02W-25R02 M	4256.2	10-17-58	22.5	4233.7	5000
		11-18-58	17.8	13.4				11-19-58	24.2	4232.0	
		12-18-58	19.6	11.6				12-19-58	24.1	4232.1	
		1-20-59	16.7	14.5				1-21-59	23.8	4232.4	
		2-18-59	11.9	19.3				2-17-59	23.7	4232.5	
		3-18-59	17.9	13.3				3-18-59	23.7	4232.5	
		4-22-59	18.8	12.4				4-23-59	27.6	4228.6	
		5-19-59	20.1	11.1				5-21-59	27.6	4228.6	
		6-23-59	21.5	9.7				6-25-59	27.6	4228.6	
17N/01W-15M02 H	21.0	10-15-58	17.5	3.5	5001	47N/01W-14B01 M	4234.8	10-09-58	12.0	4222.8	5001
								12-19-58	12.1	4222.7	5000
								1-21-59	11.9	4222.9	
								2-17-59	12.2	4222.6	
								3-19-59	12.3	4222.5	
								4-23-59	12.3	4222.5	
								5-21-59	12.3	4222.5	
								6-25-59	12.4	4222.4	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
NORTH COASTAL REGION											
BUTTE VALLEY											
1-03.00											
47N/01W-27B01 M	4233.8	10-09-58	14.1	4219.7	5001	43N/06W-22A01 M	2665.0	5-20-59	4.1	2660.9	5000
		12-19-58	10.5	4223.3	5000	CONT.		6-24-59	4.2	2660.8	
		1-21-59	10.6	4223.2							
		2-17-59	7.6	4226.2		44N/05W-34H01 M	2637.0	10-16-58	25.7	2611.3	5000
		3-19-59	10.6	4223.2				11-19-58	27.4	2609.6	
		4-23-59	10.6	4223.2				12-18-58	28.3	2608.7	
		5-21-59	10.7	4223.1				1-21-59	28.8	2608.2	
		6-25-59	10.8	4223.0				2-17-59	29.2	2607.8	
47N/02W-21D01 M	4237.3	10-09-58	7.0	4230.3	5001			3-19-59	□	2608.7	
		3-18-59	4.1	4233.2				4-23-59	28.3		
								5-20-59	□		
								6-24-59	□		
48N/01W-26N01 M	4244.2	11-20-58	15.4	4228.8	5001	45N/05W-29B01 M	2635.0	10-16-58	15.6	2619.4	5000
		12-19-58	15.8	4228.4	5000			11-19-58	16.5	2618.5	
		1-21-59	15.8	4228.4				12-18-58	17.7	2617.3	
		2-17-59	15.9	4228.3				1-21-59	19.1	2615.9	
		3-19-59	15.3	4228.9				2-17-59	19.7	2615.3	
		4-23-59	15.6	4228.6				3-19-59	20.7	2614.3	
		5-21-59	15.8	4228.4				4-23-59	20.8	2614.2	
		6-25-59	16.3	4227.9				5-20-59	18.6	2616.4	
SHASTA VALLEY											
1-04.00											
42N/05W-20J01 M	2882.8	10-16-58	6.5	2876.3	5000	45N/06W-19E01 M	2539.0	10-16-58	20.3	2518.7	5000
		11-19-58	7.5	2875.3				11-19-58	20.3	2518.7	
		12-18-58	6.5	2876.3				12-18-58	20.8	2518.2	
		1-21-59	6.0	2876.8				1-21-59	20.7	2518.3	
		2-17-59	3.7	2879.1				2-17-59	19.7	2519.3	
		3-19-59	5.9	2876.9				3-19-59	19.1	2519.9	
		4-23-59	4.4	2878.4				4-23-59	22.1	2516.9	
		5-20-59	4.5	2878.3				5-20-59	□		
		6-24-59	5.0	2877.8				6-24-59	20.7	2518.3	
SCOTT RIVER VALLEY											
1-05.00											
42N/06W-10J01 M	2835.3	10-16-58	11.5	2823.8	5000	42N/09W-02G01 M	2751.0	10-21-58	8.5	2742.5	5050
		11-19-58	10.1	2825.2				3-26-59	7.0	2744.0	
		12-18-58	10.1	2825.2							
		1-21-59	9.2	2826.1							
		2-17-59	9.1	2826.2		42N/09W-02N01 M	2742.0	10-16-58	7.6	2734.4	5000
		3-19-59	8.2	2827.1				11-19-58	6.7	2735.3	
		4-23-59	5.9	2829.4				12-18-58	6.9	2735.1	
		5-20-59	5.4	2829.9				1-21-59	5.7	2736.3	
		6-24-59	9.9	2825.4				2-17-59	4.9	2737.1	
								3-19-59	4.8	2737.2	
								4-23-59	5.5	2736.5	
								5-20-59	□		
								6-24-59	□		
43N/06W-22A01 M	2665.0	10-16-58	2.7	2662.3	5000	42N/09W-27N01 M	2841.1	10-16-58	6.2	2834.9	5000
		11-19-58	4.2	2660.8				11-17-58	6.4	2834.7	
		12-18-58	4.4	2660.6							
		1-21-59	4.4	2660.6							
		2-17-59	3.4	2661.6							
		3-19-59	3.2	2661.8							
		4-23-59	3.9	2661.1							

GROUND WATER LEVELS AT WELLS

NORTH COASTAL REGION				NORTH COASTAL REGION							
State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev. in feet	Agency Supplying Data
SCOTT RIVER VALLEY			1-05.00	MAD RIVER VALLEY			1-08.00				
42N/09W-27N01 M	2841.1	12-18-58	6.8	2834.3	5000	6N/01E-06H01 H	149.0	4-22-59	7.1	141.9	5000
CONT.		1-21-59	3.9	2837.2		CONT.		5-19-59	9.4	139.6	
		2-17-59	3.9	2837.2				6-23-59	12.7	136.3	
		3-19-59	4.0	2837.1		6N/01E-19001 H	21.0	10-14-58	14.8	6.2	5001
		4-23-59	3.4	2837.7				4-15-59	4.0	17.0	
		5-20-59	2.4	2838.7		6N/01E-29P01 H	17.0	10-14-58	14.0	3.0	5000
		6-24-59	3.5	2837.6				11-18-58	11.5	5.5	
43N/09W-02K02 M	2720.5	10-16-58	8.3	2712.2	5000			12-17-58	11.7	5.3	
		11-19-58	8.6	2711.9				1-20-59	10.2	6.8	
		12-18-58	10.1	2710.4				2-18-59	9.3	7.7	
		1-21-59	10.6	2709.9				3-18-59	9.9	7.1	5001
		2-17-59	7.2	2713.3				4-15-59	9.5	7.5	5000
		3-19-59	□					4-22-59	11.7	5.3	
		4-23-59	8.0	2712.5				5-19-59	11.0	6.0	
		5-20-59	8.0	2712.5				6-23-59	12.5	4.5	
		6-24-59	8.5	2712.0							
43N/09W-24F01 M	2737.0	10-16-58	9.9	2727.1	5000	EUREKA PLAIN			1-09.00		
		11-19-58	13.6	2723.4							
		12-18-58	11.8	2725.2		5N/01E-20Q01 H	22.0	10-14-58	FLOW		5001
		1-21-59	11.8	2725.2				4-15-59	FLOW		
		2-17-59	11.5	2725.5		EEL RIVER VALLEY					
		3-19-59	12.5	2724.5					1-10.00		
		4-23-59	□								
		5-20-59	9.2	2727.8		2N/01W-08B01 H	29.0	10-14-58	23.2	5.8	5001
		6-24-59	□					4-15-59	15.9	13.1	
44N/09W-28P01 M	2711.5	10-16-58	22.3	2689.2	5000	3N/01W-18D01 H	25.0	10-14-58	3.5	21.5	5000
		11-19-58	24.6	2686.9				11-18-58	3.7	21.3	
		12-18-58	25.2	2686.3				12-17-58	3.0	22.0	
		1-21-59	22.4	2689.1				1-20-59	4.1	20.9	
		2-17-59	16.2	2695.3				2-18-59	2.6	22.4	
		3-19-59	10.1	2701.4				3-18-59	2.9	22.1	
		4-23-59	12.6	2698.9				4-14-59	2.0	23.0	5001
		5-20-59	5.8	2705.7				4-22-59	2.8	22.2	5000
		6-24-59	9.1	2702.4				5-19-59	3.1	21.9	
44N/09W-34G01 M	2721.8	10-21-58	18.9	2702.9	5050	3N/01W-34J01 H	61.0	11-18-58	36.5	24.5	5000
		3-26-59	15.0	2706.8				12-17-58	36.5	24.5	
MAD RIVER VALLEY			1-08.00					1-20-59	33.5	27.5	
6N/01E-06H01 H	149.0	10-14-58	17.0	132.0	5000			2-18-59	□		
		11-18-58	15.2	133.8				3-18-59	32.9	28.1	
		12-17-58	15.5	133.5				4-22-59	33.5	27.5	
		1-20-59	7.4	141.6				5-19-59	34.4	26.6	
		2-18-59	2.1	146.9				6-23-59	35.3	25.7	
		3-18-59	9.4	139.6							
		4-15-59	3.4	145.6	5001	3N/02W-26R01 H	12.0	10-14-58	14.4	2.4	5000
								11-18-58	11.0	1.0	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
NORTH COASTAL REGION											
EEL RIVER VALLEY											
3N/02W-26R01 H											
CONT.											
	12.0	12-17-58	10.8	1.2	5000	ROUND VALLEY			1-10.00		
		1-20-59	6.8	5.2							
		2-18-59	2.0	10.0							
		3-18-59	8.4	3.6							
		4-15-59	8.5	3.5	5001	LAYTONVILLE VALLEY			1-12.00		
		4-22-59	8.9	3.1	5000						
		5-19-59	9.9	2.1							
		6-23-59	□								
ROUND VALLEY											
	1352.0	11-17-58	15.3	1336.7	5000				1-11.00		
		12-15-58	15.2	1336.8							
		1-19-59	7.2	1344.8							
		2-19-59	4.7	1347.3							
		3-17-59	□								
		4-21-59	7.1	1344.9							
		4-22-59	7.4	1344.6							
		5-18-59	8.2	1343.8							
		6-22-59	9.8	1342.2							
NORTH COASTAL REGION											
ROUND VALLEY											
	1403.0	10-14-58	34.1	1368.9	5000				1-11.00		
		11-17-58	34.1	1368.9							
		12-15-58	37.2	1365.8							
		1-19-59	24.8	1378.2							
		2-19-59	12.9	1390.1							
		3-17-59	□								
		4-21-59	13.2	1389.8							
		4-22-59	10.2	1392.8	5000						
		5-18-59	15.3	1387.7							
		6-22-59	20.1	1382.9							
	1410.5	10-21-58	25.5*	1385.0	5001						
		4-22-59	12.0*	1398.5							
NORTH COASTAL REGION											
LITTLE LAKE VALLEY											
	1415.5	10-24-58	31.0	1384.5	5001				1-13.00		
		4-22-59	15.2	1400.3							
NORTH COASTAL REGION											
ROUND VALLEY											
	1391.0	10-24-58	□		5001						
NORTH COASTAL REGION											
LITTLE LAKE VALLEY											
	1389.5	10-14-58	6.2	1383.3	5000				1-13.00		
		10-23-58	6.3	1383.2							
		11-17-58	5.2	1384.3							
		12-15-58	5.7	1383.8							
		1-19-59	0.0	1389.5							
		2-19-59	0.0	1389.5							
		3-17-59	□								
		4-21-59	0.0	1389.5	5001						
		4-22-59	FLOW		5000						
		5-18-59	□								

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev. in feet	Agency Supplying Data	State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev. in feet	Agency Supplying Data
NORTH COASTAL REGION											
LITTLE LAKE VALLEY											
18N/13W-07C01 M	1327.0	6-22-59	11.8	1315.2	5000	17N/11W-18J01 M	956.0	6-22-59	1.9	954.1	5000
18N/13W-08L01 M	1342.0	10-13-58	8.7	1333.3	5000	17N/11W-29P01 M	941.0	10-13-58	20.8	920.2	5000
		11-17-58	10.2	1331.8				11-17-58	23.0	918.0	
		12-15-58	10.0	1332.0				12-15-58	21.5	919.5	
		1-19-59	2.6	1339.4				1-19-59	20.0	921.0	
		2-19-59	2.1	1339.9				2-19-59	19.2	921.8	
		3-17-59	4.0	1338.0				3-17-59	21.6	919.4	
		4-21-59	4.6	1337.4				4-21-59	20.8	920.2	
		5-18-59	5.5	1336.5				5-18-59	21.9	919.1	
		6-22-59	6.9	1335.1				6-22-59	23.0	918.0	
18N/13W-08L02 M	1339.0	10-16-58	18.7	1320.3	5050	17N/11W-32J01 M	896.5	10-13-58	4.1	892.4	5000
		3-18-59	8.7	1330.3				11-17-58	3.7	892.8	
18N/13W-17J01 M	1350.6	10-16-58	14.9	1335.7	5000			12-15-58	5.6	890.9	
		11-17-58	□					1-19-59	2.0	894.5	
		12-15-58	16.2	1334.4				2-19-59	1.3	895.2	
		1-19-59	12.7	1337.9				3-17-59	3.5	893.0	
		2-19-59	7.6	1343.0				4-21-59	4.7	891.8	
		3-17-59	7.6	1343.0	5001			5-18-59	3.9	892.6	
		3-18-59	7.2	1343.4	5000			6-22-59	5.1	891.4	
		4-21-59	8.4	1342.2							
		5-18-59	8.9	1341.7							
		6-22-59	12.7	1337.9							
18N/13W-18E01 M	1351.6	10-16-58	33.4	1318.2	5000			10-16-58	15.6	560.4	5050
		11-17-58	□					10-03-58	27.9	638.1	5000
		12-15-58	30.5	1321.1				11-29-58	28.7	637.3	
		1-19-59	27.9	1323.7				12-02-58	29.5	636.5	
		2-19-59	27.8	1323.8				1-08-59	28.5	637.5	
		3-17-59	27.3	1324.3	5001			2-03-59	16.5	649.5	
		3-18-59	28.5	1323.1	5000			3-05-59	15.6	650.4	
		4-21-59	27.3	1324.3				4-07-59	18.1	647.9	
		5-18-59	27.8	1323.8				5-12-59	21.8	644.2	
		6-22-59	28.6	1323.0				6-04-59	23.4	642.6	
18N/13W-19B01 M	1361.5	10-16-58	□		5050	15N/12W-21M01 M	590.5	10-03-58	10.1	580.4	5000
		3-18-59	□					10-29-58	10.0	580.5	
								12-02-58	9.4	581.1	
								1-08-59	6.0	584.5	
								2-03-59	1.9	588.6	
								3-05-59	1.5	589.0	
								4-07-59	2.5	588.0	
								5-12-59	4.6	585.9	
								6-04-59	□		
								10-00-58	□		5050
								10-29-58	15.2	584.8	5000
								12-02-58	14.4	585.6	
NORTH COASTAL REGION											
POTTER VALLEY											
17N/11W-18J01 M	956.0	10-13-58	1.6	954.4	5000	15N/12W-28R02 M	582.5	10-00-58	□		5050
		11-17-58	1.7	954.3		15N/12W-35M01 M	600.0	10-29-58	15.2	584.8	5000
		12-15-58	1.5	954.5				12-02-58	14.4	585.6	
		1-19-59	0.4	955.6							
		2-19-59	0.6	955.4							
		3-17-59	0.6	955.4							
		4-21-59	1.1	954.9							
		5-18-59	1.4	954.6							

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
NORTH COASTAL REGION											
UKIAH VALLEY											
ALEXANDER VALLEY											
15N/12W-35M01 M	600.0	1-08-59	1-15.00	594.1	5000	10N/09W-26L02 M	205.9	10-02-58	13.8	192.1	5000
CONT.		2-03-59	3.9	596.1				10-28-58	16.8	189.1	
		3-05-59	2.6	597.4				12-02-58	15.9	190.0	
		4-07-59	3.1	596.9				1-07-59	13.7	192.2	
		5-12-59	4.2	595.8				2-03-59	4.6	201.3	
		6-04-59	5.4	594.6				3-05-59	2.1	203.8	
SANEL VALLEY											
13N/11W-18E01 M	490.5	10-28-58	12.7	477.8	5000	10N/09W-33C01 M	182.5	10-02-58	9.8	172.7	5000
		12-02-58	12.2	478.3				10-28-58	9.9	172.6	
		1-07-59	11.3	479.2				12-02-58	9.9	172.6	
		2-03-59	10.3	480.2				1-07-59	7.9	174.6	
		3-05-59	8.9	481.6				2-03-59	7.2	175.3	
		4-07-59	11.1	479.4				3-05-59	4.1	178.4	
		5-12-59	12.5	478.0				4-07-59	8.8	173.7	
		6-04-59	□					5-11-59	10.3	172.2	
13N/11W-19P01 M	488.5	10-02-58	21.5	467.0	5000	11N/10W-08P01 M	306.0	10-02-58	12.6	293.4	5000
		10-28-58	18.7	469.8				10-28-58	13.2	292.8	
		12-02-58	19.1	469.4				12-02-58	12.6	293.4	
		1-07-59	13.1	475.4				1-07-59	12.5	293.5	
		2-03-59	8.9	479.6				2-03-59	9.4	296.6	
		3-05-59	8.1	480.4				3-05-59	7.1	298.9	
		4-07-59	8.8	479.7				4-07-59	10.9	295.1	
		5-12-59	11.7	476.8				5-12-59	12.8	293.2	
		6-04-59	13.4	475.1				6-03-59	13.2	292.8	
13N/11W-20G01 M	517.0	10-02-58	23.2	493.8	5000	11N/10W-17P02 M	292.5	10-02-58	9.5	283.0	5000
		10-28-58	16.0	501.0				10-28-58	12.4	280.1	
		12-02-58	15.3	501.7				12-02-58	9.5	283.0	
		1-07-59	7.8	509.2				1-07-59	8.7	283.8	
		2-03-59	5.8	511.2				2-03-59	7.0	285.5	
		3-05-59	5.9	511.1				3-05-59	5.5	287.0	
		4-07-59	5.8	511.2				4-07-59	8.2	284.3	
		5-12-59	6.8	510.2				5-12-59	9.4	283.1	
		6-04-59	8.6	508.4				6-03-59	9.8	282.7	
13N/11W-29D01 M	507.0	10-25-58	3.1	503.9	5000	11N/10W-19F02 M	347.5	10-02-58	13.9	333.6	5000
ALEXANDER VALLEY											
10N/09W-18B01 M											
	231.0	10-28-58	21.2	209.8	5000			10-28-58	14.5	333.0	
		12-01-58	22.5	208.5				12-02-58	13.6	333.9	
		1-07-59	19.4	211.6				1-07-59	13.3	334.2	
		2-03-59	17.4	213.6				2-03-59	5.2	342.3	
		3-05-59	16.4	214.6				3-05-59	4.8	342.7	
		4-07-59	18.2	212.8				4-07-59	5.4	342.1	
		5-12-59	□					5-12-59	5.8	341.7	
		6-03-59	□					6-03-59	8.5	339.0	

GROUND WATER LEVELS AT WELLS

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NORTH COASTAL REGION											
SANTA ROSA VALLEY											
SANTA ROSA AREA											
6N/07W-30M01 M	121.5	10-15-58 3-04-59	23.6 14.1	97.9 107.4	5050	8N/09W-36N01 M CONT.	90.2	10-27-58 12-01-58 1-06-59 2-02-59 3-03-59	10.5 10.5 7.4 5.5	79.7 79.7 82.8 84.7	5000
6N/08W-07P02 M	96.3	10-01-58 10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-03-59	29.7 26.7 25.7 25.4 18.7 17.4 15.5 19.4 21.4	66.6 69.6 70.6 70.9 77.6 78.9 80.8 76.9 74.9	5000	HEALDSBURG AREA					5000
6N/08W-13R01 M	116.2	10-01-58 10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-03-59	21.3 16.7 20.6 21.7 18.3 16.3 15.5 18.0 18.4	94.9 99.5 95.6 94.5 97.9 99.9 100.7 98.2 97.8	5000	8N/09W-03P01 M	78.0	10-01-58 10-28-58 12-02-58 1-07-59 2-03-59 3-05-59 4-07-59 5-12-59 6-03-59	6.7 6.2 13.9 13.2 9.7 13.4 16.4 5.8 6.4	71.3 71.8 64.1 64.8 68.3 64.6 61.6 72.2 71.6	5000
6N/08W-15J01 M	95.0	10-15-58 3-04-59	□ 6.9	88.1	5050	8N/09W-22L01 M	67.0	10-28-58 12-02-58 1-07-59 2-03-59 3-05-59 4-07-59 5-12-59 6-03-59	25.3 25.3 25.5 23.1 21.6 22.7 24.0 26.1	41.7 41.7 41.5 43.9 45.4 44.3 43.0 40.9	5000
7N/07W-06R01 M	276.0	10-15-58 3-03-59	14.6 11.8	261.4 264.2	5050	9N/09W-28N01 M	91.0	10-01-58 10-28-58 12-02-58 1-07-59 2-03-59 3-05-59 4-07-59 5-12-59 6-03-59	20.5 21.4 22.1 13.4 13.2 13.6 14.6 15.2 17.2	70.5 69.6 68.9 77.6 77.8 77.4 76.4 75.8 73.8	5000
7N/08W-20K01 M	99.1	10-01-58 10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-03-59	16.3 16.7 16.7 15.7 13.6 10.2 9.2 10.0 11.4	82.8 82.4 82.4 83.4 85.5 88.9 89.9 89.1 87.7	5000	9N/09W-34N01 M	87.3	10-28-58 12-02-58 1-07-59 2-03-59 3-05-59 4-07-59 5-12-59 6-03-59	22.4 22.6 20.2 20.0 19.0 21.0 □ □	64.9 64.7 67.1 67.3 68.3 66.3	5000
7N/08W-31C01 M	85.0	10-15-58 3-04-59	28.0 15.8	57.0 69.2	5050	10N/10W-35001 M	143.0	10-02-58	6.1	136.9	5000
7N/09W-35002 M	136.0	10-15-58 3-04-59	27.8 30.9	108.2 105.1	5050						
8N/08W-19E01 M	106.0	10-14-58 3-04-59	□ □		5050						
8N/09W-36N01 M	90.2	10-01-58	9.7	80.5	5000						

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
NORTH COASTAL REGION											
HEALDSBURG AREA											
10N/10W-35001 M	143.0	10-28-58	1-18.02	136.3	5000						
CONT.		12-02-58	6.7	136.1							
		1-07-59	□								
		2-03-59	2.3	140.7							
		3-05-59	2.0	141.0							
		4-07-59	3.1	139.9							
		5-12-59	3.9	139.1							
		6-03-59	5.0	138.0							
LOWER RUSSIAN RIVER VALLEY											
7N/10W-07D01 M	25.2	10-02-58	1-98.00	4.8	5000						
		10-28-58	20.4	2.4							
		12-02-58	22.8	4.6							
		1-06-59	25.2	0.0							
		2-02-59	23.4	1.8							
		3-04-59	24.7	0.5							
		4-06-59	20.5	4.7							
		5-11-59	17.5	7.7							
		6-03-59	21.4	3.8							
7N/11W-14E01 M	29.2	10-02-58	25.2	4.0	5000						
		10-28-58	22.2	7.0							
		12-02-58	20.5	8.7							
		1-06-59	18.8	10.4							
		2-02-59	21.5	7.7							
		3-04-59	10.9	18.3							
		4-06-59	21.6	7.6							
		5-11-59	18.0	11.2							
		6-03-59	23.3	5.9							
7N/11W-16M01 M	11.5	10-02-58	13.6	-	5000						
		10-20-58	12.5	-							
		12-02-58	11.1	0.4							
		1-06-59	10.0	1.5							
		2-02-59	12.7	-							
		3-04-59	12.4	-							
		4-06-59	12.3	-							
		5-11-59	14.0	-							
		6-03-59	14.0	-							

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data		
SAN FRANCISCO BAY REGION													
PETALUMA VALLEY						NAPA VALLEY							
			2-01.00							2-02.01			
3N/06W-01001 M	3.0	10-16-58 3-05-59	2.2 0.8	0.8 2.2	5050	7N/05W-09002 M CONT.	155.5	10-14-58 10-27-58 12-01-58 3-05-59	15.6 14.7 14.1 4.9	139.9 140.8 141.4 150.6	5000		
5N/07W-20802 M	42.0	10-01-58 10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-03-59	59.6 59.8 54.1 54.9 55.7 56.1 □ 86.9	- 17.8 16.8 12.1 12.9 13.7 14.1 - 44.9	5000	7N/05W-16802 M	155.5	10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-02-59	14.7 14.1 12.9 9.7 6.7 8.4 □ 15.1	140.8 141.4 142.6 145.8 148.8 147.1 - 140.4	5000		
5N/07W-26R01 M	53.9	10-10-58 3-05-59	24.1 30.9	29.8 23.0	5050	7N/05W-23D02 M	127.5	10-14-58 3-05-59	5.0 FLOW	122.5	5050		
NAPA-SONOMA VALLEY													
NAPA VALLEY						SONOMA VALLEY							
			2-02.00							2-02.02			
4N/04W-13E01 M	41.6	10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-02-59	13.6 13.4 13.6 13.3 12.5 12.4 13.1 13.1	28.0 28.2 28.0 28.3 29.1 29.2 28.5 28.5	5000	5N/05W-08001 M	107.5	9-30-58 10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-02-59	18.9 25.0 31.3 20.0 10.0 8.0 11.2 13.1 14.2	88.6 82.5 76.2 87.5 97.5 99.5 96.3 94.4 93.3	5000		
5N/04W-11M01 M	13.3	10-27-58 12-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-02-59	9.0 9.2 7.6 7.4 5.8 7.7 8.6 9.1	4.3 4.1 5.7 5.9 7.5 5.6 4.7 4.2	5000	5N/05W-17C01 M	85.6	10-16-58 3-05-59	13.8 12.9	71.8 72.7	5050		
6N/04W-17A01 M	67.5	10-01-58 1-06-59 2-02-59 3-04-59 4-06-59 5-11-59 6-02-59	13.5 13.6 13.8 11.3 6.6 7.3 □ 14.9	54.0 53.9 53.7 56.2 60.9 60.2 - 52.6	5000	5N/05W-28N01 M	11.4	10-16-58 3-05-59	□ 17.8	- 6.4	5050		
7N/05W-09001 M	155.8	10-14-58 3-05-59	16.5 3.7	139.3 152.1	5050	5N/05W-29N01 M	16.1	9-30-58 10-27-58 12-01-58 1-06-59 2-02-59 3-04-59	25.5 25.6 13.9 12.5 11.9 8.4	- - 2.2 3.6 3.6 7.7	5000		
7N/05W-09002 M	155.5	9-30-58	17.2	138.3	5000								

GROUND WATER LEVELS AT WELLS

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SAN FRANCISCO BAY REGION											
SONOMA VALLEY						YGNACIO VALLEY					
2-02.02						2-06.00					
5N/05W-29N01 M CONT.	16.1	4-06-59	9.2	6.9	5000	1N/01W-07K01 M CONT.	83.8	8-12-58	9.2	74.6	5050
		5-11-59	12.0	4.1				10-16-58	11.9	71.9	
		6-02-59	11.3	4.8				11-14-58	15.0	68.8	
								12-10-58	9.1	74.7	
5N/06W-14C01 M	112.6	10-27-58	57.1	55.5	5000			1-02-59	9.2	74.6	
		12-01-58	56.8	55.8				2-09-59	8.1	75.7	
		1-06-59	55.4	57.2				3-20-59	7.7	76.1	
		2-02-59	54.0	58.6				4-07-59	7.9	75.9	
		3-04-59	50.3	62.3				5-07-59	7.6	76.2	
		4-06-59	46.0	66.6				6-04-59	8.5	75.3	
		5-11-59	49.7	62.9							
		6-02-59	49.4	63.2				10-16-58	14.6	48.4	5050
								3-23-59	12.5	50.5	
SUISUN-FAIRFIELD VALLEY											
2-03.00											
4N/02W-06A01 M	37.3	10-08-58	24.4	12.9	5050	2N/02W-27R01 M	15.0	8-12-58	3.2	11.8	5050
		3-05-59	22.2	15.1				10-16-58	7.8	7.2	
								11-14-58	8.9	6.1	
								12-10-58	4.0	11.0	
4N/02W-09A01 M	7.5	10-08-58	6.7	0.8	5050			1-02-59	4.5	10.5	
		3-05-59	6.1	1.4				2-08-59	3.5	11.5	
								3-20-59	4.1	10.9	
								4-07-59	4.7	10.3	
4N/03W-01D01 M	37.2	10-08-58	12.4	24.8	5050			5-07-59	4.2	10.8	
		3-05-59	7.2	30.0				6-04-59	5.4	9.6	
5N/01E-36A01 M	24.0	10-09-58	11.4	12.6	5050	2N/02W-36E01 M	48.5	10-16-58	16.0	32.5	5050
		3-02-59	8.9	15.1				3-23-59	14.8	33.7	
5N/01W-07E01 M	115.6	10-08-58	14.4	101.2	5050	SANTA CLARA VALLEY					
		3-05-59	17.1	98.5		SOUTH ALAMEDA COUNTY UPR AQUIFER					
						2-09.00					
5N/01W-28P01 M	15.0	3-04-59	5.8	9.2	5050	2-09.01					
						SOUTH ALAMEDA COUNTY LWR AQUIFER					
5N/02W-27J02 M	24.0	10-08-58	27.6	- 3.6	5050	3S/02W-08R05 M	64.0	10-27-58	□	5100	
		3-05-59	25.4	- 1.4				4-02-59	□		
5N/02W-29R01 M	46.5	10-08-58	68.7	- 22.2	5000	3S/03W-24Q02 M	9.0	10-28-58	8.3	0.7	5050
		10-29-58	59.9	- 7.4							
		12-03-58	47.1	- 0.6		4S/01W-22P05 M	81.0	10-21-58	39.4	41.6	5050
		1-06-59	44.4	2.1							
		2-02-59	43.1	3.4		4S/02W-02Q01 M	24.0	10-22-58	105.7	- 81.7	5050
		3-04-59	41.0	5.5							
		3-05-59	42.4	4.1		4S/02W-24Q02 M	31.4	10-20-58	53.7	- 22.3	5050
		4-06-59	41.5	5.0							
		5-11-59	□			5S/01W-09Q01 M	20.0	10-22-58	31.7	- 11.7	5050
								3-30-59	32.3	- 12.3	
5N/03W-26F02 M	111.2	10-08-58	20.2*	91.0	5050	SOUTH ALAMEDA COUNTY LWR AQUIFER					
		3-05-59	6.2	105.0		2-09.01					
						SOUTH ALAMEDA COUNTY UPR AQUIFER					
2-06.00											
YGNACIO VALLEY											
1N/01W-07K01 M	83.8	7-21-58	9.7	74.1	5050	3S/02W-07D01 M	33.0	8-14-58	□	5050	
								10-27-58	72.2	- 39.2	

GROUND WATER LEVELS AT WELLS

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SAN FRANCISCO BAY REGION											
SOUTH ALAMEDA COUNTY LWR AQUIFER						SOUTH ALAMEDA COUNTY LWR AQUIFER					
			2-09.01						2-09.01		
3S/03W-24J01 M	12.0	10-28-58 4-02-59	98.9 78.6	86.9 66.6	5050	5S/01W-02C01 M CONT.	152.9	11-13-58 11-20-58 12-18-58 1-15-59 2-20-59 3-30-59 4-03-59	69.0 116.8 114.2 112.5 109.2 56.3 60.0	83.9 36.1 38.7 40.4 43.7 96.6 92.9	5500
4S/01W-18G01 M	41.7	10-24-58 11-20-58 12-19-58 1-23-59 2-20-59 3-20-59 4-17-59 5-22-59 6-19-59	70.3 69.9 69.7 68.1 69.7 62.4 64.8 70.2 74.5	28.6 28.2 28.0 26.4 28.0 20.7 23.1 28.5 32.8	5500	5S/01W-09M01 M	15.7	10-23-58 11-13-58 3-30-59 4-03-59	76.2 69.0 56.3 60.0	60.5 53.3 40.6 44.3	5050
4S/01W-30H04 M	51.2	7-17-58 8-14-58 11-02-58 1-13-59 2-18-59 3-17-59 4-21-59 5-11-59	80.7 87.5 80.7 88.5 73.7 68.9 69.3 71.7	29.5 36.3 29.5 37.3 22.5 17.7 18.1 20.5	5050	5S/02W-02B01 M	14.1	10-21-58	13.9	0.2	5050
4S/02W-13C02 M	38.4	10-22-58 11-05-58	105.7 58.0	67.3 19.6		NORTH SANTA CLARA COUNTY					
4S/02W-35R02 M	17.2	10-20-58 11-17-58 12-16-58 1-16-59 2-20-59 3-20-59 4-10-59 5-22-59 6-19-59	71.0 60.6 72.0 51.1 45.9 51.4 61.3 76.7 89.3	53.8 43.4 54.8 28.7 34.2 44.1 59.5 72.1	5500	6S/01E-07E01 M	16.0	7-24-58 8-15-58 9-19-58 10-24-58 11-20-58 12-12-58 1-23-59 2-16-59 3-19-59 5-04-59	117.7 105.0 108.5 86.0 69.8 62.7 47.6 41.8 44.9 77.2	101.7 89.0 92.5 70.0 53.8 46.7 31.6 25.8 28.9 61.2	2400
4S/02W-36K01 M	25.6	7-17-58 8-21-58 9-22-58 10-20-58 11-17-58 11-20-58 12-23-58 1-20-59 2-17-59 3-17-59 4-20-59 5-18-59 6-19-59	77.0 86.0 83.3 80.0 70.1 72.4 68.8 60.3 55.7 54.7 72.7 83.6 92.0	52.0 61.0 58.3 55.0 45.1 47.4 43.8 35.3 30.7 29.7 47.7 58.6 67.0	5050	6S/01E-23P02 M	245.0	7-23-58 8-14-58 9-18-58 10-23-58 11-19-58 12-11-58 1-22-59 2-13-59 3-18-59 5-01-59	143.5 146.6 149.3 152.0 153.4 154.6 155.7 156.3 153.5 153.6	101.5 98.4 95.7 93.0 91.6 90.4 89.3 88.7 91.5 91.4	2400
5S/01W-02C01 M	152.9	10-20-58	118.9	34.0	5500	6S/01W-10P02 M	10.0	10-27-58	81.1	71.1	5000

GROUND WATER LEVELS AT WELLS

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SAN FRANCISCO BAY REGION											
NORTH SANTA CLARA COUNTY											
6S/01W-10P02 M CONT.	10.0	11-25-58	61.1	- 51.1	5000	6S/02W-25C01 M CONT.	82.5	8-18-58	2-09.02	-	2400
		12-18-58	53.0	- 43.0				9-22-58	139.7	- 57.2	
		1-16-59	44.1	- 34.1				10-27-58	□		
		2-17-59	36.6	- 26.6				11-21-58	127.5	- 45.0	
		3-12-59	33.8	- 23.8				12-15-58	124.4	- 41.9	
		4-09-59	49.0	- 39.0				1-26-59	116.6	- 34.1	
		5-29-59	79.3	- 69.3				2-17-59	112.8	- 30.3	
		6-27-59	117.9	- 107.9				3-20-59	124.5	- 42.0	
		7-25-58	134.4	- 104.4	2400			5-05-59	□		
		8-18-58	□					6-10-59	□		
		9-22-58	130.6	- 100.6				7-28-58	231.6	- 83.6	2400
		10-27-58	113.2	- 83.2				8-19-58	□		
		11-21-58	103.9	- 73.9				9-23-58	242.3	- 94.3	
		12-15-58	98.4	- 68.4				10-27-58	□		
		1-26-59	88.7	- 58.7				11-24-58	211.9	- 63.9	
		2-16-59	82.8	- 52.8				12-16-58	217.0	- 69.0	
		3-20-59	88.6	- 58.6				1-27-59	198.5	- 50.5	
		5-05-59	108.3	- 78.3				2-17-59	198.0	- 50.0	
		6-10-59	128.0	- 98.0				3-23-59	203.4	- 55.4	
		1-16-59	50.6	- 26.6	5000			5-05-59	209.3	- 61.3	
6S/01W-23E01 M	24.0	2-17-59	43.6	- 19.6				7-22-58	216.2	- 40.2	2400
		3-12-59	42.6	- 18.6				8-14-58	217.4	- 41.4	
		4-09-59	63.4	- 39.4				9-18-58	217.2	- 41.2	
		5-29-59	89.8	- 65.8				10-22-58	221.0	- 45.0	
		6-27-59	126.2	- 102.2				11-18-58	218.0	- 42.0	
		7-25-58	168.2	- 87.2	2400			12-10-58	223.5	- 47.5	
6S/01W-32001 M	81.0	8-18-58	175.7	- 94.7				1-22-59	221.9	- 45.9	
		9-23-58	172.0	- 91.0				2-11-59	217.2	- 41.2	
		10-27-58	161.8	- 80.8				3-17-59	206.7	- 30.7	
		11-21-58	153.5	- 72.5				4-30-59	212.5	- 36.5	
		12-15-58	134.7	- 53.7				7-01-58	123.6	- 34.6	2400
		1-26-59	131.4	- 50.4				8-04-58	116.7	- 27.7	
		2-17-59	119.6	- 38.6				9-03-58	120.0	- 31.0	
		3-23-59	123.3	- 42.3				10-01-58	125.4	- 36.4	
		7-28-58	135.7	- 83.2	2400			11-05-58	104.6	- 15.6	
6S/02W-16R01 M	52.5	8-19-58	133.5	- 81.0				12-02-58	100.9	- 11.9	
		9-23-58	123.8	- 71.3				1-12-59	92.0	- 3.0	
		10-27-58	120.6	- 68.1				2-02-59	87.4	- 1.6	
		11-24-58	114.3	- 61.8				3-02-59	83.2	- 5.8	
		12-16-58	112.8	- 60.3				4-27-59	94.3	- 5.3	
		1-27-59	104.7	- 52.2				7-03-58	138.0	- 39.0	5000
		2-17-59	103.6	- 51.1				7-30-58	143.0	- 44.0	
		3-23-59	103.9	- 51.4				8-20-58	147.0	- 48.0	
		5-05-59	124.5	- 72.0				9-25-58	155.0	- 56.0	
		7-25-58	□		2400			10-29-58	149.0	- 50.0	
6S/02W-25C01 M	82.5							11-26-58	140.0	- 41.0	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	
SAN FRANCISCO BAY REGION												
NORTH SANTA CLARA COUNTY						SAN FRANCISCO BAY TERRACE						
			2-09.02							2-22.00		
9S/02E-01M01 M CONT.	287.5	11-12-58 12-08-58 1-16-59 2-06-59 3-12-59 4-27-59 6-02-59	17.6 16.3 15.2 15.0 12.9 15.6 19.7	269.9 271.2 272.3 272.5 274.6 271.9 267.8	2400	5S/05W-29N01 M CONT.	46.5	5-07-59 6-05-59	34.3 □	12.2	5050	
LIVERMORE VALLEY												
2S/02E-25N01 M	556.6	4-01-59	10.9	545.7	5100	6S/05W-08B01 M	108.0	10-16-58 3-25-59	□ 62.4	45.6	5050	
2S/01W-26C01 M	556.6	4-03-59	38.9	517.7	5100	SAN GREGORIO VALLEY						
3S/01E-02E01 M	362.0	4-01-59	19.0	343.0	5100	7S/05W-13E01 M	80.4	7-22-58 8-14-58 9-12-58 10-16-58 11-14-58 12-12-58 1-13-59 2-10-59 3-20-59 4-07-59 5-07-59 6-04-59	11.4 11.5 11.9 12.4 13.5 11.4 8.6 11.3 10.6 10.0 11.6 12.1	69.0 68.9 68.5 68.0 66.9 69.0 71.8 69.1 69.8 70.4 68.8 68.3	5050	
3S/02E-02R01 M	562.8	4-02-59	107.0	455.8	5100	HALF MOON BAY TERRACE						
3S/02E-10H01 M	584.9	3-03-58 4-02-59	103.2 □	481.7	5100	7S/05W-15C01 M	80.0	7-22-58 8-14-58 9-12-58 10-16-58 11-14-58 12-12-58 1-13-59 2-10-59 3-20-59 4-07-59 5-07-59 6-05-59	5.7 6.2 0.3 6.6 6.2 □ 4.9 16.6 □ 17.7 19.9	74.3 73.8 79.7 73.4 73.8 75.1 63.4	5050	
HALF MOON BAY TERRACE												
5S/05W-18P01 M	40.5	10-16-58 3-25-59	9.8 5.1	30.7 35.4	5050	7S/05W-15E01 M	76.0	10-16-58 3-25-59	4.8 11.1	71.2 64.9	5050	
5S/05W-20L01 M	80.5	7-22-58 8-14-58 10-16-58 11-14-58 12-12-58 1-05-59 2-10-59 3-20-59 4-07-59 5-07-59 6-05-59	10.2 10.4 18.1 19.5 19.3 18.9 16.5 15.4 17.2 15.6 17.3	70.3 70.1 62.4 61.0 61.2 61.6 64.0 65.1 63.3 64.9 63.2	5050	PESCADERO VALLEY						
5S/05W-29N01 M	46.5	7-22-58 8-14-58 9-12-58 10-16-58 11-14-58 12-12-58 1-05-59 2-10-59 3-20-59 4-07-59	35.5 36.7 46.2 37.0 38.1 35.5 35.0 27.3 31.1 33.7	11.0 9.8 0.3 9.5 8.4 11.0 11.5 19.2 15.4 12.8	5050	8S/05W-09H01 M	20.0	7-22-58 8-14-58 9-12-58 10-16-58 11-14-58 12-12-58 1-13-59 2-10-59	5.2 5.1 5.5 6.3 6.1 3.3 4.9	14.8 14.9 14.5 14.1 13.7 13.9 16.7 15.1	5050	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev. in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev. in feet	Agency Supplying Data	
SAN FRANCISCO BAY REGION												
PASCADERO VALLEY												
2-26.00												
85/05W-09H01 M CONT.	20.0	3-20-59	5.2	14.8	5050							
		4-07-59	5.1	14.9								
		5-07-59	5.3	14.7								
		6-05-59	5.4	14.6								
		7-22-58	10.1	40.4			5050					
85/05W-11P01 M	50.5	8-14-58	9.8	40.7								
		9-12-58	9.6	40.9								
		10-16-58	10.1	40.4								
		11-14-58	10.6	39.9								
		12-12-58	9.9	40.6								
		1-13-59	9.4	41.1								
		2-10-59	9.3	41.2								
		3-20-59	8.9	41.6								
		4-07-59	10.3	40.2								
		5-07-59	9.9	40.6								
	6-05-59	10.2	40.3									

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL COASTAL REGION											
SOQUEL VALLEY						PAJARO VALLEY					
11S/01W-09L01 M	125.0	7-22-58	3-01.00	58.2	5050	12S/02E-16J01 M	21.3	7-21-58	3-02.00	10.4	5050
		8-14-58	66.8	59.8				8-13-58	10.9		
		9-12-58	65.2	57.5				9-12-58	□		
		10-15-58	67.5	56.9				10-15-58	18.5	2.8	
		11-14-58	67.9	57.1				11-13-58	18.9	2.4	
		12-11-58	61.3	63.7				12-11-58	13.8	7.5	
		1-05-59	60.1	64.9				1-13-59	10.9	10.4	
		2-10-59	60.4	64.6				2-10-59	10.0	11.3	
		3-20-59	61.8	63.2				3-19-59	14.4	6.9	
		4-07-59	62.9	62.1				4-07-59	14.0	7.3	
		5-07-59	59.4	65.6				5-07-59	□		
		6-04-59	60.9	64.1				6-04-59	29.9	8.6	
11S/01W-21H01 M	39.3	7-22-58	25.7	13.6	5050	12S/02E-17R01 M	20.2	7-21-58	10.1	10.1	5050
		9-12-58	23.2	16.1				8-13-58	26.8	6.6	
		10-15-58	23.1	16.2				9-12-58	19.5	0.7	
		11-14-58	24.6	14.7				10-15-58	18.0	2.2	
		12-11-58	23.3	16.0				11-13-58	17.0	3.2	
		1-13-59	21.9	17.4				12-11-58	12.6	7.6	
		2-10-59	23.0	16.3				1-05-59	13.1	7.1	
		3-20-59	26.7	12.6				2-10-59	8.9	11.3	
		4-07-59	26.1	13.2				3-19-59	15.5	4.7	
		5-07-59	25.1	14.2				4-07-59	□		
		6-05-59	23.2	16.1				5-07-59	15.1	5.1	
WEST SANTA CRUZ TERRACE			3-26.00					6-04-59	27.8	7.6	
11S/02W-20C01 M	120.0	7-22-58	□		5050	12S/02E-31K01 M	30.0	7-21-58	26.8	3.2	5050
		8-14-58	□					8-13-58	□		
		9-12-58	□					9-12-58	□		
		3-20-59	□					10-15-58	36.1*	6.1	
11S/02W-22K01 M	30.8	10-15-58	□		5050			11-13-58	34.1	4.1	
		3-20-59	30.0	0.8				11-25-58	31.0	1.0	
		3-25-59	48.6	17.8				12-11-58	□		
PAJARO VALLEY			3-02.00					1-13-59	26.0	4.0	
12S/01E-24G01 M	9.8	7-21-58	4.1	5.7	5050	13S/02E-05B01 M	136.4	9-12-58	85.0	51.4	5050
		8-13-58	19.7	9.9				10-15-58	96.9	39.5	
		9-12-58	15.6	5.8				11-13-58	95.4	41.0	
		10-15-58	19.1	9.3				12-11-58	137.1	0.7	
		11-13-58	20.0	10.2				1-05-59	□		
		12-11-58	9.4	0.4				2-10-59	134.3	2.1	
		1-05-59	9.2	0.6				3-19-59	135.6	0.8	
		2-10-59	3.3	6.5				4-07-59	137.1	0.7	
		3-19-59	8.3	1.5				5-07-59	134.5	1.9	
		4-07-59	9.3	0.5				6-04-59	DRY		
		5-07-59	8.6	1.2							
		6-04-59	22.4	12.6				10-15-58	33.6	7.2	5050

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL COASTAL REGION											
PAJARO VALLEY											
SOUTH SANTA CLARA COUNTY											
13S/02E-06R01 M CONT.	26.4	11-25-58 3-24-59	3-02.00	- 1.8 - 0.6	5050	10S/04E-18G02 M CONT.	261.1	4-08-59 5-08-59 6-04-59	3-03.01	205.0 206.6 198.4	5050
GILROY-HOLLISTER VALLEY											
SOUTH SANTA CLARA COUNTY											
9S/03E-27C02 M	347.3	7-17-58 8-11-58 9-15-58 10-20-58 11-13-58 12-08-58 1-16-59 2-09-59 3-13-59 4-28-59 6-03-59 6-30-59	3-03.00	274.3 278.1 283.4 286.1 288.0 293.9 289.3 282.8 281.1	2400	10S/04E-35E01 M	248.0	10-15-58 3-23-59	73.2	174.8	5050
9S/03E-29B01 M	398.0	10-15-58 3-23-59	20.9 2.9	377.1 395.1	5050	SAN BENITO COUNTY					
10S/03E-13R01 M	246.0	7-00-58 11-00-58 1-00-59 3-00-59	41.0 37.7 40.0 29.4	205.0 208.3 206.0 216.6	5050	11S/03E-01B01 M	227.3	7-00-58 11-00-58	53.0 43.2	174.3 184.1	5400
10S/03E-34L01 M	250.0	7-21-58 8-13-58 9-12-58 10-15-58 11-13-58 12-10-58 1-05-59 2-11-59 3-19-59 4-08-59 5-08-59 6-04-59	10.2 9.3 9.3 10.5 10.8 10.1 10.0 7.9 8.5 9.1 9.3	239.8 240.7 240.7 239.5 239.2 239.9 240.0 242.1 241.5 240.9 240.7	5050	11S/05E-13D01 M	256.3	8-13-58 9-12-58 10-15-58 11-13-58 12-10-58 1-05-59 2-11-59 3-19-59 4-00-59 5-08-59 6-04-59	22.5 22.9 24.0 26.1 22.5 22.4 23.9 21.4 23.9 23.1 23.2 24.4	233.8 233.4 232.3 230.2 233.8 233.9 231.9 234.9 235.1 233.1 231.9	5101
10S/04E-18G02 M	261.1	7-21-58 8-13-58 9-12-58 10-15-58 11-13-58 12-10-58 1-05-59 2-11-59 3-19-59 4-00-59 3-19-59	105.0 58.0 67.7 67.1 65.0 55.8 55.9 50.1	156.1 203.1 193.4 194.0 196.1 205.3 205.2 211.0	5050	12S/05E-26N02 M	204.3	4-00-59	24.8	128.6	5101
CENTRAL COASTAL REGION											
SOUTH SANTA CLARA COUNTY											
12S/04E-20C01 M	153.4	11-20-58 4-00-59	33.8	119.6		12S/05E-12F01 M	217.3	8-13-58 9-12-58 10-15-58 11-13-58 12-10-58 1-05-59 2-11-59 3-19-59 4-00-59 5-08-59 6-04-59	64.6 68.7 74.8 77.9 68.3 67.9 66.8 66.2 59.7 60.6 61.4 68.0 83.2	152.7 148.6 142.5 139.4 149.0 149.4 150.5 151.1 157.6 156.7 155.9 149.3 134.1	5101
12S/05E-28N01 M	250.8	11-21-58 4-00-59	41.4	209.4		12S/05E-33A01 M	280.0	8-13-58	280.0	209.4	5101

GROUND WATER LEVELS AT WELLS

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CENTRAL COASTAL REGION											
SAN BENITO COUNTY											
PRESSURE AREA 400 FOOT AQUIFER											
12S/05E-33A01 M CONT.	280.0	9-12-58	3-03.02		5101	14S/03E-18J01 M	72.0	8-13-58	3-04.01		2100
		10-15-58	□					10-00-58	□	4.0	
		11-13-58	58.6	221.4				11-14-58	76.0	2.2	
		12-11-58	58.3	221.7				12-00-58	69.8	7.5	
		1-05-59	57.9	222.1				1-00-59	60.8	11.2	
		3-19-59	54.9	225.1				2-00-59	59.0	13.0	
		4-08-59	55.5	224.5				3-18-59	60.2	11.8	
		5-08-59	55.9	224.1				4-00-59	74.4	2.4	
		6-04-59	□					5-00-59	77.5	5.5	
								6-00-59	83.0	11.0	
13S/05E-11001 M	325.9	11-24-58	19.5	306.4	5101	EAST SIDE AREA			3-04.02		
		4-00-59	18.0	307.9							
13S/06E-19C01 M	527.5	11-20-58	164.0	363.5	5101	14S/03E-15K01 M	120.6	8-13-58	48.8	71.8	2100
		4-00-59	□					10-00-58	44.5	76.1	
SALINAS VALLEY											
PRESSURE AREA 180 FOOT AQUIFER											
14S/02E-03C01 M	11.2	8-03-58	28.2	17.0	2100			11-12-58	44.3	76.3	
		11-25-58	14.7	3.5				12-00-58	47.7	72.9	
		3-18-59	7.7*	3.5				1-00-59	46.0	74.6	
								2-00-59	45.0	75.6	
								3-16-59	47.1	73.5	
								4-00-59	45.4	75.2	
								5-00-59	□		
								6-00-59	□		
14S/02E-15L01 M	24.0	8-03-58	38.2	14.2	2100	16S/05E-17R01 M	181.0	11-24-58	111.0	70.0	2100
		3-18-59	17.2	6.8				3-05-59	102.5	78.5	
								3-06-59	74.2	316.8	
15S/02E-01Q01 M	43.3	8-13-58	□		2100	FOREBAY AREA			3-04.03		
		10-00-58	41.9	1.4				10-00-58	55.8	116.2	2100
		11-17-58	34.8	8.5				10-31-58	55.3	116.7	
		12-00-58	29.2	14.1				12-00-58	53.5	118.5	
		1-00-59	26.0	17.3				1-00-59	52.9	119.1	
		2-00-59	23.7	19.6				2-00-59	52.4	119.6	
		3-13-59	26.4	16.9				3-04-59	52.0	120.0	
		4-00-59	□					4-00-59	□		
		5-00-59	57.2	13.9				5-00-59	55.5	116.5	
		6-00-59	□					6-00-59	□		
15S/03E-16M01 M	58.0	3-09-59	29.2	28.8	2100			10-28-58	36.2	185.8	2100
15S/04E-33A01 M	125.0	11-06-58	81.2	43.8	2100	18S/07E-18P01 M	222.0	3-02-59	28.6	193.4	
		3-06-59	76.5	48.5							
16S/04E-11D01 M	112.0	11-05-58	48.0	64.0	2100	ARROYO SECO CONE			3-04.04		
PRESSURE AREA 400 FOOT AQUIFER											
13S/02E-31Q01 M	11.3	8-03-58	□		2100	17S/06E-32E01 M	168.0	10-00-58	6.0	162.0	2100
		12-02-58	17.0	5.7				11-21-58	6.0	162.0	
		3-20-59	10.8	0.5				12-00-58	6.0	162.0	
								1-00-59	5.6	162.4	
								2-00-59	4.6	163.4	

GROUND WATER LEVELS AT WELLS

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CENTRAL COASTAL REGION											
ARROYO SECO CONE											
17S/06E-32E01 M CONT.	168.0	3-03-59 4-00-59 5-00-59 6-00-59	3-04.04 3.6 □ 6.0 6.3	164.4 162.0 161.7	2100	165/01E-25B01 M CONT.	139.5	8-13-58 9-11-58 10-15-58 11-13-58 12-11-58	13.0 12.8 13.6 13.8 13.0	126.5 126.7 125.9 125.7 126.5	5050
18S/06E-15M01 M	275.0	11-21-58 3-03-59	94.3 83.4	180.7 191.6	2100			1-05-59 2-10-59 3-19-59	12.8 12.6 12.9	126.7 126.9 126.6	
19S/06E-11C01 M	375.0	10-27-58 3-02-59	163.2 152.8	211.8 222.2	2100			4-08-59 5-07-59 6-04-59	14.5 12.5 14.7	125.0 127.0 124.8	
UPPER VALLEY AREA											
19S/07E-10P01 M	315.0	10-00-58 10-30-58 12-00-58 1-00-59 2-00-59 3-12-59 4-00-59 5-00-59 6-00-59	82.5 83.2 82.0 82.5 80.2 80.7 □ 86.7 89.0	232.5 231.8 233.0 232.5 234.8 234.3	2100						
20S/08E-05R01 M	337.0	10-30-58 3-11-59	64.3 64.4	272.7 272.6	2100						
21S/09E-06K01 M	340.0	10-29-58 3-11-59	12.2 11.8	327.8 328.2	2100						
21S/10E-32N01 M	420.0	11-20-58 3-11-59	21.6 20.6	398.4 399.4	2100						
22S/10E-16K01 M	472.0	10-29-58 3-11-59	70.3 67.3	401.7 404.7	2100						
CARMEL VALLEY											
16S/01E-21A01 M	72.0	7-21-58 8-13-58 9-11-58 10-15-58 11-13-58 12-11-58 1-12-59 2-10-59 3-19-59 4-18-59 5-07-59 6-04-59	12.7 □ 12.4 13.8 14.5 12.5 10.3 10.8 □ 12.8 □ □	59.3 59.6 58.2 57.5 59.5 61.7 61.2	5050						
16S/01E-25B01 M	139.5	7-21-58	11.1	128.4	5050						

GROUND WATER LEVELS AT WELLS

CENTRAL VALLEY REGION				CENTRAL VALLEY REGION								
State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	
REDDING BASIN				REDDING BASIN								
			5-06.00						5-06.00			
29N/03W-01A01 M	455.0	10-08-58 3-02-59	78.4 75.9	376.6 379.1	5050	30N/05W-03Q01 M	740.0	3-05-59	102.8	637.2	5050	
29N/03W-04R01 M	400.0	10-08-58 3-02-59	52.0 45.8	348.0 354.2	5050	30N/05W-15R01 M	760.0	10-07-58 3-05-59	195.2 189.6	564.8 570.4	5050	
29N/04W-30L01 M	490.0	10-08-58 3-06-59	54.0 46.3	436.0 443.7	5050	31N/03W-12E01 M	525.0	10-07-58 3-03-59	41.3 41.6	483.7 483.4	5050	
29N/05W-11A02 M	512.0	8-05-58 9-11-58 11-07-58 12-10-58 1-15-59 2-05-59 3-05-59 4-07-59 5-05-59 6-03-59	58.9 61.2 48.9 51.8 45.6 47.8 44.8 54.8 52.3 □	453.1 450.8 463.1 460.2 466.4 464.2 467.2 457.2 459.7 □	5050	31N/03W-18B01 M	458.0	10-07-58 3-04-59	43.8 40.3	414.2 417.7	5050	
30N/03W-06J01 M	404.0	10-06-58 3-05-59	20.3 16.8	383.7 387.2	5050	31N/03W-29N01 M	417.0	8-05-58 9-11-58 11-07-58 12-10-58 1-15-59 2-05-59 3-04-59 4-07-59 5-05-59 6-03-59	22.1 21.7 21.1 20.8 18.9 21.0 20.0 20.3 21.2 22.0	394.9 395.3 395.9 396.2 398.1 396.0 397.0 396.7 395.8 395.0	5050	
30N/03W-17N03 M	390.0	8-05-58 9-11-58 11-07-58 12-10-58 1-15-59 2-05-59 3-05-59 4-07-59 5-05-59 6-03-59	7.5 6.9 8.6 7.3 7.0 7.2 7.1 10.4 12.6 13.1	382.5 383.1 381.4 382.7 383.0 382.8 382.9 379.6 377.4 376.9	5050	31N/04W-11C03 M	517.0	10-07-58 3-04-59	72.4 73.9	444.6 443.1	5050	
30N/04W-02J02 M	475.4	10-06-58 3-05-59	69.2 71.5	406.2 403.9	5050	31N/04W-15K01 M	516.0	8-05-58 9-11-58 11-07-58 12-10-58 1-15-59 2-05-59 3-04-59 4-08-59 5-05-59 6-03-59	102.4 98.8 97.1 95.9 95.5 97.7 95.8 98.1 99.8 99.9	413.6 417.2 418.9 420.1 420.5 418.3 420.2 417.9 416.2 416.1	5050	
30N/04W-06B03 M	453.0	8-05-58 9-11-58 11-07-58 12-10-58 1-15-59 2-05-59 3-05-59 4-07-59 5-05-59 6-03-59	47.3 48.5 48.2 49.5 46.3 47.0 47.6 47.4 47.9 4.1	405.7 404.5 404.8 403.5 406.7 406.0 405.4 405.6 405.1 405.9	5050	31N/04W-21M01 M	453.0	10-07-58 3-04-59	15.4 10.8	437.6 442.2	5050	
30N/04W-14C02 M	410.0	10-07-58	4.1	405.9	5050	32N/03W-32E02 M	521.0	10-06-58 3-03-59	75.4 62.3	445.6 458.7	5050	
30N/05W-03Q01 M	740.0	10-07-58	101.1	638.9	5050	32N/04W-25R01 M	642.5	10-06-58 3-03-59	117.1 107.8	525.4 534.7	5050	
						32N/04W-34P01 M	622.0	10-06-58 3-03-59	160.3 148.6	461.7 473.4	5050	
						UPPER LAKE VALLEY						
						15N/09W-07G01 M	1346.8	7-11-58	28.4	1318.4	5050	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
UPPER LAKE VALLEY						SCOTT VALLEY					
15N/09W-07G01 M	1346.8	8-07-58	30.7	1316.1	5050	14N/10W-22A01 M	1464.4	3-05-59	11.1	1453.3	5050
CONT.		9-03-58	18.6	1328.2							
		10-04-58	□			KELSEYVILLE VALLEY			5-15.00		
		11-06-58	15.1*	1331.7		13N/09W-02C02 M	1345.7	7-11-58	18.7	1327.0	5050
		12-08-58	9.7	1337.1				10-02-58	19.1	1326.6	
		1-16-59	8.1	1338.7		13N/09W-14D01 M	1377.3	3-16-59	12.0	1333.7	5050
		2-06-59	6.3	1340.5				10-02-58	14.8	1362.5	5050
		3-05-59	5.5	1341.3				3-16-59	12.2	1365.1	
		4-09-59	□			13N/09W-20P01 M	1414.0	7-11-58	9.2	1404.8	5050
		5-05-59	8.0	1338.8				8-07-58	13.2	1400.8	
		6-01-59	14.8	1332.0				9-04-58	16.5	1397.5	
15N/10W-03D01 M	1362.2	10-02-58	9.6	1352.6	5050			10-03-58	15.1	1398.9	
		3-05-59	8.2	1354.0				11-06-58	13.9	1400.1	
16N/09W-31Q01 M	1385.5	10-02-58	10.7	1374.8	5050			12-08-58	13.8	1400.2	
		3-05-59	6.1	1379.4				1-06-59	11.5	1402.5	
SCOTT VALLEY			5-14.00					2-06-59	9.3	1404.7	
14N/10W-10Q01 M	1432.1	7-19-58	9.5	1422.6	5050			3-17-59	9.4*	1404.6	
		7-21-58	9.5	1422.6				4-09-59	9.9	1404.1	
		8-07-58	10.3	1421.8				5-06-59	7.0	1407.0	
		9-05-58	11.0	1421.1				10-02-59	19.1	1394.9	
		10-03-58	12.9	1419.2		14N/09W-32M01 M	1335.9	10-02-58	13.7	1322.2	5050
		11-06-58	□					3-16-59	5.9	1330.0	
		12-08-58	11.5	1420.6				9-30-59	15.8	1320.1	
		1-16-59	10.8	1421.3							
		2-06-59	6.7	1425.4		14N/09W-33K01 M	1337.4	7-23-58	12.3	1325.1	5050
		3-16-59	7.0	1425.1				8-07-58	12.6	1324.8	
		4-09-59	8.1	1424.0				9-04-58	11.9	1325.5	
		5-06-59	7.1	1425.0				10-03-58	14.2	1323.2	
14N/10W-14E02 M	1442.6	7-11-58	□		5050			11-06-58	12.2	1325.2	
		10-02-58	□					12-08-58	11.5	1325.9	
		3-05-59	4.7	1437.9				1-06-59	9.9	1327.5	
14N/10W-14F01 M	1440.6	8-07-58	13.9	1426.7	5050			2-06-59	8.9	1328.5	
		9-03-58	9.7	1430.9				3-16-59	6.7	1330.7	
		10-03-58	10.2	1430.4				4-09-59	7.6	1329.8	
		11-06-58	9.5	1431.1				5-06-59	7.8	1329.6	
		12-08-58	9.7	1430.9		LONG VALLEY			5-31.00		
		1-16-59	9.4	1431.2		14N/07W-06F01 M	1331.0	3-06-59	7.1	1323.9	5050
		2-06-59	3.4	1437.2							
		3-05-59	2.4	1438.2		HIGH VALLEY			5-16.00		
		4-09-59	3.6	1437.0							
		5-06-59	3.2	1437.4		14N/07W-19M01 M	1730.6	10-03-58	□		5050
		6-01-59	8.0	1432.6				3-06-59	15.5	1715.1	
14N/10W-22A01 M	1464.4	7-11-58	□		5050	14N/08W-24J01 M	1740.2	10-03-58	DRY		5000

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
HIGH VALLEY											
14N/08W-24J01 M											
CONT.											
	1740.2	10-29-58	5-16.00	1704.8	5000	11N/06W-19G01 M	960.9	10-29-58	5-18.00	946.3	5000
		11-29-58	35.4	1704.8		CONT.		12-03-58	14.6	946.1	
		12-03-58	35.4	1709.2				1-08-59	14.8	949.4	
		1-08-59	31.0	1709.2				2-03-59	11.5	949.3	
		2-03-59	30.4	1709.8				3-05-59	11.6	949.9	
		3-05-59	3.5	1736.7				3-06-59	11.0	949.6	
		3-06-59	3.6	1736.6				4-07-59	12.1	948.8	
		6-04-59	32.7	1707.5				5-12-59	12.6	948.3	
		5-12-59	16.6	1723.6				6-04-59	13.0	947.9	
		4-07-59	5.1	1735.1							
CENTRAL VALLEY REGION											
COYOTE VALLEY											
10N/07W-15G01 M											
	1386.0	10-02-58	5-17.00	1379.7	5000	10N/07W-01G01 M	1091.3	10-03-58	9.7	1081.6	5050
		10-03-58	6.3	1379.7				3-06-59	4.9	1086.4	
		10-29-58	5.4	1380.6							
		12-03-58	7.2	1378.8				10-03-58	11.3	1119.5	5000
		1-08-59	6.6	1379.4				10-29-58	62.3	1068.5	
		2-03-59	4.8	1381.2				12-03-58	46.3	1084.5	
		3-05-59	2.6	1383.4				1-08-59	53.0	1077.8	
		3-06-59	2.6	1383.4				2-03-59	41.0	1089.8	
		4-07-59	2.4	1383.6				3-05-59	11.4	1119.4	
		5-12-59	2.9	1383.1				3-06-59	7.8	1123.0	
		6-04-59	3.7	1382.3				4-07-59	15.1	1115.7	
CENTRAL VALLEY REGION											
BURNS VALLEY											
13N/07W-28R01 M											
	1330.5	10-02-58	6.6	1323.9	5050	11N/07W-35E01 M	1071.0	10-03-58	11.2	1059.8	5050
		3-06-59	3.6	1326.9				3-06-59	6.9	1064.1	
CENTRAL VALLEY REGION											
LOWER LAKE AREA											
12N/07W-03J01 M											
	1375.4	10-03-58	5-30.00	1355.1	5050	SACRAMENTO VALLEY					
		3-06-59	13.2	1362.2		TEHAMA COUNTY					
CENTRAL VALLEY REGION											
12N/07W-14C02 M											
	1390.0	10-03-58	17.1	1372.9	5000	23N/02W-22N02 M	181.0	10-08-58	37.3	143.7	5100
		10-29-58	17.7	1372.3				3-03-59	25.7	155.3	
		11-29-58	17.7	1372.3							
		12-03-58	18.0	1372.0				10-06-58	52.4	225.4	5100
		1-08-59	17.4	1372.6				3-03-59	42.7	235.1	
		2-03-59	15.8	1374.2							
		3-05-59	9.9	1380.1				7-02-58	21.7	189.8	5050
		3-06-59	8.9	1381.1				8-06-58	□		
		4-07-59	10.3	1379.7				10-06-58	20.8	190.7	
		5-12-59	13.6	1376.4				11-07-58	□		
		6-04-59	12.4	1377.6				12-10-58	19.6	191.9	
CENTRAL VALLEY REGION											
12N/07W-23B01 M											
	1410.3	10-03-58	12.0	1398.3	5050			1-15-59	17.4	194.1	
		3-06-59	1.7	1408.6				2-05-59	19.2	192.3	
CENTRAL VALLEY REGION											
COYOTE VALLEY											
11N/06W-19G01 M											
	960.9	10-03-58	14.9	946.0	5000			3-03-59	14.3	197.2	
								4-07-59	16.8	194.7	
								5-05-59	17.0	194.5	
								6-02-59	20.9	190.6	

GROUND WATER LEVELS AT WELLS

CENTRAL VALLEY REGION				CENTRAL VALLEY REGION							
State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
TEHAMA COUNTY											
24N/02W-02N01 M	206.0	9-26-58 3-06-59	6.3 6.9	199.7 199.1	5100	26N/03W-04K01 M	295.0	3-09-59	5-21.01	230.9	5100
24N/02W-28G01 M	188.4	9-26-58 3-06-59	29.5 28.0	158.9 160.4	5100	26N/03W-21P01 M	284.5	7-02-58 8-08-58 10-02-58 11-07-58 12-10-58	64.1	222.5 225.7 229.4 232.6	5050
24N/03W-03N02 M	286.5	7-02-58 8-06-58 10-06-58 11-07-58 12-10-58	32.9 □ 49.9 42.9 37.9	253.6 236.6 243.6 248.6	5050			1-15-59 2-05-59 3-09-59 4-07-59 5-05-59 6-02-59	51.9 57.2 45.6	227.3 238.9	
		1-15-59 2-05-59 3-09-59 4-07-59 5-05-59 6-02-59	37.7 38.9 33.6 39.7 □ □	248.8 247.6 252.9 246.8					58.9	225.6	
24N/04W-02N01 M	380.2	9-29-58 3-07-59	15.7 13.0	364.5 367.2	5100	26N/03W-34P01 M	272.9	10-12-58 3-04-59	57.6 36.9	215.3 236.0	5100
25N/01W-31M01 M	281.5	9-29-58 2-28-59	60.7 51.2	220.8 230.3	5100	27N/02W-29E01 M	295.0	7-02-58 8-05-58 10-07-58 11-07-58 12-10-58	53.1 56.5 59.8 56.2	241.9 238.5 235.2 238.8	5050
25N/02W-18D01 M	214.0	9-26-58 3-04-59	13.2 7.9	200.8 206.1	5100			1-15-59 2-05-59 3-10-59 4-08-59 5-05-59 6-02-59	53.0 51.3 52.0 52.1 52.5 53.2	242.0 243.7 243.0 242.9 242.5 241.8	
25N/03W-09A01 M	288.0	7-02-58 8-06-58 10-10-58 11-07-58 12-10-58	59.8 □ 66.8* 55.6 53.3	228.2 221.2 232.4 234.7	5050	27N/02W-31P01 M	251.0	10-07-58 3-06-59	15.6 13.7	235.4 237.3	5100
		2-05-59 3-04-59 4-07-59 5-05-59 6-02-59	58.8 42.8 72.5 65.1 □	229.2 245.2 215.5 222.9		27N/03W-32A04 M	298.8	10-02-58 3-09-59	65.3 60.5	233.5 238.3	5100
25N/03W-22L01 M	275.5	10-09-58	58.0	217.5	5100	GLENN COUNTY					
26N/02W-14G01 M	312.0	10-07-58	80.1	231.9	5100	18N/01W-03J01 M	78.1	9-30-58 3-11-59 10-21-59	9.9 10.4 13.6	68.2 67.7 64.5	5050
26N/03W-22L01 M	275.5	3-04-59	35.0	240.5	5100	18N/03W-10L01 M	93.3	7-11-58 8-06-58 9-03-58 9-30-58 11-12-58	1.3 1.4 0.8 0.8 □	92.0 91.9 92.5 92.5	5050
26N/02W-14G01 M	312.0	3-06-59	75.9	236.1	5100			12-10-58 1-13-59 2-05-59 3-11-59	1.1 1.0 1.5 2.0	92.2 92.3 91.8 91.3	
26N/02W-34K01 M	300.0	10-07-58 3-06-59	7.7 9.5	292.3 290.5	5100						
26N/03W-04K01 M	295.0	10-02-58	72.7	222.3	5100						

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CENTRAL VALLEY REGION											
GLENN COUNTY						GLENN COUNTY					
5-21-02											
18N/03W-10L01 M CONT.	93.3	4-07-59	3.1	90.2	5050	20N/03W-29R01 M	143.0	3-17-59	18.9	124.1	5050
		5-05-59	3.8	89.5				9-30-58	22.9	111.1	5050
		6-01-59	3.8	89.5		21N/01W-17F01 M	134.0	3-17-59	18.0	116.0	
18N/04W-11B01 M	150.0	9-30-58	33.3	116.7	5050	21N/01W-31E01 M	130.0	9-30-58	9.9	120.1	5050
		3-13-59	26.3	123.7				3-17-59	9.7	120.3	
19N/01E-08R01 M	91.6	9-30-58	10.9	80.7	5050	21N/02W-02B01 M	161.2	9-30-58	18.4	142.8	5050
		3-12-59	5.0	86.6				3-16-59	9.3	151.9	
19N/01W-14K01 M	88.0	7-10-58	8.5	79.5	5050	21N/02W-31E01 M	161.4	7-10-58	□		5050
		8-06-58	11.3	76.7				8-06-58	23.0	138.4	
		9-03-58	7.8	80.2				9-02-58	23.3	138.1	
		9-30-58	8.0	80.0				9-30-58	24.2	137.2	
		11-12-58	12.0*	76.0				11-12-58	□		
		12-10-58	10.2	77.8				12-10-58	22.8	138.6	
		1-12-59	9.9	78.1				1-13-59	22.2	139.2	
		2-05-59	11.3	76.7				2-05-59	24.7	136.7	
		3-11-59	9.5	78.5				3-13-59	21.0	140.4	
		4-07-59	11.7	76.3				4-07-59	23.9	137.5	
		5-05-59	7.4	80.6				5-05-59	23.6	137.8	
		6-01-59	7.1	80.9				6-01-59	24.2	137.2	
19N/02W-13J01 M	86.6	9-30-58	7.3	79.3	5050	21N/03W-02B01 M	206.5	7-11-58	25.0	181.5	5050
		3-12-59	8.3	78.3				8-06-58	□		
19N/02W-19D01 M	104.2	9-30-58	4.6	99.6	5050			9-02-58	22.1	184.4	
		3-12-59	6.1	98.1				9-30-58	24.4	182.1	
19N/03W-18D01 M	153.0	9-30-58	45.0	108.0	5050			11-10-58	17.9	188.6	
		3-12-59	31.4	121.6				12-10-58	18.9	187.6	
19N/04W-35C01 M	165.3	9-30-58	43.7	121.6	5050			1-13-59	13.2	193.3	
		3-13-59	40.3	125.0				2-05-59	17.8	188.7	
20N/02W-07A01 M	141.0	8-06-58	4.5	136.5	5050			3-16-59	19.2	187.3	
		9-02-58	4.0	137.0				4-07-59	23.1	183.4	
		9-30-58	4.0	137.0		21N/03W-06Q01 M	233.4	5-05-59	22.6	183.9	5050
		11-12-58	□					6-01-59	□		
		12-10-58	2.9	138.1				9-30-58	63.5	169.9	5050
		1-13-59	8.1	132.9				3-17-59	63.5	169.9	
		2-05-59	7.8	133.2		21N/04W-12B01 M	248.4	9-30-58	81.0	167.4	5050
		3-13-59	6.9	134.1				3-17-59	75.1	173.3	
		4-07-59	□					9-30-58	6.8	189.2	5050
		5-05-59	0.4	140.6				3-17-59	8.1	187.9	
		6-01-59	0.3	140.7				9-30-58	10.1	190.2	5050
20N/02W-27J01 M	103.2	9-30-58	5.3	97.9	5050	22N/02W-31Q01 M	200.3	9-30-58	8.0	192.3	5050
		3-17-59	4.8	98.4				3-17-59	8.0	192.3	
20N/03W-29R01 M	143.0	9-30-58	17.8	125.2	5050	22N/03W-05F01 M	295.0	9-30-58	44.1	250.9	5050

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
GLENN COUNTY											
22N/03W-05F01 M	295.0	3-17-59	44.3	250.7	5050	19N/02E-10B09 M	112.0	3-09-59	2.2	109.8	5050
22N/03W-21F01 M	261.5	8-06-58	14.6	246.9	5050	19N/03E-16P01 M	170.8	10-02-58	□	108.5	5050
		9-02-58	15.6	245.9				3-05-59	62.3		
		9-30-58	16.0	245.5							
		11-10-58	18.1	243.4							
		12-10-58	16.3	245.2							
		1-13-59	15.9	245.6							
		2-08-59	18.0	243.5							
		3-11-59	19.0	242.5							
		3-20-59	18.6	242.9							
		4-07-59	17.8	243.7							
		5-05-59	16.7	244.8							
		6-01-59	17.2	244.3							
22N/04W-25B01 M	307.8	7-10-58	□		5050	19N/03E-30R01 M	135.2	7-10-58	□		5050
		8-06-58	59.7	248.1				8-04-58	□		
		9-02-58	107.0	200.8				9-02-58	□		
		9-30-58	□					10-02-58	□		
		11-10-58	□					11-10-58	□		
		12-11-58	89.9	217.9				10-02-58	5.1	95.9	5050
		1-13-59	92.3	215.5				3-06-59	4.6	96.4	
		2-05-59	93.9	213.9							
		3-11-59	□								
		4-07-59	□								
		5-05-59	103.8	204.0							
		6-01-59	□								
BUTTE COUNTY											
17N/02E-08D01 M	76.0	10-02-58	7.3	68.7	5050	20N/01W-15A01 M	108.0	10-02-58	13.4	94.6	5050
		3-02-59	6.7	69.3				3-06-59	6.9	101.1	
18N/01E-33N02 M	65.1	7-10-58	5.9	59.2	5050	21N/01E-33A01 M	135.8	10-02-58	13.9	121.9	5050
		8-04-58	9.2	55.9				3-06-59	15.7	120.1	
		10-01-58	5.8	59.3							
		11-10-58	□								
18N/01E-33N03 M	66.5	10-01-58	12.3	54.2	5050	21N/02E-08E01 M	205.0	10-03-58	11.5	193.5	5050
		3-03-59	7.5	59.0				3-09-59	4.4	200.6	
18N/02E-16F01 M	81.0	10-02-58	7.5	73.5	5050	21N/02E-26Q01 M	172.5	7-10-58	38.6	133.9	5050
		3-04-59	7.0	74.0				8-05-58	43.8	128.7	
18N/03E-16E02 M	105.5	10-02-58	19.3	86.2	5050			9-02-58	34.0	138.5	
		3-04-59	17.7	87.8				10-03-58	35.2	137.3	
18N/04E-28L01 M	135.5	10-01-58	□		5050			11-10-58	□		
		3-04-59	41.6	93.9				3-09-59	□		
19N/02E-10B09 M	112.0	10-02-58	4.4	107.6	5050	21N/01W-01E01 M	130.4	5-04-59	30.7	141.8	
								10-02-58	18.8	111.6	5050
								3-06-59	14.5	115.9	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
BUTTE COUNTY						COLUSA COUNTY					
21N/01W-26K01 M	115.8	7-10-58 8-05-58 9-02-58	16.1 17.4 □	99.7 98.4	5050	13N/02W-21B01 M CONT.	300.0	3-16-59 3-31-59	224.0 □	76.0	5050
		10-03-58 11-10-58 12-09-58	18.4 17.5 17.3	97.4 98.3 98.5		13N/02W-22H01 M	246.0	10-20-58 12-10-58 1-13-59 2-04-59 3-16-59	124.7 120.1 117.7 119.5 124.4	121.3 125.9 128.3 126.5 121.6	5050
		1-12-59 2-04-59 3-06-59 4-08-59 5-05-59 6-02-59	17.0 17.8 12.4 □ 16.4 17.3	98.8 98.0 103.4 99.4 98.5					121.9 121.5 128.7	124.1 121.5 117.3	
22N/01E-21E01 M	155.7	10-03-58 3-10-59	25.4 13.0	130.3 142.7	5050	13N/02W-34R01 M	302.0	10-20-58 3-16-59	89.1 90.2	212.9 211.8	5001
22N/02E-17E01 M	281.8	10-03-58 3-10-59	65.8 66.8	216.0 215.0	5050	14N/01W-32R01 M	33.8	10-20-58 3-16-59	10.9 8.5	22.9 25.3	5001
22N/01W-08R01 M	142.0	10-03-58 3-11-59	17.3 15.0	124.7 127.0	5050	14N/02W-16N02 M	119.5	7-02-58 8-08-58 10-20-58 11-10-58 12-10-58	35.8 38.3 35.3 34.8 33.8	83.7 81.2 84.2 84.7 85.7	5050
23N/01E-32P01 M	190.0	7-10-58 8-05-58 9-02-58 10-03-58 11-10-58 12-09-58	30.1* 29.5 28.5 26.0 25.7 25.1	159.9 160.5 161.5 164.0 164.3 164.9	5050			2-04-59 3-16-59 3-31-59 4-10-59 5-06-59 6-02-59	31.9 33.7 53.2 34.5 □ □	87.6 85.8 66.3 81.9 85.0	
		1-13-59 2-05-59 3-09-59 4-07-59 5-05-59 6-02-59	24.8 24.3 20.5 23.0 24.4 25.0	165.2 165.7 169.5 167.0 165.6 165.0		14N/03W-12F01 M	124.0	3-19-59	29.4	94.6	5001
23N/01W-10J02 M	197.5	10-03-58 3-10-59	31.1 24.6	166.4 172.9	5050	15N/01W-17N01 M	42.9	3-31-59	□		5001
23N/01W-33A01 M	153.5	10-03-58 3-11-59	17.9 5.0	135.6 148.5	5050	15N/03W-32B01 M	151.0	7-02-58 8-08-58 11-10-58 12-10-58	31.9 36.4 28.3 27.9	119.1 114.6 122.7 123.1	5050
COLUSA COUNTY											
13N/01W-34P01 M	76.8	3-16-59 3-31-59	46.7 45.9	30.1 30.9	5001	16N/01W-05K01 M	63.5	9-26-58	15.1	48.4	5101
13N/02W-21B01 M	300.0	7-02-58 8-08-58 10-20-58 11-10-58	□ □ □ □		5050	16N/01W-20F01 M	59.5	9-26-58 3-06-59	19.0 10.5	40.5 49.0	5101

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
COLUSA COUNTY											
16N/02W-26L01 M	47.0	10-03-58	5.2	41.8	5101	17N/03W-10C01 M	94.5	9-28-58	7.0	87.5	5101
16N/03W-01A01 M	63.8	9-28-58	4.5	59.3	5101	17N/04W-34G01 M	177.4	3-06-59	4.5	90.0	
		3-06-59	5.0	58.8				9-28-58	10.3	167.1	5101
16N/03W-35N02 M	74.0	7-02-58	6.3	67.7	5050	18N/01W-18O01 M	77.5	9-28-58	10.8	66.7	5101
		8-08-58	8.5*	65.5		18N/02W-15N01 M	72.8	9-28-58	6.2	66.6	5101
		10-02-58	8.5	65.5		SUTTER COUNTY					
		11-10-58	8.4	65.6		11N/03E-15C01 M	25.0	10-09-58	16.8	8.2	5102
		12-10-58	7.5	66.5				3-10-59	10.8	14.2	
		1-13-59	7.6	66.4		11N/04E-01M01 M	41.0	7-01-58	□		5050
		2-04-59	8.0	66.0				8-04-58		0.2	
		3-07-59	8.5	65.5				9-15-58	41.2	5.5	
		4-10-59	□					10-07-58	46.5	5.8	
		5-05-59	6.6	67.4				11-05-58	45.2	4.2	
		6-02-59	6.9	67.1				12-05-58	44.2	3.2	
16N/04W-11A01 M	140.0	9-28-58	14.5	125.5	5101			1-06-59	42.8	1.8	
		3-06-59	8.5	131.5				2-04-59	44.2	3.2	
16N/04W-35J01 M	125.5	9-28-58	7.0	118.5	5101			3-12-59	40.3	0.7	
		3-07-59	5.5	120.0				4-08-59	40.2	0.8	
17N/01W-06R01 M	75.8	7-02-58	21.5	54.3	5050			5-04-59	45.0	4.0	
		8-08-58	25.2	50.6				6-02-59	47.5	6.5	
		10-03-58	19.0	56.8				10-08-58	21.8	3.8	5102
		11-10-58	18.8	57.0				3-11-59	19.9	5.7	
		12-10-58	19.3	56.5				10-13-58	12.1	15.9	5102
		1-13-59	19.1	56.7				7-01-58	5.7	20.3	5050
		2-04-59	20.6	55.2				8-04-58	9.8	16.2	
		3-06-59	8.7	67.1				9-15-58	9.2	16.8	
		4-10-59	□					10-13-58	14.1	11.9	
		5-05-59	25.3	50.5				11-07-58	11.2	14.8	
		6-02-59	25.9	49.9				12-03-58	9.3	16.7	
17N/02W-06E01 M	70.0	9-28-58	7.0	63.0	5101			1-15-59	8.1	17.9	
		3-06-59	4.7	65.3				2-04-59	11.2	14.8	
17N/02W-11K01 M	63.0	7-11-58	3.2	59.8	5050			3-17-59	10.8	15.2	
		8-06-58	4.9	58.1				4-07-59	7.2	18.8	
		9-03-58	3.5	59.5				5-04-59	8.1	17.9	
		9-28-58	4.5	58.5				6-02-59	9.2	16.8	
		11-12-58	3.5	59.5				10-13-58	5.9	13.1	5102
		12-10-58	4.1	58.9				3-17-59	7.6	11.4	
		1-13-59	3.9	59.1				10-09-58	16.8	8.2	5102
		2-04-59	4.1	58.9				3-10-59	8.9	16.1	
		3-06-59	2.0	61.0							
		4-10-59	5.4	57.6							
		5-05-59	3.7	59.3							
		6-02-59	5.1	57.9							

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
CENTRAL VALLEY REGION						SUTTER COUNTY					
SUTTER COUNTY						SUTTER COUNTY					
12N/04E-03R01 M	52.2	7-01-58 8-04-58 9-15-58 10-08-58 11-05-58 12-05-58 1-13-59 2-04-59 4-08-59 5-04-59 6-02-59	38.3 41.7 45.4 □ 41.5 40.1 39.3 39.3 39.3 41.0 43.9	13.9 10.5 6.8 10.7 12.1 12.9 10.0 12.9 11.2 8.3	5050	14N/01E-14G01 M	37.0	6-02-59	5.8	31.2	5050
12N/04E-33L01 M	31.0	10-03-58 3-11-59	18.4 11.6	12.6 19.4	5102	14N/02E-13R01 M	37.0	10-13-58 3-17-59	7.1 7.6	29.9 29.4	5102
13N/01E-01J01 M	40.0	10-10-58 3-16-59	15.4 13.3	24.6 26.7	5102	14N/03E-05C01 M	50.0	7-01-58 8-04-58 9-15-58 10-13-58 11-06-58 12-03-58 1-14-59 2-04-59 3-17-59 4-07-59 5-04-59 6-02-59	21.7 27.7 □ 26.3 25.0 24.1 23.5 23.5 20.2 29.0 29.4 □	28.3 22.3 23.7 25.0 25.9 26.5 26.5 29.8 21.0 20.6	5050
13N/02E-04J01 M	28.0	10-13-58 3-16-59	7.9 □	20.1	5102	14N/03E-31B01 M	38.0	10-13-58 3-17-59	15.8 9.8	22.2 28.2	5102
13N/02E-34M01 M	21.0	10-13-58 3-16-59	8.7 8.5	12.3 12.5	5102	15N/01E-13A01 M	55.0	7-01-58 8-04-58 9-15-58 10-10-58 11-07-58 12-03-58 1-14-59 2-04-59 3-16-59 4-07-59 5-04-59 6-02-59	□ □ 18.7 12.8 32.2 27.3 24.2 27.4 12.9 42.5 □ □	36.3 42.2 22.8 27.7 30.8 27.6 42.1 12.5	5050
13N/03E-14E01 M	36.0	10-06-58 3-10-59	11.9 9.1	24.1 26.9	5102	15N/01E-14F01 M	37.0	10-10-58 3-16-59	11.9 5.9	25.1 31.1	5102
13N/03E-16A01 M	35.0	10-06-58 3-17-59	14.2 10.3	20.8 24.7	5102	15N/02E-24B01 M	51.0	10-10-58 3-16-59	14.4 11.9	36.6 39.1	5102
13N/04E-22G01 M	55.1	10-08-58 3-13-59	38.6 37.8	16.5 17.3	5102	15N/02E-35D01 M	42.0	10-13-58 3-17-59	16.8 12.9	25.2 29.1	5102
13N/05E-07K01 M	75.0	10-08-58 3-13-59	54.7 48.4	20.3 26.6	5102	15N/03E-05D02 M	59.8	7-01-58 8-04-58 9-15-58 10-14-58 11-06-58 12-03-58 1-14-59	12.9 □ □ 19.9 16.9 16.8 16.6 16.6	46.9 43.7	5050
14N/01E-08A06 M	39.5	10-10-58 3-16-59	11.9 7.9	27.6 31.6	5102						
14N/01E-14G01 M	37.0	7-01-58 8-04-58 9-15-58 10-10-58 11-07-58 12-03-58 1-04-59 2-04-59 3-16-59 4-07-59 5-04-59	3.7 6.1 4.9 6.7 7.6 8.1 7.5 6.8 6.4 6.7 5.4	33.3 30.9 32.1 30.3 29.4 28.9 29.5 30.2 30.6 30.3 31.6	5050						

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CENTRAL VALLEY REGION											
SUTTER COUNTY											
15N/03E-05D02 M CONT.	59.8	2-04-59 3-18-59 4-07-59	17.0 20.3	42.8 39.5	5050	14N/04E-18C01 M	52.8	7-01-58 8-04-58 9-15-58	5-21.06		5050
15N/03E-34L01 M	50.0	5-04-59 6-02-59	16.6 22.9	43.2 36.9	5102			10-01-58 11-06-58 12-04-58	33.0 34.1	19.8 18.7 23.4	
15N/01W-25A01 M	50.0	10-14-58 3-10-59	32.3 25.8	17.7 24.2	5102			1-14-59 2-04-59 3-02-59	29.4 33.5 29.4	23.4 19.3 23.4	
16N/01E-31H01 M	72.0	10-10-58 3-16-59	19.8 19.3	30.2 30.7	5102	14N/05E-06B01 M	78.5	4-08-59 5-04-59 6-02-59	35.6	17.2	
16N/02E-26G01 M	67.0	10-09-58 3-18-59	13.8 14.9	53.2 52.1	5102			10-01-58 3-02-59	68.5 61.7	10.0 16.8	5103
16N/03E-33J02 M	66.0	10-14-58 3-18-59	22.9 22.9	43.1 43.1	5102	14N/05E-33R01 M	74.0	7-01-58 8-04-58 9-15-58	22.8 24.7	51.2 49.3	5050
17N/01E-25J01 M	77.0	10-14-58 3-18-59	33.7 21.6	43.3 55.4	5102			10-01-58 11-05-58 3-02-59	21.8 33.2 27.2	52.2 40.8 46.8	
17N/02E-34A01 M	74.7	10-14-58 3-18-59	3.9 6.2	70.8 68.5	5102	15N/04E-04R01 M	85.7	3-05-59	27.2	46.8	
17N/03E-30N01 M	73.0	10-14-58 3-18-59	8.8 8.6	64.2 64.4	5102	15N/04E-20F01 M	72.5	10-01-58 3-02-59	31.3 33.9	41.2 38.6	5103
YUBA COUNTY											
13N/04E-07E01 M	39.0	10-01-58 3-02-59	15.6 11.1	23.4 27.9	5103	15N/05E-19N01 M	81.0	10-01-58 3-02-59	62.0 57.0	19.0 24.0	5103
14N/03E-24B01 M	50.8	10-01-58 3-02-59	32.3 25.9	18.5 24.9	5103	16N/03E-26F01 M	69.0	10-01-58 3-02-59	20.3 28.8	48.7 40.2	5103
14N/04E-13C01 M	73.5	7-01-58 8-04-58 9-15-58	57.1 60.2	16.4 13.3	5050	16N/04E-08A01 M	91.0	7-01-58 8-04-58 9-15-58	31.6 33.1	59.4 57.9	5050
		10-01-58 11-05-58 12-03-58	66.5 65.8 63.6	7.0 7.7 9.9				10-01-58 11-06-58 12-03-58	58.2 55.7* 41.6	32.8 35.3 49.4	
		1-06-59 2-04-59 3-02-59	62.7 63.1 61.8	10.8 10.4 11.7				1-14-59 2-04-59 3-02-59	30.6 34.6 33.7	60.4 56.4 57.3	
		4-08-59 5-04-59 6-02-59	61.8 65.9 73.4	7.6 0.1		16N/04E-34Q01 M	90.5	4-07-59 5-04-59 6-02-59	39.3	51.7	
											5103

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
YUBA COUNTY											
			5-21.06			PLACER COUNTY			5-21.07		
16N/04E-34Q01 M	90.5	3-02-59	25.4	65.1	5103	13N/05E-35M01 M	92.0	3-02-59	□		5050
17N/03E-35H02 M	82.3	7-01-58	24.9	57.4	5050	13N/06E-09N02 M	165.3	9-29-58	28.6	136.7	5050
		8-04-58	□					3-02-59	25.0	140.3	
		9-15-58	□			SACRAMENTO COUNTY					
		10-01-58	28.3	54.0					5-21.08		
		11-06-58	23.9	58.4		5N/05E-03F01 M	20.0	10-08-58	46.5	26.5	5050
		12-04-58	23.6	58.7				3-10-59	40.0	20.0	
		1-14-59	20.9	61.4		5N/06E-36R01 M	63.2	10-15-58	□		5050
		2-04-59	23.3	59.0				3-19-59	57.3	5.9	
		3-02-59	20.9	61.4		5N/07E-27D01 M	89.0	10-08-58	DRY		5050
		4-07-59	24.4	57.9				3-13-59	□		
		5-04-59	25.1	57.2		6N/05E-17E01 M	17.0	10-08-58	51.8	34.8	5050
		6-02-59	31.8	50.5				3-10-59	47.4	30.4	
17N/04E-27F01 M	106.0	10-01-58	□	69.1	5103	6N/06E-20D01 M	45.7	10-08-58	56.8	11.1	5050
		3-02-59	36.9					3-10-59	56.7	11.0	
PLACER COUNTY											
			5-21.07			6N/07E-28E01 M	71.0	7-15-58	56.3	14.7	5050
11N/05E-34R03 M	97.5	8-04-58	□	20.0	5050			8-07-58	60.6	10.4	
		9-15-58	□					9-12-58	62.1	8.9	
		9-29-58	77.5	21.2				10-08-58	61.1	9.9	
		11-10-58	76.3	21.7				11-06-58	60.5	10.5	
		12-09-58	75.8	24.2				12-11-58	60.9	10.1	
		1-06-59	73.3	22.6				1-02-59	64.4	6.6	
		2-04-59	74.9	26.6				2-03-59	72.9	1.9	
		3-02-59	70.9					3-13-59	71.9	0.9	
		4-08-59	□					4-07-59	50.2	20.8	
		5-04-59	71.5	26.0				5-04-59	53.1	17.9	
		6-02-59	54.5	43.0				6-03-59	56.6	14.4	
11N/06E-11R01 M	162.6	9-25-58	16.8	145.8	5050						
		3-02-59	16.6	146.0		6N/08E-15J01 M	215.0	7-15-58	122.6	92.4	5050
12N/05E-23H01 M	103.5	9-29-58	35.9	67.6	5050			10-09-58	123.2	91.8	
		3-02-59	38.4	65.1				3-13-59	122.6	92.4	
13N/05E-34R03 M	90.5	9-29-58	57.2	33.3	5050			10-08-58	62.8	46.8	5050
		1-16-59	49.7	40.8				3-10-59	46.0	30.0	
		2-04-59	50.7	39.8				7-15-58	48.7	28.7	5050
		3-02-59	47.8	42.7				8-07-58	49.6	29.6	
		4-08-59	47.8	42.7				9-12-58	50.4	30.4	
		5-04-59	52.1	38.4				10-10-58	51.3	31.3	
		6-02-59	54.5	36.0				11-06-58	50.0	30.0	
13N/05E-35M01 M	92.0	8-04-58	□		5050			12-11-58	48.9	28.9	
		9-15-58	□					1-02-59	47.3	27.3	
		9-29-58	□					2-03-59	48.3	28.3	
		11-10-58	51.9	40.1							

GROUND WATER LEVELS AT WELLS

CENTRAL VALLEY REGION											
YOLO COUNTY											
State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
YOLO COUNTY											
6N/03E-15C01 M	4.3	3-16-59	3.6	0.7	5104	9N/02E-14N01 M	40.4	7-02-58	17.9	22.5	5050
6N/03E-23P01 M	7.0	10-09-58 3-16-59	7.2 6.2	0.2 0.8	5104			8-08-58 10-09-58 11-10-58 12-10-58	18.8 20.9 18.3	21.6 19.5 22.1	
7N/03E-04G01 M	19.4	10-09-58 3-16-59	26.1 19.7	6.7 0.3	5104			12-10-58 1-13-59 2-06-59 3-13-59 4-09-59 5-04-59 6-02-59	18.0 17.1 16.7 15.5 16.4 15.1 17.2	22.4 23.3 23.7 24.9 24.0 25.3 23.2	
8N/01E-07B02 M	107.8	10-05-58 11-03-58 3-10-59 3-16-59	21.6 22.4 22.1 20.2	86.2 85.4 85.7 87.6	5104			10-09-58 3-09-59	11.4 11.0	13.8 14.2	5104
8N/01E-15B01 M	84.3	10-07-58 10-08-58 10-29-58 11-29-58 12-03-58	27.2 28.1 27.4 27.9	57.1 56.2 58.1 57.6	5000	9N/03E-07D01 M	25.2	10-09-58 3-09-59	8.6 5.2	14.0 17.4	5104
	85.5	1-06-59 2-02-59 3-04-59 3-10-59 4-06-59 5-11-59 6-02-59	28.4 28.6 28.0 28.1 27.6 25.7 26.2	57.1 56.9 57.5 57.4 57.9 59.8 59.3		9N/03E-30G01 M	22.6	10-09-58 3-10-59	8.6 5.2	14.0 17.4	5104
8N/03E-19D01 M	38.8	7-02-58 8-11-58 9-08-58 10-09-58 3-16-59 3-27-59	55.9 53.2 48.7 40.7 27.2 27.6	17.1 14.4 9 1.9 11.6 11.2	5104	9N/01W-35M01 M	143.4	7-02-58 8-08-58 9-12-58 10-12-58 11-10-58 12-10-58	□ □ 39.7 40.8 34.7 32.8	103.7 102.6 108.7 110.6	5050
								2-06-59 3-13-59 4-09-59 5-06-59 6-01-59	34.2 35.2 31.5 38.9 43.2 39.2	109.2 108.2 111.9 104.5 100.2 104.2	
8N/03E-31N01 M	33.0	7-02-58 8-07-58 9-08-58 10-01-58 10-09-58 3-16-59	47.6 50.1 49.3 46.6 45.4 34.1	14.6 17.1 16.3 13.6 12.4 1.1	5104	10N/01E-14K01 M	93.0	7-02-58 8-08-58 9-11-58 10-04-58 11-06-58 12-10-58 1-12-59 2-06-59 3-16-59 4-10-59	□ □ 53.0 58.5 55.7 53.4 52.9 39.8 40.1 32.3	40.0 34.5 37.3 39.6 40.1 53.2 52.9 60.7	5050
8N/01W-16R02 M	128.0	9-29-58 10-07-58 3-10-59 3-23-59	50.6 51.7 43.6 43.1	77.4 76.3 84.4 84.9	5104			5-06-59 6-02-59	46.7 50.8	46.3 42.2	
9N/01E-08D01 M	110.0	10-11-58 3-13-59	3.7 2.8	106.3 107.2	5104	10N/01E-33A01 M	120.0	10-05-58 3-09-59	81.8 66.0	38.2 54.0	5104
9N/01E-22B01 M	86.5	10-25-58 3-11-59	10.3 □	76.2	5104	10N/02E-02N01 M	36.0	10-04-58 3-13-59	16.8 10.2	19.2 25.8	5104

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
YOLO COUNTY						CAPAY VALLEY					
10N/02E-18M01 M	74.0	10-05-58 3-16-59	39.4 32.1	34.6 41.9	5104	11N/03W-26M03 M	309.0	3-07-59	25.5	283.5	5104
10N/02E-21M02 M	52.0	10-04-58 3-13-59	20.9 17.7	31.1 34.3	5104	12N/03W-19H01 M	441.0	10-08-58 3-07-59	32.3 33.9	408.7 407.1	5104
10N/02E-26O01 M	32.4	10-09-58 3-13-59 10-06-59	19.6 7.4 21.8	12.8 25.0 10.6	5104	SOLANO COUNTY					
10N/01W-09E01 M	167.0	10-10-58 3-09-59	15.8 12.3	151.2 154.7	5104	5N/02E-36N01 M	1.2	10-09-58 3-04-59	7.3 6.3	- 6.1 - 5.1	5050
10N/01W-29M01 M	165.4	10-10-58 3-11-59	12.1 8.0	153.3 157.4	5104	6N/01E-24L01 M	32.0	10-08-58 3-04-59 3-16-59	□ 27.5 35.9	4.5 - 3.9	5050
11N/01E-18B01 M	52.0	3-25-59	25.4	26.6	5001	6N/02E-29N01 M	19.3	10-08-58 10-09-58 3-04-59 3-16-59	34.1 32.3 28.0 28.0	- 14.8 - 13.0 - 8.7 - 8.7	5050
11N/01E-25R01 M	56.0	10-17-58 3-24-59	34.8 24.2	21.2 31.8	5001	6N/01W-11G01 M	83.5	10-08-58 10-09-58 11-29-58 12-03-58 1-06-59 2-02-59 3-04-59 3-16-59 4-06-59 5-11-59 6-02-59	27.0 27.2 26.9 26.7 27.5 28.1 27.3 27.4 28.4 □ 31.8	56.5 56.3 56.6 56.8 56.0 55.4 56.2 56.1 55.1	5000
11N/02E-18F02 M	40.5	3-24-59	15.2	25.3	5001	6N/01W-13R01 M	75.0	10-08-58 3-05-59	31.6 29.6	43.4 45.4	5050
11N/02W-26J01 M	280.8	10-08-58 3-07-59	63.9 55.6	216.9 225.2	5104	7N/02E-12C01 M	28.5	10-07-58 10-10-58 3-03-59 3-19-59	59.4* 61.4 39.9 40.0*	- 30.9 - 32.9 - 11.4 - 11.5	5050
12N/01W-05M01 M	165.0	7-02-58 8-08-58 9-12-58 11-06-58 12-10-58 1-12-59 2-06-59 3-26-59 4-10-59 5-06-59 6-02-59	□ □ 127.3 120.0 117.3 115.7 118.1 112.5 116.1 □ □	37.7 45.0 47.7 49.3 46.9 52.5 48.9	5050	7N/01W-13H01 M	106.0	10-09-58 3-06-59	92.0 □	14.0	5050
12N/01W-36K01 M	40.0	3-25-59	20.8	19.2	5001	8N/01E-23O01 M	74.0	9-05-58 10-10-58 3-06-59 3-19-59	47.8 46.7 44.6 43.2	26.2 27.3 29.4 30.8	5050
YOLO COUNTY						CAPAY VALLEY					
10N/02W-16L01 M	230.5	10-08-58 3-07-59	14.1 12.8	216.4 217.7	5104	8N/01E-32E01 M	100.0	9-09-58 10-09-58 2-27-59	81.1 69.4 50.3	18.9 30.6 49.7	5050
11N/03W-04P01 M	395.0	10-04-58 10-08-58 3-07-59	20.9 98.4 43.3	374.1 296.6 351.7	5104						
11N/03W-26M03 M	309.0	10-08-58	28.0	281.0	5104						

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
SOLANO COUNTY											
MOKELUMNE RIVER AREA											
8N/01E-32E01 M	100.0	3-06-59	50.8	49.2	5050	3N/05E-16A01 M	2.0	3-18-59	5.1	3.1	5050
8N/01E-33Q01 M	86.5	10-09-58	52.3	34.2	5000	3N/06E-29C01 M	17.7	10-10-58	□		5050
		11-29-58	53.4	33.1				3-20-59	□		
		12-03-58	52.0	34.5							
		1-06-59	49.9	36.6		3N/07E-10L04 M	73.1	8-01-58	63.5	9.6	1201
		2-02-59	□					10-01-58	57.5	15.6	
		3-04-59	□					3-02-59	52.4	20.7	
		3-06-59	51.5	35.0		3N/07E-20P02 M	50.4	10-10-58	45.3	5.1	5050
		4-02-59	51.2	35.3				3-20-59	42.2	8.2	
		4-06-59	□								
		5-11-59	□			3N/08E-08E01 M	96.5	10-14-58	83.0	13.5	5050
		6-02-59	□					3-19-59	□		
8N/01E-33Q02 M	86.5	11-29-58	53.4	33.1	5000						
		12-02-58	52.0	34.5		4N/05E-22A01 M	9.1	10-15-58	4.8	4.3	5050
		12-03-58	52.0	34.5				3-18-59	3.2	5.9	
		1-06-59	49.9	36.6		4N/06E-12N01 M	45.0	7-23-58	44.4	0.6	5050
		2-02-59	□					8-07-58	44.6	0.4	
		3-04-59	□					9-12-58	46.1	1.1	
		4-02-59	51.2	35.3				11-07-58	46.3	1.3	
		4-06-59	□					3-11-59	42.4	2.6	
		5-11-59	□								
		6-02-59	□			4N/07E-33H01 M	74.0	10-14-58	34.4	39.6	5050
8N/02E-22Q01 M	47.0	10-10-58	42.9	4.1	5050			3-19-59	37.0	37.0	
		3-05-59	35.0	12.0							
8N/02E-32J01 M	52.8	10-10-58	59.4	6.6	5050	4N/08E-18D01 M	116.6	10-15-58	□		5050
		3-03-59	□					3-19-59	□		
8N/01W-23B01 M	123.6	10-02-58	42.4	81.2	5050	5N/05E-33A01 M	9.3	10-15-58	□	1.3	5050
		10-10-58	42.3	81.3				3-18-59	8.0		
		3-06-59	40.6	83.0		5N/07E-34G01 M	89.3	10-15-58	78.1	11.2	5050
		3-17-59	39.1	84.5				3-19-59	65.9	23.4	
8N/01W-34A01 M	121.5	9-05-58	64.2	57.3	5050	5N/08E-22Q01 M	207.0	10-15-58	□		5050
		10-10-58	54.5	67.0				3-19-59	164.9	42.1	
		3-06-59	46.2	75.3		CALAVERAS RIVER AREA					
		3-24-59	45.7	75.8		1N/06E-14C01 M	12.6	10-00-58	63.0	50.4	4701
SAN JOAQUIN VALLEY											
MOKELUMNE RIVER AREA											
2N/06E-16L01 M	11.8	10-09-58	16.6	4.8	5050			2-28-59	50.0	37.4	
		3-23-59	13.3	1.5		1N/07E-07E01 M	27.0	10-00-58	68.0	41.0	4701
		5-25-59	14.1	2.3				2-28-59	□		
3N/05E-16A01 M	2.0	10-10-58	4.3	2.3	5050	2N/06E-34K01 M	8.8	10-00-58	38.0	29.2	4701
								2-28-59	27.0	18.2	
						2N/07E-01R02 M	73.9	3-11-59	□		5050

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
CALAVERAS RIVER AREA											
2N/07E-12A01 M	71.0	7-23-58	74.3	-	5050	1N/09E-15B01 M	120.9	8-07-58	67.6	53.3	5511
		8-07-58	73.6	-		CONT.		9-12-58	74.6	46.3	
		9-12-58	70.8	0.2				10-09-58	74.4	46.5	
		11-07-58	69.0	2.0				11-07-58	68.4	52.5	
		3-11-59	60.2	10.8				12-11-58	69.8	51.1	
2N/07E-16L01 M	47.1	10-10-58	58.6	-	5050			1-02-59	70.1	50.8	
		3-18-59	46.2	1.5				2-03-59	73.3	47.6	
2N/08E-12L01 M	109.5	10-09-58	80.5	29.0	5050	1N/10E-31Q02 M	130.0	3-10-59	70.3	50.6	
		3-18-59	76.7	32.8				4-09-59	66.5	54.4	
		6-10-59	85.9	23.6				5-04-59	65.7	55.2	
2N/08E-21R01 M	80.8	10-10-58	70.1	10.7	5050			10-17-58	73.7	56.3	5050
		3-18-59	66.4	14.4		1S/07E-10A01 M	40.5	3-20-59	73.4	56.6	
2N/09E-07G02 M	120.0	10-10-58	87.4	32.6	5050			10-16-58	28.4	12.1	5050
		3-19-59	80.5	39.5		1S/08E-19N01 M	51.4	3-24-59	25.2	15.3	
		6-11-59	81.9	38.1				10-16-58	9.0	42.4	5050
3N/08E-32P01 M	85.6	10-09-58	74.5	11.1	5050	1S/09E-09R01 M	128.6	3-24-59	11.0	40.4	
		3-11-59	71.8	13.8				5-26-59	10.4	41.0	
3N/09E-25R01 M	170.0	10-10-58	36.4	133.6	5050			10-17-58	□		5050
		3-11-59	38.1	131.9				3-21-59	□		
		6-11-59	39.8	130.2		TRACY AREA		5-26-59	□		
FARMINGTON COLLEGEVILLE AREA											
1N/06E-35A02 M	18.0	10-16-58	18.5	-	5050	1S/05E-31R01 M	4.8	7-23-58	5.8	1.0	5050
		3-24-59	17.5	0.5				8-07-58	12.0	7.2	
1N/07E-13E01 M	51.7	10-17-58	55.0	-	5050			9-12-58	13.0	-	
		3-21-59	51.9	0.2				10-09-58	13.8	-	
1N/08E-17D01 M	68.7	7-23-58	□		5050			11-06-58	11.3	-	
		8-07-58	□					12-11-58	10.9	-	
		9-12-58	□					1-02-59	14.4	-	
		10-09-58	72.2	3.5				2-03-59	14.1	-	
		11-07-58	□					3-10-59	10.1	-	
		12-11-58	68.1	0.6		1S/05E-35Q01 M	9.0	4-09-59	7.4	-	
		1-02-59	73.8	5.1				5-25-59	10.3	-	
		2-03-59	74.2	5.5				10-09-58	32.4	-	5050
		3-10-59	74.1	5.4				3-23-59	16.7	-	
		4-09-59	64.0	4.7				5-22-59	22.3	-	
		5-29-59	67.2	1.5		1S/06E-31E01 M	8.3	10-09-58	6.9	1.4	5050
1N/08E-26A02 M	88.7	10-17-58	74.5	14.2	5050			3-23-59	6.9	1.4	
		3-21-59	65.4	23.3		2S/05E-16C01 M	16.6	10-09-58	18.4	1.8	5050
1N/09E-15B01 M	120.9	7-23-58	68.2	52.7	5511			3-23-59	18.9	2.3	
						2S/06E-27E01 M	21.0	5-22-59	13.8	2.8	
								10-09-58	11.1	9.9	5050

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
TRACY AREA											
OAKDALE IRRIGATION DISTRICT											
2S/06E-27E01 M CONT.	21.0	3-23-59 5-22-59	11.5 9.7	9.5 11.3	5050	2S/10E-33J01 M	167.0	10-00-58 12-01-58 12-15-58	5-22.06 □ 56.6	110.4 110.7 111.1	3520
2S/06E-31N01 M	64.0	10-09-58 3-23-59	13.6 □	50.4	5050			1-01-59 1-15-59 2-01-59 2-15-59 3-00-59	55.6 55.6 55.6 55.5 55.6	111.4 111.4 111.4 111.5 111.4	
3S/06E-03F01 M	29.0	10-09-58 3-23-59 5-22-59	14.8 20.0 22.4	14.2 9.0 6.6	5050						
3S/06E-09J01 M	55.9	9-22-58 3-18-59	25.3 24.1	30.6 31.8	5050	2S/11E-31N01 M	192.5	10-00-58 10-08-58 3-00-59	76.9 □ 77.4	115.6 115.1	3520
SO SAN JOAQUIN IRRIGATION DIST											
1S/07E-15J01 M	41.0	6-25-58 1-07-59 6-24-59	7.9 DRY DRY	33.1	7518	2S/12E-31K01 M	190.0	10-00-58 3-00-59	41.6 41.7	148.4 148.3	3520
2S/09E-08H01 M	112.0	1-07-59 6-24-59	22.8 21.5	89.2 90.5	7518	3S/10E-15A01 M	152.0	10-00-58 12-01-58 12-15-58 1-01-59 1-15-59 2-01-59 2-15-59 3-00-59	43.3 43.3 43.7 43.4 43.1 42.9 42.9 42.8	108.7 108.7 108.3 108.6 108.9 109.1 109.1 109.2	3520
OAKDALE IRRIGATION DISTRICT											
1S/09E-36A01 M	149.3	10-00-58 12-01-58 12-15-58	43.7 43.7 43.9	105.6 105.6 105.4	3520	3S/11E-18O01 M	162.5	10-00-58 12-01-58 12-15-58	□ 55.7 □	106.8	3520
		1-01-59 1-15-59 2-01-59 2-15-59 3-00-59	44.1 44.1 44.2 44.4 44.5	105.2 105.2 105.1 104.9 104.8				1-01-59 1-15-59 2-01-59 2-15-59 3-00-59	52.9 52.3 52.3 51.9 51.8	109.6 110.2 110.2 110.6 110.7	
1S/10E-28J01 M	194.0	10-00-58 12-01-58 12-15-58	82.4 82.4 □	111.6 111.6	3520	MODESTO IRRIGATION DISTRICT					
		1-01-59 1-15-59 2-01-59 2-15-59 3-00-59	82.4 81.5 81.3 81.0 80.6	111.6 112.5 112.7 113.0 113.4		3S/07E-15A01 M	38.0	8-01-58 9-04-58 9-26-58 3-17-59 4-03-59 5-04-59 6-04-59 6-26-59	4.1 4.3 5.0 5.5 5.7 6.0 5.8 5.8	33.9 33.7 33.0 32.5 32.3 32.0 32.2 32.2	3521
2S/09E-26F01 M	132.0	10-00-58 12-01-58 12-15-58	43.9 43.9 43.9	88.1 88.1 88.1	3520	3S/08E-13A01 M	81.5	8-01-58 9-04-58 9-26-58 3-17-59 3-17-59 3-00-59	3.6 4.2 4.9 9.3 6.5	77.9 77.3 76.6 72.2 75.0	3521

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
TURLOCK IRRIGATION DISTRICT											
			5-22-08								
4S/09E-21A01 M CONT.	82.0	11-06-58 12-14-58 3-04-59	DRY DRY DRY		3524	3S/08E-13A01 M CONT.	81.5	5-04-59 6-04-59 6-26-59	5-22-07	75.9 76.3 76.9	3521
4S/10E-21R01 M	109.0	7-02-58 8-01-58 9-05-58 4.1 10-03-58 4.5 11-06-58 5.7 12-14-58 6.7 1-07-59 5.3 3-04-59 6.4	4.1 3.0 4.1 4.5 5.7 6.7 5.3 6.4	104.9 106.0 104.9 104.5 103.3 102.3 103.7 102.6	3524	3S/08E-23A01 M	75.0	8-01-58 9-04-58 9-26-58 8.1 3-17-59 9.8 4-03-59 9.5 5-04-59 8.0 6-04-59 8.5 6-26-59 8.1	6.4 8.0 8.1 9.8 9.5 8.0 8.5 8.1	68.6 67.0 66.9 65.2 65.5 67.0 66.5 66.9	3521
4S/11E-29N01 M	131.0	7-02-58 8-01-58 9-05-58 DRY 10-03-58 DRY 11-06-58 DRY 12-14-58 DRY 3-04-59	9.3 9.5 DRY DRY DRY DRY DRY DRY	121.7 121.5	3524	3S/09E-15A01 M	98.0	8-01-58 9-04-58 9-26-58 11.0 3-17-59 11.0 4-03-59 8.3 5-04-59 □ 6-04-59 □ 6-26-59 □	11.2 10.7 11.0 11.0 8.3 □ □ □	86.8 87.3 87.0 87.0 89.7	3521
5S/08E-01N01 M	53.0	7-02-58 8-01-58 9-05-58 1.4 10-03-58 4.7 11-06-58 5.7 12-14-58 5.8 3-04-59 7.6	4.0 3.9 1.4 4.7 5.7 5.8 7.6	49.0 49.1 51.6 48.3 47.3 47.2 45.4	3524	4S/07E-02A01 M	30.0	8-01-58 9-04-58 9-26-58 8.5 3-17-59 DRY 4-03-59 10.2 5-04-59 11.0 6-04-59 9.0 6-26-59 9.0	7.2 7.6 8.5 DRY 10.2 11.0 9.0 9.0	22.8 22.4 21.5 19.8 19.0 21.0 21.0	3521
5S/09E-14R01 M	75.0	7-02-58 8-01-58 9-05-58 5.3 10-03-58 5.8 11-06-58 6.7 12-14-58 6.7 3-04-59 7.6 4-03-59 6.9	5.2 5.3 5.3 5.8 6.7 6.8 7.6 6.9	69.8 69.7 69.7 69.2 68.3 68.3 67.4 68.1	3524	4S/08E-03A01 M	64.0	8-01-58 9-04-58 9-26-58 11.0 3-17-59 12.0 4-03-59 11.4 5-04-59 DRY 6-04-59 DRY	10.0 11.0 11.3 12.0 11.4 DRY DRY	54.0 53.0 52.7 52.0 52.6	3521
5S/09E-24N01 M	75.0	7-02-58 8-01-58 9-05-58 4.8 10-03-58 5.0 11-06-58 5.5 12-14-58 7.5 3-04-59 7.7 4-03-59 7.2	5.1 5.0 4.8 5.0 5.5 7.5 7.7 7.2	69.9 70.0 70.2 69.5 67.5 67.3 67.8	3524	TURLOCK IRRIGATION DISTRICT					
5S/10E-21R01 M	92.0	7-02-58 8-01-58 9-05-58	4.1 4.0 4.6	87.9 88.0 87.4	3524	4S/08E-27D01 M	55.0	10-03-58 11-06-58 6.7 3-04-59 8.3 4-03-59 8.2	4.5 6.7 8.3 8.2	50.5 48.3 46.7 46.8	3524
5S/10E-21R01 M	92.0	7-02-58 8-01-58 9-05-58	4.1 4.0 4.6	87.9 88.0 87.4	3524	4S/09E-21A01 M	82.0	7-02-58 8-01-58 9-05-58 10-03-58	9.2 9.1 10.0 DRY	72.8 72.9 72.0	3524

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
TURLOCK IRRIGATION DISTRICT						MERCED IRRIGATION DISTRICT					
5-22.08						5-22.09					
5S/10E-21R01 M CONT.	92.0	10-03-58 11-06-58 12-14-58 3-04-59	5.6 6.9 7.1 7.7	86.4 85.1 84.9 84.3	3524	6S/12E-21N01 M CONT.	145.0	8-05-58 9-02-58 10-01-58 11-03-58 12-01-58 3-02-59	10.1 10.2 11.0 11.0 11.1 12.0	134.9 134.8 134.0 134.0 133.9 133.0	3525
5S/11E-21N01 M	125.0	7-02-58 8-01-58 9-05-58 10-03-58 11-06-58 12-14-58 3-04-59	3.0 3.8 4.0 3.8 4.8 5.4 4.3	122.0 121.2 121.0 121.2 120.2 119.6 120.7	3524	6S/13E-19N01 M	181.9	8-05-58 9-02-58 10-01-58 11-03-58 12-01-58 3-02-59	15.6 15.0 16.0 16.6 17.4 DRY	166.3 166.9 165.9 165.3 164.5	3525
6S/09E-15R01 M	60.0	7-02-58 8-01-58 9-05-58 10-03-58 11-06-58 12-14-58 3-04-59	3.0 3.1 3.4 2.8 4.3 5.5 4.5 3.5	57.0 56.9 56.6 57.2 55.7 54.5 55.5 56.5	3524	6S/14E-32N01 M	179.1	7-01-58 8-05-58 9-03-58 10-02-58 11-07-58 12-03-58 3-04-59	6.0 6.8 7.1 7.2 7.5 8.3 7.2	173.1 172.3 172.0 171.9 171.6 170.8 171.9	3525
6S/10E-21A01 M	87.0	7-02-58 8-01-58 9-05-58 10-03-58 11-06-58 12-14-58 3-04-59	4.0 4.1 2.2 3.1 4.2 4.8 4.8	83.0 82.9 84.8 83.9 82.8 82.2 82.2	3524	7S/10E-01N01 M	91.5	7-01-58 8-11-58 9-02-58 10-02-58 11-04-58 12-01-58 3-03-59	7.2 8.3 7.6 8.1 8.0 9.0 8.8	84.3 83.2 83.9 83.4 83.5 82.5 82.7	3525
6S/11E-08R01 M	115.0	7-02-58 8-01-58 9-05-58 10-03-58 11-06-58 12-14-58 2-04-59 3-04-59	9.6 9.6 7.4 7.8 8.0 8.1 9.9 10.0	105.4 105.4 107.6 107.2 107.0 106.9 105.1 105.0	3524	7S/11E-13N01 M	105.7	7-01-58 8-05-58 9-02-58 10-02-58 11-03-58 12-01-58 3-03-59	7.4 7.2 7.8 8.6 7.7 7.6 6.1	98.3 98.5 97.9 97.1 98.0 98.1 99.6	3525
CENTRAL VALLEY REGION											
MERCED IRRIGATION DISTRICT						MERCED IRRIGATION DISTRICT					
5-22.09						5-22.09					
6S/11E-34R01 M	112.0	7-01-58 8-01-58 9-02-58 10-02-58 11-03-58 12-01-58 3-03-59	7.7 7.6 9.3 10.2 6.3 6.6 6.5	104.3 104.4 102.7 101.8 105.7 105.4 105.5	3525	7S/12E-12R01 M	148.9	8-05-58 9-02-58 10-01-58 11-03-58 12-01-58 3-02-59	11.2 11.5 DRY DRY DRY 10.5	137.7 137.4	3525
6S/12E-21N01 M	145.0	7-01-58 8-05-58 9-02-58 10-01-58 11-03-58 12-01-58	10.5 10.5 3.7 3.8 3.4 4.6	134.5	3525	7S/12E-21D01 M	117.0	7-01-58 8-05-58 9-02-58 10-01-58 11-03-58	3.7 3.8 3.4 4.6 5.2	113.3 113.2 113.6 112.4 111.8	3525

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
MERCED IRRIGATION DISTRICT											
5-22.09											
7S/12E-21D01 M CONT.	117.0	12-01-58 3-02-59	5.6 5.1	111.4 111.9	3525	8S/14E-01A01 M CONT.	197.8	8-04-58 9-03-58 10-06-58 11-05-58 12-02-58 3-04-59	6.5 7.0 8.2 7.7 8.1 8.3	191.3 190.8 189.6 190.1 189.7 189.5	3525
7S/13E-16N01 M	152.2	8-04-58 9-02-58 10-01-58 11-03-58 12-01-58 3-02-59	7.4 7.4 8.0 8.0 8.7 9.0	144.8 144.8 144.2 144.2 143.5 143.2	3525	EL NIDO IRRIGATION DISTRICT					
7S/14E-16R01 M	188.0	7-01-58 8-05-58 9-03-58 10-02-58 11-07-58 12-03-58 3-04-59	4.8 4.8 6.2 8.2 9.0 8.0	183.2 183.2 181.8 179.8 179.0 180.0	3525	9S/13E-14R01 M	134.3	3-25-59	55.0	79.3	3527
7S/15E-20R01 M	217.0	7-01-58 8-11-58 9-03-58 10-02-58 11-07-58 12-02-58 3-04-59	6.5 7.8 9.0 10.2 11.7 12.1 13.4	210.5 209.2 208.0 206.8 205.3 204.9 203.6	3525	9S/14E-17K01 M	152.0	3-25-59	54.5	97.5	3527
7S/15E-36N01 M	235.2	7-01-58 8-04-58 9-03-58 10-02-58 11-05-58 12-02-58 3-04-59	4.8 5.1 4.5 6.0 7.7 8.8 9.2	230.4 230.1 230.7 229.2 227.5 226.4 226.0	3525	DELTA-MENDOTA AREA					
8S/12E-01D01 M	121.5	8-04-58 9-03-58 10-06-58 11-05-58 12-02-58 3-03-59	4.6 4.5 5.4 6.0 6.9 7.1	116.9 117.0 116.1 115.5 114.6 114.4	3525	2S/04E-16H01 M	79.8	9-30-58 3-19-59	14.3 11.6	65.5 68.2	6001
8S/13E-09R01 M	135.2	7-08-58 8-04-58 9-03-58 10-06-58 11-05-58 12-02-58 3-03-59	4.6 4.6 4.7 5.4 6.8 7.5 7.3	130.6 130.6 130.5 129.8 128.4 127.7 127.9	3525	2S/04E-25J01 M	81.0	9-18-58 3-19-59	24.7 23.9	56.3 57.1	6001
8S/14E-01A01 M	197.8	7-08-58	6.3	191.5	3525	2S/04E-28A01 M	188.1	10-24-58 3-04-59	133.4	54.7	6001
						2S/04E-29Q01 M	325.4	9-15-58 3-19-59	13.2 5.6	312.2 319.8	6001
						2S/05E-32A01 M	76.0	9-18-58 3-19-59	22.6 28.0	53.4 48.0	6001
						3S/05E-08R01 M	195.4	3-18-59	136.2	59.2	6001
						3S/05E-08R02 M	196.2	9-18-58 3-18-59	□ □		6001
						3S/05E-25Q01 M	208.0	9-22-58 3-05-59	127.0 127.3	81.0 80.7	6001
						3S/05E-26K01 M	212.7	10-13-58 3-18-59	132.5 131.3	80.2 81.4	6001
						3S/06E-16Q01 M	80.6	10-24-58 3-06-59	91.5 49.9	10.9 30.7	6001
						3S/06E-18N01 M	100.2	9-22-58 3-06-59	20.0 19.3	80.2 80.9	6001
						3S/06E-25D01 M	64.1	9-22-58 3-18-59	24.7 26.7	39.4 37.4	6001
						4S/06E-04H01 M	164.1	9-23-58	117.8	46.3	6001

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CENTRAL VALLEY REGION											
DELTA-MENDOTA AREA											
4S/06E-04H01 M	164.1	3-06-59	106.2	57.9	6001	7S/08E-22L01 M	129.6	9-15-58 3-20-59	56.2 48.9	73.4 80.7	6001
4S/06E-09R01 M	167.8	9-23-58 3-23-59	141.7 123.0	26.1 44.8	6001	7S/09E-04R01 M	66.5	9-29-58 3-27-59	17.8 17.9	48.7 48.6	6001
4S/07E-27M01 M	69.0	9-24-58 3-24-59	27.0 28.1	42.0 40.9	6001	7S/09E-26N01 M	68.9	9-30-58 3-18-59	8.6 6.0	60.3 62.9	6001
4S/07E-31D01 M	186.0	9-24-58 3-24-59	124.0 122.9	62.0 63.1	6001	8S/08E-01N01 M	124.2	9-25-58	20.2	104.0	6001
5S/07E-05D01 M	158.4	9-30-58 3-19-59	115.2 115.2	43.2 43.2	6001	8S/08E-15J01 M	172.8	9-24-58 3-11-59	73.7 52.4	99.1 120.4	6001
5S/07E-13K01 M	108.5	10-24-58 3-24-59	60.7 60.3	47.8 48.2	6001	8S/09E-26H01 M	76.6	9-12-58 3-18-59	51.4 7.6	25.2 69.0	6001
5S/07E-14D01 M	131.8	9-25-58 3-19-59	78.0 78.6	53.8 53.2	6001	8S/09E-26H03 M	76.0	9-12-58 3-18-59	6.6 2.4	69.4 73.6	6001
5S/07E-26P01 M	169.2	9-30-58 3-25-59	DRY □		6001	8S/10E-21L04 M	76.6	9-11-58 3-18-59	11.7 4.8	64.9 71.8	6001
5S/08E-06K01 M	59.0	10-20-58 3-19-59 4-08-59	15.5 18.3 14.8	43.5 40.7 44.2	6001	9S/08E-13D01 M	203.0	9-16-58 3-19-59	20.7 19.2	182.3 183.8	6001
5S/08E-35H01 M	50.5	3-18-59	9.2	41.3	6001	9S/09E-18N01 M	154.4	9-24-58 3-18-59	42.0 35.4	112.4 119.0	6001
6S/07E-12P01 M	249.3	9-26-58 3-25-59	14.6 13.5	234.7 235.8	6001	9S/09E-23L01 M	100.6	9-25-58 3-17-59	71.1 54.9	29.5 45.7	6001
6S/08E-12L01 M	64.9	10-20-58 3-18-59 4-08-59	18.0 □ 20.5	46.9 44.4	6001	9S/10E-19B01 M	85.2	9-10-58 3-17-59	6.5 1.3	78.7 83.9	6001
6S/08E-16M01 M	130.3	10-23-58 3-26-59	82.9 85.0	47.4 45.3	6001	9S/10E-23J01 M	86.5	10-23-58 3-16-59	□ 36.7	49.8	6001
6S/08E-27J01 M	115.5	9-15-58 3-23-59	53.2 56.8	62.3 58.7	6001	9S/11E-16H01 M	91.3	10-21-58 3-18-59 4-09-59	□ □ □		6001
6S/08E-29J01 M	191.0	9-26-58 3-26-59	138.8 133.0	52.2 58.0	6001	9S/11E-20J01 M	92.2	9-17-58 3-17-59	44.8 39.7	47.4 52.5	6001
7S/08E-12E01 M	107.4	10-22-58 3-27-59	38.9 39.2	68.5 68.2	6001	10S/09E-06A01 M	147.0	9-16-58 3-10-59	7.6 10.6	139.4 136.4	6001
7S/08E-22B01 M	128.9	9-15-58 3-20-59	62.7 61.8	66.2 67.1	6001	10S/09E-08B01 M	168.0	9-17-58 3-10-59	93.0 91.7	75.0 76.3	6001

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
DELTA-MENDOTA AREA						DELTA-MENDOTA AREA					
10S/10E-02R01 M	99.7	9-19-58 3-17-59	21.5 16.3	78.2 83.4	6001	12S/12E-16H05 M CONT.	173.0	5-01-59 5-08-59 6-26-59	133.2 132.1 133.8	39.8 40.9 39.2	5000
10S/10E-11R01 M	107.4	9-19-58 3-17-59	15.2 13.6	92.2 93.8	6001	12S/12E-20J01 M	192.5	9-23-58 2-25-59	39.6 35.9	152.9 156.6	6001
10S/10E-31G01 M	191.3	9-19-58 3-20-59	186.5 153.9	4.8 37.4	6001	12S/12E-25D01 M	184.4	9-18-58 3-12-59	70.1 66.3	114.3 118.1	6001
10S/11E-23D01 M	99.6	9-23-58 3-17-59	5.3 6.3	94.3 93.3	6001	12S/12E-25D02 M	184.5	9-18-58 3-12-59	18.6 18.2	165.9 166.3	6001
10S/11E-27E02 M	102.3	10-22-58 3-13-59	□ 61.7	40.6	6001	12S/13E-10N01 M	147.6	9-18-58 3-16-59	2.9 3.7	144.7 143.9	6001
11S/10E-11J01 M	158.5	10-22-58 3-18-59	53.6 39.0	104.9 119.5	6001	12S/13E-27Q01 M	186.1	9-18-58 3-18-59	25.5 24.4	160.6 161.7	6001
11S/10E-22Q01 M	248.8	9-23-58 3-18-59	141.1 135.0	107.7 113.8	6001	12S/14E-30C01 M	154.5	9-18-58 3-18-59	20.7 22.3	133.8 132.2	6001
11S/11E-02J02 M	106.6	9-16-58 3-11-59	4.5 2.4	102.1 104.2	6001	13S/11E-23E01 M	498.0	10-21-58 3-10-59	□ □	- -	6001
11S/11E-22K01 M	115.0	9-19-58 3-17-59	5.9 3.0	109.1 112.0	6001	13S/12E-05Q01 M	249.0	10-09-58 10-21-58 2-26-59	263.3 251.1 273.4	14.3 2.1 24.4	6001
11S/11E-22Q03 M	119.3	9-15-58 3-09-59	10.7 9.1	108.6 110.2	6001	13S/12E-22N01 M	285.0	10-11-58 10-21-58 2-26-59 5-07-59	189.9 □ 191.4 192.6	95.1 - 93.6 92.4	6001
11S/12E-31C01 M	133.2	10-22-58 3-20-59	34.6 22.3	98.6 110.9	6001	13S/12E-34P01 M	325.8	10-21-58 2-27-59	□ □	- -	6001
12S/11E-09N01 M	281.0	10-09-58 10-11-58 3-20-59	□ 327.0 □	46.0	6001	13S/13E-10R01 M	220.1	11-06-58 3-19-59 5-08-59	216.1 219.2 218.7	4.0 0.9 1.4	6001
12S/11E-35Q01 M	311.2	10-21-58 2-26-59	329.1 327.2	17.9 16.0	6001	13S/13E-12A01 M	185.3	9-18-58 3-19-59	5.7 5.3	179.6 180.0	6001
12S/12E-04D01 M	138.2	9-22-58 3-16-59	2.7 4.3	135.5 133.9	6001	13S/13E-15R01 M	233.0	7-30-58 8-28-58 9-25-58 10-22-58 10-24-58 11-21-58	228.0 232.2 232.9 □ 227.2 235.2	5.0 0.8 0.1 - 5.8 2.2	6001
12S/12E-16H05 M	173.0	10-24-58 11-21-58 12-17-58 1-14-59 2-12-59 3-11-59 4-08-59	133.4 132.8 132.6 132.5 132.9 132.9 133.1	39.6 40.2 40.4 40.5 40.1 40.1 39.9	5000						

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
DELTA-MENDOTA AREA											
13S/13E-15R01 M	233.0	12-17-58	230.1	2.9	6001	9S/17E-35J01 M	320.5	3-04-59	67.0	253.5	6001
CONT.		1-14-59	234.8	1.8							
		2-12-59	235.8	2.8		9S/18E-33Q01 M	365.6	10-14-58	47.3	318.3	6001
		3-11-59	230.3	2.7				3-03-59	47.6	318.0	
		3-16-59	□			10S/14E-26C01 M	158.3	12-31-58	44.1	114.2	6001
		4-08-59	231.3	1.7				3-04-59	41.6	116.7	
		5-01-59	227.9	5.1		10S/15E-23K01 M	194.3	1-02-59	52.0	142.3	6001
		5-08-59	226.5	6.5				3-05-59	52.1	142.2	
		6-26-59	240.4	7.4		10S/16E-29R01 M	210.5	1-07-59	63.8	146.7	6001
13S/13E-33N01 M	294.4	10-20-58	□	285.1	5001			3-05-59	63.1	147.4	
		3-12-59	9.3			MADERA IRRIGATION DISTRICT					
13S/14E-09J01 M	168.0	9-17-58	12.4	155.6	6001	10S/16E-35A02 M	230.8	11-24-58	71.0	159.8	6001
		1-20-59	12.6	155.4				3-02-59	69.8	161.0	
		4-09-59	12.9	155.1		10S/17E-27E01 M	266.0	11-24-58	72.4	193.6	6001
		5-08-59	11.7	156.3				3-02-59	71.9	194.1	
		6-04-59	DRY			10S/18E-20B01 M	327.7	10-13-58	56.4	271.3	6001
		7-02-59	12.8	155.2				3-03-59	57.4	270.3	
13S/14E-27O01 M	190.8	9-17-58	□		6001	10S/19E-16D01 M	388.0	10-13-58	21.0	367.0	6001
		3-16-59	□					3-03-59	21.0	367.0	
13S/14E-32O01 M	231.4	10-20-58	94.0	137.4	6001	11S/16E-22A02 M	211.0	11-26-58	65.6	145.4	6001
		3-19-59	□					3-05-59	□		
13S/14E-35P01 M	191.9	10-22-58	205.0	13.1	6001	11S/17E-24D01 M	267.8	11-25-58	57.4	210.4	6001
		3-19-59	201.2	9.3				3-03-59	53.2	214.6	
13S/15E-30N01 M	172.7	9-17-58	7.8	164.9	6001	11S/17E-27C01 M	251.6	12-01-58	57.4	194.2	6001
		3-12-59	9.2	163.5				3-03-59	61.1	190.5	
CHOWCHILLA WATER DISTRICT											
			5-22.12			11S/18E-20N01 M	275.4	12-01-58	66.4	209.0	6001
9S/14E-25R01 M	187.1	12-28-58	44.0	143.1	6001			3-06-59	65.2	210.2	
	185.7	3-04-59	42.7	143.0		11S/19E-17Q01 M	338.0	10-13-58	78.3	259.7	6001
9S/15E-25J02 M	233.0	1-02-59	37.2	195.8	6001			3-03-59	77.0	261.0	
		3-05-59	□			11S/20E-22M01 M	419.9	10-13-58	109.7	310.2	6001
9S/16E-11H01 M	286.4	12-30-58	59.2	227.2	6001			3-02-59	107.5	312.4	
		3-03-59	57.9	228.5		11S/21E-31D03 M	308.5	10-13-58	22.5	286.0	6001
9S/16E-35D01 M	267.1	1-02-59	41.5	225.6	6001			3-03-59	18.8	289.7	
		3-03-59	45.0	222.1		12S/16E-23A01 M	207.5	12-02-58	□		6001
9S/17E-21L01 M	322.0	10-14-58	83.7	238.3	6001						
		3-04-59	78.3	243.7							
9S/17E-35J01 M	320.5	10-14-58	66.2	254.3	6001						

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
MADERA IRRIGATION DISTRICT											
12S/16E-23A01 M	207.5	3-11-59	55.1	152.4	6001	12S/21E-34D01 M	388.3	12-04-58	36.3	352.0	3631
12S/17E-21H01 M	231.0	12-03-58 3-10-59	60.8	170.2	6001	CONT.		12-30-58	36.4	351.9	
12S/18E-21G01 M	268.2	12-02-58 3-09-59	79.5 75.7	188.7 192.5	6001			2-03-59	35.5	352.8	
12S/19E-28A01 M	309.4	10-13-58 3-02-59	83.0 80.2	226.4 229.2	6001			2-28-59	35.1	353.2	
WEST CHOWCHILLA MADERA AREA											
10S/13E-14M01 M	122.6	10-14-58 3-06-59	33.7 28.1	88.9 94.5	6001	12S/22E-21E01 M	470.5	4-02-59	34.3	354.0	
10S/14E-01R01 M	178.0	12-31-58 3-02-59	38.6 38.0	139.4 140.0	6001			4-30-59	36.1	352.2	
11S/14E-33L01 M	137.1	10-15-58 3-10-59	14.6	122.5	6001	13S/17E-22B01 M	221.4	5-28-59	36.3	352.0	
11S/15E-33E01 M	158.0	10-17-58 3-09-59	19.3 16.7	138.7 141.3	6001			6-29-59	□		
12S/14E-28G01 M	146.2	10-16-58 3-10-59	13.6 12.8	132.6 133.4	6001	13S/18E-16D01 M	256.5	10-10-58 3-02-59	18.2 15.2	452.3 455.3	6001
12S/15E-14L01 M	166.8	10-17-58 3-10-59	24.5 24.2	142.3 142.6	6001			7-29-58	27.4	194.0	3631
FRESNO IRRIGATION DISTRICT											
12S/20E-14A01 M	361.0	8-01-58 8-27-58 10-10-58 11-03-58 12-01-58 1-05-59 1-30-59 3-03-59 3-26-59 5-04-59 5-28-59 6-29-59	93.0 89.1 88.6 88.5 88.7 88.6 88.8 88.1 88.9 89.0 89.0 92.8	268.0 271.9 272.4 272.5 272.3 272.4 272.2 272.9 272.1 272.0 272.0 268.2	6001	13S/19E-09Q01 M	289.2	8-29-58 9-29-58 10-14-58 10-27-58 12-01-58 12-29-58 1-30-59 2-27-59 3-04-59 3-31-59 4-29-59 6-02-59 6-25-59	56.3 55.4 55.8 55.8 55.9 55.8 55.8 56.1 57.0 56.7 55.4 55.6	232.9 233.8 233.4 233.4 233.3 233.4 233.1 232.2 232.5 233.8 233.6	3631
12S/21E-34D01 M	388.3	7-30-58 8-29-58 9-30-58 10-31-58	36.4 36.1 35.5 36.8	351.9 352.2 352.8 351.5	3631	13S/20E-21J01 M	310.3	7-01-58 8-01-58 9-01-58 10-01-58 11-01-58 12-01-58 1-01-59 2-01-59	63.2 65.2 66.8 66.0 65.5 63.5 63.4 63.2	247.1 245.1 243.5 244.3 244.8 246.8 246.9 247.1	3200

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
FRESNO IRRIGATION DISTRICT											
135/20E-21J01 M	310.3	3-01-59	63.1	247.2	3200	145/18E-08J01 M	228.2	1-29-59	43.3	184.9	3631
		4-01-59	63.2	247.1		CONT.		3-01-59	42.8	185.4	
		5-01-59	63.8	246.5				3-31-59	50.6	177.6	
		6-01-59	65.8	244.5				4-29-59	47.9	180.3	
								6-02-59	□		
								6-25-59	□		
135/21E-23D01 M	364.8	7-31-58	13.7	351.1	3631	145/18E-25B01 M	235.2	7-30-58	49.0	186.2	3631
		8-29-58	17.2	347.6				8-29-58	51.0	184.2	
		9-30-58	17.2	347.6				9-29-58	49.6	185.6	
		10-31-58	13.2	351.6				10-28-58	49.2	186.0	
		11-30-58	14.5	350.3				12-02-58	49.2	186.0	
		12-30-58	14.6	350.2				12-30-58	48.9	186.3	
		2-03-59	14.8	350.0				1-29-59	48.7	186.5	
		3-03-59	14.9	349.9				3-01-59	48.9	186.3	
		4-02-59	18.2	346.6				4-01-59	49.6	185.6	
		4-30-59	19.1	345.7				4-29-59	50.0	185.2	
		5-28-59	14.2	350.6				6-01-59	52.4	182.8	
		6-29-59	15.6	349.2				6-25-59	48.0	187.2	
135/22E-21A01 M	406.1	7-30-58	34.7	371.4	3631	145/19E-20B01 M	249.0	7-30-58	40.9	208.1	3631
		8-29-58	31.5	374.6				8-29-58	□		
		9-30-58	30.5	375.6				9-29-58	37.9	211.1	
		10-31-58	31.6	374.5				10-28-58	33.8	215.2	
		12-04-58	33.5	372.6				12-02-58	33.0	216.0	
		1-02-59	33.7	372.4				12-30-58	33.1	215.9	
		2-03-59	33.6	372.5				1-29-59	33.8	215.2	
		3-03-59	31.3	374.8				3-01-59	33.8	215.2	
		4-02-59	33.9	372.2				4-01-59	□		
		4-30-59	39.4	366.7				4-29-59	41.4	207.6	
		5-28-59	31.7	374.4				6-01-59	33.7	215.3	
		6-29-59	34.6	371.5				6-26-59	34.4	214.6	
135/23E-31P01 M	407.3	7-30-58	28.6	378.7	3631	145/21E-14A01 M	335.0	7-30-58	28.9	306.1	3631
		8-29-58	28.3	379.0				8-29-58	28.5	306.5	
		9-30-58	□					9-29-58	29.4	305.6	
		10-30-58	26.4	380.9				10-30-58	29.0	306.0	
		12-03-58	25.8	381.5				12-03-58	28.9	306.1	
		1-02-59	26.4	380.9				1-02-59	28.9	306.1	
		2-03-59	26.6	380.7				2-02-59	28.2	306.8	
		3-03-59	26.5	380.8				3-02-59	27.3	307.7	
		4-02-59	□					4-01-59	29.1	305.9	
		4-30-59	29.7	377.6				5-01-59	29.1	305.9	
		5-29-59	27.5	379.8				5-29-59	□		
		6-29-59	27.8	379.5				6-26-59	□		
145/18E-08J01 M	228.2	7-29-58	52.8	175.4	3631	155/20E-13E01 M	283.0	7-30-58	24.9	258.1	3631
		8-29-58	53.8	174.4				8-29-58	24.6	258.4	
		9-29-58	52.5	175.7				9-29-58	24.2	258.8	
		10-28-58	48.6	179.6				10-30-58	24.1	258.9	
		12-01-58	45.3	182.9							
		12-30-58	44.1	184.1							

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CENTRAL VALLEY REGION											
CENTRAL VALLEY REGION											
FRESNO IRRIGATION DISTRICT											
FRESNO SLOUGH AREA											
15S/20E-13E01 M CONT.	283.0	12-03-58 12-31-58 2-01-59 3-02-59 4-01-59 4-30-59 6-01-59 6-26-59	5-22.15 25.0 25.4 25.8 26.3 27.2 26.6 25.9 27.4	258.0 257.6 257.2 256.7 255.8 256.4 257.1 255.6	3631	14S/17E-25A01 M CONT.	214.4	3-31-59 4-29-59 6-02-59 6-25-59	5-22.17 64.5 63.9	149.9 150.5	3631
CITY OF FRESNO											
14S/20E-09L01 M	282.6	7-01-58 8-01-58 9-01-58 10-01-58 11-01-58 12-01-58 1-01-59	58.5 59.8 61.4 60.2 59.8 56.7	224.1 222.8 221.2 222.4 222.8 225.9	3200	15S/16E-01L01 M	173.9	10-21-58 3-09-59	21.1	152.8	6001
14S/20E-10M01 M	291.4	7-01-58 8-01-58 9-01-58 10-01-58 11-01-58 12-01-58 1-01-59 2-01-59 3-01-59 4-01-59 5-01-59 6-01-59	70.2 72.4 72.3 72.4 71.2 67.3 65.3 63.0 62.1 64.3 67.9 71.1	221.2 219.0 219.1 219.0 220.2 224.1 226.1 228.4 229.3 227.1 223.5 220.3	3200	15S/17E-22R01 M	187.9	10-22-58 12-02-58 3-11-59	48.8 48.4	139.1 139.5	6001
FRESNO SLOUGH AREA											
13S/15E-28H01 M	168.8	10-15-58 3-05-59	29.1 9.5	139.7 159.3	6001	16S/16E-10N01 M	192.0	10-14-58 3-03-59	98.9	93.1	6001
14S/15E-28P01 M	166.5	10-16-58 3-05-59	57.6 52.5	108.9 114.0	6001	16S/17E-23N01 M	191.2	10-13-58 3-03-59	76.5	114.7	6001
14S/16E-22N01 M	169.5	10-20-58 3-10-59	19.5 17.0	150.0 152.5	6001	16S/18E-27C01 M	198.5	10-14-58 2-26-59	62.7 67.3	135.8 131.2	5050
14S/17E-25A01 M	214.4	8-29-58 9-29-58 10-28-58 12-01-58 12-30-58 1-29-59 3-01-59	71.8 67.8 62.6 58.4 56.8 55.3 57.0	142.6 146.6 151.8 156.0 157.6 159.1 157.4	3631	16S/18E-31O02 M	193.2	10-14-58 2-25-59	82.5 74.9	110.7 118.3	5050
CONSOLIDATED IRRIGATION DISTRICT											
14S/17E-25A01 M	214.4	8-29-58 9-29-58 10-28-58 12-01-58 12-30-58 1-29-59 3-01-59	71.8 67.8 62.6 58.4 56.8 55.3 57.0	142.6 146.6 151.8 156.0 157.6 159.1 157.4	3631	17S/17E-12H01 M	199.5	10-14-58 2-25-59 5-06-59	120.0 123.4	79.5 76.1	5050
CONSOLIDATED IRRIGATION DISTRICT											
14S/22E-22N01 M	355.7	6-01-59	22.8	332.9	3636	17S/18E-23A02 M	201.0	10-16-58 2-25-59	43.2 45.0	157.8 156.0	5050
15S/19E-24N01 M	246.6	7-01-58	60.5	186.1	3636	14S/22E-22N01 M	355.7	6-01-59	22.8	332.9	3636

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
CONSOLIDATED IRRIGATION DISTRICT											
5-22.18											
15S/19E-24N01 M	246.6	8-01-58	60.0	186.6	3636	15S/22E-29D01 M	321.9	10-01-58	20.7	301.2	3536
CONT.											
		9-01-58	56.4	190.2				11-01-58	21.4	300.5	
		10-01-58	53.2	193.4				1-01-59	23.2	298.7	
		11-01-58	55.6	191.0				2-01-59	23.5	298.4	
		1-01-59	51.0	195.6				3-01-59	23.4	298.5	
		2-01-59	50.8	195.8				4-01-59	25.6	296.3	
		3-01-59	51.2	195.4				5-01-59	26.1	295.8	
		4-01-59	58.9	187.7				6-01-59	26.2	295.7	
		5-01-59	58.2	188.4							
		6-01-59	62.3	184.3							
15S/20E-28A01 M	264.8	7-01-58	40.6	224.2	3636	16S/19E-14A01 M	235.5	7-01-58	65.8	169.7	3636
		8-01-58	41.6	223.2				8-01-58	66.7	168.8	
		9-01-58	41.3	223.5				9-01-58	64.4	171.1	
		10-01-58	38.2	226.6				10-01-58	60.2	175.3	
		11-01-58	38.4	226.4				11-01-58	62.0	173.5	
		1-01-59	37.9	226.9				1-01-59	57.7	177.8	
		2-01-59	37.3	227.5				2-01-59	56.8	178.7	
		3-01-59	37.0	227.8				3-01-59	57.5	178.0	
		4-01-59	39.4	225.4				4-01-59	60.9	174.6	
		5-01-59	40.1	224.7				5-01-59	64.9	170.6	
		6-01-59	40.1	224.7				6-01-59	67.4	168.1	
15S/21E-15D01 M	301.2	7-01-58	23.8	277.4	3636	16S/20E-22N01 M	247.7	7-01-58	42.1	205.6	3636
		8-01-58	23.8	277.4				8-01-58	40.5	207.2	
		9-01-58	23.8	277.4				9-01-58	40.9	206.8	
		10-01-58	23.7	277.5				10-01-58	37.0	210.7	
		11-01-58	23.8	277.4				11-01-58	36.6	211.1	
		1-01-59	20.6	280.6				1-01-59	35.3	212.4	
		2-01-59	20.8	280.4				2-01-59	33.8	213.9	
		3-01-59	20.3	280.9				3-01-59	35.4	212.3	
		4-01-59	21.2	280.0				4-01-59	38.9	208.8	
		5-01-59	22.2	279.0				5-01-59	45.0	202.7	
		6-01-59	22.2	279.0				6-01-59	45.4	202.3	
15S/22E-16A01 M	337.0	7-01-58	23.5	313.5	3636	16S/21E-22N01 M	271.0	7-01-58	35.2	235.8	3636
		8-01-58	21.8	315.2				8-01-58	36.4	234.6	
		9-01-58	20.5	316.5				9-01-58	34.6	236.4	
		10-01-58	20.1	316.9				10-01-58	31.4	239.6	
		11-01-58	20.6	316.4				11-01-58	30.4	240.6	
		1-01-59	21.6	315.4				1-01-59	28.6	242.4	
		2-01-59	21.5	315.5				2-01-59	28.0	243.0	
		3-01-59	21.7	315.3				3-01-59	27.8	243.2	
		4-01-59	23.4	313.6				4-01-59	32.4	238.6	
		5-01-59	24.2	312.8				5-01-59	33.6	237.4	
		6-01-59	24.1	312.9				6-01-59	34.9	236.1	
15S/22E-29D01 M	321.9	7-01-58	24.9	297.0	3536	16S/22E-23R01 M	297.5	7-01-58	18.7	278.8	3636
		8-01-58	21.9	300.0				8-01-58	17.0	280.5	
		9-01-58	21.0	300.9				9-01-58	17.8	279.7	
								10-01-58	17.9	279.6	
								11-01-58	18.3	279.2	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
CONSOLIDATED IRRIGATION DISTRICT											
5-22.18											
16S/22E-23R01 M CONT.	297.5	1-01-59	18.9	278.6	3636	15S/23E-23A02 M CONT.	358.0	7-30-58	24.3	333.7	4637
		2-01-59	18.7	278.8				9-01-58	23.8	334.2	
		3-01-59	18.8	278.7				9-30-58	26.2	331.8	
		4-01-59	20.5	277.0				10-31-58	28.8	329.2	
		5-01-59	21.2	276.3				11-28-58	29.3	328.7	
		6-01-59	22.0	275.5				12-29-58	31.6	326.4	
								1-27-59	32.1	325.9	
								2-25-59	32.7	325.3	
17S/22E-03C01 M	286.0	7-01-58	14.0	272.0	3636			3-27-59	43.1	314.9	
		8-01-58	12.8	273.2				4-29-59	41.8	316.2	
		9-01-58	13.0	273.0				5-28-59	36.9	321.1	
		10-01-58	13.5	272.5				6-26-59	41.3	316.7	
		11-01-58	14.5	271.5							
		1-01-59	15.7	270.3				7-29-58	12.4	375.6	4637
		2-01-59	15.8	270.2				9-04-58	11.5	376.5	
		3-01-59	16.0	270.0				10-03-58	19.4	368.6	
		4-01-59	16.9	269.1				11-04-58	24.1	363.9	
		5-01-59	19.6	266.4				12-02-58	25.0	363.0	
		6-01-59	20.8	265.2				1-01-59	24.7	363.3	
ALTA IRRIGATION DISTRICT											
5-22.19											
14S/23E-36R01 M	395.0	7-01-58	28.1	366.9	4637	15S/24E-22D01 M	388.0	7-29-58	12.4	375.6	4637
		7-30-58	25.7	369.3				9-04-58	11.5	376.5	
		9-01-58	24.8	370.2				10-03-58	19.4	368.6	
		9-30-58	28.9	366.1				11-04-58	24.1	363.9	
		10-31-58	33.7	361.3				12-02-58	25.0	363.0	
		11-28-58	32.5	362.5				1-01-59	24.7	363.3	
		12-29-58	34.7	360.3				1-31-59	23.9	364.1	
		1-27-59	35.1	359.9				2-28-59	24.8	363.2	
		2-25-59	35.9	359.1				3-31-59	29.8	358.2	
		3-27-59	44.7	350.3				4-30-59	22.4	365.6	
		4-29-59	39.3	355.7				5-29-59	18.7	369.3	
		5-28-59	37.1	357.9				6-30-59	22.4	365.6	
		6-28-59	□								
ALTA IRRIGATION DISTRICT											
5-22.19											
14S/24E-31P01 M	395.0	7-01-58	24.8	370.2	4637	16S/23E-23E01 M	314.0	7-02-58	14.0	300.0	4637
		7-30-58	21.5	373.5				7-31-58	13.0	301.0	
		9-01-58	18.8	376.2				9-02-58	11.7	302.3	
		9-30-58	22.0	373.0				9-30-58	12.1	301.9	
		10-31-58	25.3	369.7				11-03-58	12.7	301.3	
		11-28-58	26.8	368.2				12-01-58	13.3	300.7	
		12-29-58	28.9	366.1				12-31-58	13.6	300.4	
		1-27-59	30.0	365.0				1-30-59	14.0	300.0	
		2-25-59	30.9	364.1				2-27-59	14.7	299.3	
		3-27-59	34.9	360.1				3-30-59	16.4	297.6	
		4-29-59	33.2	361.8				4-29-59	15.8	298.2	
		5-28-59	29.4	365.6				5-28-59	15.1	298.9	
		6-26-59	□					6-29-59	16.0	298.0	
ALTA IRRIGATION DISTRICT											
5-22.19											
15S/23E-23A02 M	358.0	7-01-58	26.3	331.7	4637	16S/24E-21J01 M	336.0	7-30-58	□		4637
								9-03-58	□		
								10-01-58	9.3	326.7	
								11-29-58	11.8	324.2	
								12-30-58	12.3	323.7	
								1-29-59	12.7	323.3	
								2-26-59	12.5	323.5	
								3-28-59	17.5	318.5	
								4-29-59	15.4	320.6	
								5-27-59	14.2	321.8	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface in feet	Water Surface Elev. in feet	Agency Supplying Data	State Well Number	R.P. Elev. in feet	Date	Dist. R.P. to Water Surface in feet	Water Surface Elev. in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
ALTA IRRIGATION DISTRICT											
16S/24E-21J01 M	336.0	6-27-59	5-22.19	319.2	4637	17S/25E-10C01 M	335.0	11-01-58	5-22.19	303.9	4637
16S/25E-29A01 M	364.0	7-09-58	13.1	350.9	4637			11-29-58	31.1	305.6	
		7-30-58	11.7	352.3				12-30-58	29.4	306.1	
		9-03-58	□					1-29-59	29.7	305.3	
		10-01-58	21.0	343.0				2-26-59	29.7	305.3	
		11-01-58	24.3	339.7				3-28-59	28.9	306.1	
		12-30-58	25.7	338.3				4-28-59	29.9	305.1	
		1-29-59	25.7	338.3				5-27-59	30.4	304.6	
		2-26-59	23.3	340.7				6-27-59	30.5	304.5	
		3-28-59	□			17S/25E-18R01 M	324.0	7-28-58	49.2	274.8	4637
		4-29-59	27.5	336.5				9-03-58	53.0	271.0	
		5-28-59	22.0	342.0				10-02-58	51.7	272.3	
		6-27-59	□					11-01-58	51.0	273.0	
17S/22E-24R01 M	275.0	7-02-58	17.1	257.9	4637			12-30-58	46.1	277.9	
		7-31-58	17.2	257.8				1-29-59	46.5	277.5	
		9-02-58	16.9	258.1				2-26-59	43.7	280.3	
		10-01-58	16.7	258.3				3-28-59	45.4	278.6	
		11-03-58	16.3	258.7				4-27-59	47.0	277.0	
		12-01-58	16.3	258.7				5-27-59	52.5	271.5	
		12-31-58	16.5	258.5				6-27-59	54.2	269.8	
		1-30-59	16.6	258.4				LOWER KINGS RIVER AREA			
		2-27-59	16.1	258.9				17S/20E-20B01 M	227.0	204.7	5050
		3-30-59	16.9	258.1						204.5	
		4-30-59	18.0	257.0							
		5-29-59	18.4	256.6				17S/21E-11G01 M	257.2	221.4	5050
		6-29-59	17.8	257.2						233.2	
17S/23E-23D01 M	283.0	7-02-58	8.3	274.7	4637			18S/18E-03N01 M	229.0	101.3	5000
		7-31-58	7.7	275.3							
		8-28-58	7.8	275.2				10-22-58	□		
		9-02-58	6.5	276.5				5-07-59	163.1	65.9	
		10-01-58	12.9*	270.1				18S/18E-12N02 M	226.0	101.2	6001
		7-28-58	18.7	285.6						94.3	
		9-03-58	18.6	285.7				5-28-59	124.8		
		10-02-58	18.8	285.5				6-25-59	131.7		
		11-01-58	18.8	285.5				10-18-58	6.8	208.2	5050
		11-29-58	18.9	285.4				2-27-59	6.7	208.3	
		12-30-58	18.8	285.5				18S/20E-16A01 M	230.0	222.4	5050
		1-29-59	19.5	284.8							
		2-26-59	19.0	285.3				18S/21E-10R01 M	255.0	215.5	5050
		3-28-59	19.7	284.6						216.9	
		4-27-59	19.6	284.7				2-26-59	38.1		
		5-27-59	□					19S/19E-25A01 M	208.5		5050
		7-28-58	28.5	306.5						206.7	
17S/25E-10C01 M	335.0	9-03-58	30.7	304.3	4637			2-26-59	1.8		
		10-02-58	30.5	304.5				10-16-58	56.2	161.3	5050
								2-26-59	50.7	166.8	

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
LOWER KINGS RIVER AREA											
20S/20E-09C01 M	208.5	10-15-58 2-18-59	5-22.20 7.1 5.3	201.4 203.2	5050	18S/23E-34A01 M	272.0	11-05-58 2-25-59	5-22.24 95.0	177.0	5050
20S/21E-03A01 M	220.3	10-05-58 2-18-59	13.0 14.4	207.3 205.9	6001	18S/24E-26A01 M	312.5	10-07-58 2-20-59	44.1 45.9	268.4 266.6	6001
20S/21E-25L01 M	208.0	10-05-58 2-19-59	4.9 5.9	203.1 202.1	6001	18S/25E-33F01 M	339.0	10-06-58 2-20-59	29.0 31.2	310.0 307.8	6001
21S/21E-04A01 M	198.0	10-14-58 2-19-59	77.6 68.8	120.4 129.2	5050	18S/26E-27E01 M	389.0	10-07-58 2-20-59	19.7 21.4	369.3 367.6	6001
ORANGE COVE IRRIGATION DISTRICT											
14S/25E-30D01 M	510.0	10-08-58 2-12-59	18.6 19.4	491.4 490.6	6001	19S/22E-01N01 M	245.9	10-05-58 2-18-59	37.8 46.6	208.1 199.3	6001
15S/25E-22N01 M	485.3	7-15-58 8-22-58 9-22-58 10-14-58 11-26-58 12-17-58	27.7 29.1 30.6 29.3 28.0 27.2	457.6 456.2 454.7 456.0 457.3 458.1	6001	19S/22E-36E01 M	236.0	10-05-58 2-18-59	78.4 74.2	157.6 161.8	6001
16S/26E-32P01 M	405.0	10-07-58 2-13-59	8.4 6.7	396.6 398.3	6001	19S/25E-25D01 M	337.0	11-20-58 2-20-59	41.4 42.2	295.6 294.8	5050
17S/26E-17P02 M	385.5	10-07-58 2-13-59	10.9 13.3	374.6 372.2	6001	20S/22E-10C01 M	227.0	11-19-58 2-25-59	77.0	150.0	5050
18S/25E-12O01 M	364.4	11-12-58 2-24-59	42.7 34.7	321.7 329.7	5050	20S/25E-17A01 M	296.2	10-06-58 2-19-59	37.8	258.4	6001
STONE CORRAL IRRIGATION DISTRICT											
17S/27E-34P01 M	473.0	10-07-58 2-12-59	11.0 10.7	462.0 462.3	6001	19S/23E-24G01 M	272.5	10-09-58 2-07-59	67.7	204.8	6001
18S/22E-29A01 M	251.5	10-07-58 2-12-59	55.6 45.3	195.9 206.2	6001	19S/23E-32H01 M	251.0	9-29-58 2-07-59	86.2 74.4	164.8 176.6	6001
18S/22E-29N01 M	249.0	10-06-58	□	□	6001	19S/24E-16P01 M	290.0	10-13-58 2-13-59	64.6 59.1	225.4 230.9	6001
IVANHOE IRRIGATION DISTRICT											
18S/22E-29A01 M	251.5	10-07-58 2-12-59	55.6 45.3	195.9 206.2	6001	20S/23E-09J01 M	245.6	10-09-58 2-10-59	60.2 66.2	185.4 179.4	6001
KAWEAH DELTA WATER CONSERV DIST											
18S/22E-29N01 M	249.0	10-06-58	□	□	6001	20S/24E-23K01 M	270.0	10-06-58 2-19-59	48.4 55.1	221.6 214.9	6001
EXETER IRRIGATION DISTRICT											
18S/22E-29N01 M	249.0	10-06-58	□	□	6001	18S/27E-29D01 M	446.0	10-07-58 2-05-59	25.2 22.2	420.8 423.8	6001
18S/22E-29A01 M	251.5	10-07-58 2-12-59	55.6 45.3	195.9 206.2	6001	19S/26E-23E01 M	359.0	10-09-58	89.0	270.0	6001

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CENTRAL VALLEY REGION											
EXETER IRRIGATION DISTRICT											
19S/26E-23E01 M	359.0	2-06-59	84.8	274.2	6001	22S/24E-15A01 M	251.5	11-12-58	111.9	139.6	6001
LINDSAY-STRAITHMORE IRRIG DIST											
19S/27E-29D01 M	290.0	10-07-58	□		6001	CONT.					
		2-18-59	67.0	223.0	6001			12-04-58	109.1	142.4	
20S/27E-06B01 M	373.0	10-07-58	67.5	305.5	6001			3-06-59	110.4	141.1	
		2-18-59	64.7	308.3	6001			3-25-59	124.7	126.8	
LINDMORE IRRIGATION DISTRICT											
20S/26E-22C02 M	342.8	10-09-58	121.1	221.7	6001	22S/25E-15A01 M	301.0	7-09-58	150.1	150.9	6001
		2-13-59	111.2	231.6	6001			8-13-58	129.0	172.0	
20S/27E-29J01 M	407.0	10-07-58	64.5	342.5	6001			9-10-58	138.0	163.0	
		2-18-59	62.0	345.0	6001			10-14-58	131.5	169.5	
PORTERVILLE IRRIGATION DISTRICT											
21S/27E-23N01 M	439.0	10-03-58	40.0	399.0	6001			11-08-58	128.4	172.6	
		2-13-59	35.9	403.1	6001			12-04-58	123.9	177.1	
22S/27E-10R01 M	468.0	7-01-58	109.2	358.8	6001			1-12-59	123.4	177.6	
		10-02-58	110.6	357.4	6001			3-04-59	125.0	176.0	
		2-12-59	106.5	361.5	6001			3-25-59	127.6	173.4	
		4-14-59	108.3	359.7	6001			4-16-59	130.5	170.5	
LOWER TULE RIVER IRRIGATION DIST											
21S/23E-22J01 M	222.5	10-09-58	62.2	160.3	6001	22S/26E-06A01 M	337.0	10-02-58	104.5	232.5	6001
		2-11-59	60.8	161.7	6001			2-05-59	93.9	243.1	
		2-19-59	59.9	162.6	6001			VANDALIA IRRIGATION DISTRICT			
21S/24E-15H01 M	253.3	10-10-58	39.4	214.4	6001			22S/28E-18A01 M	550.0	10-03-58	6001
		3-06-59	46.4	207.4	6001					2-11-59	106.3
21S/25E-08H01 M	286.5	10-15-58	32.4	254.1	6001			SAUCELITO IRRIGATION DISTRICT			
		2-26-59	35.1	251.4	6001			22S/26E-15J01 M	372.5	10-04-58	6001
21S/26E-10H01 M	360.1	11-16-58	43.2	316.9	6001					2-06-59	127.1
		2-26-59	38.5	321.6	6001			22S/27E-32A01 M	437.7	10-03-58	6001
22S/23E-15R01 M	206.5	11-19-58	70.5	136.0	6001					2-12-59	6001
		2-19-59	69.0	137.5	6001			23S/26E-02R01 M	397.0	10-08-58	6001
22S/24E-15A01 M	251.5	7-09-58	121.1	130.4	6001			PIXLEY IRRIGATION DISTRICT			
		8-13-58	112.4*	139.1	6001			23S/23E-02B01 M	208.2	10-01-58	6001
		9-11-58	118.0	133.5	6001					2-09-59	36.8
		10-13-58	103.7	147.8	6001					2-18-59	31.2
					6001			23S/24E-05A01 M	226.3	10-10-58	5050
					6001					2-10-59	6001
					6001			23S/25E-14C01 M	301.5	7-28-58	6001
					6001					8-25-58	127.6

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
PIXLEY IRRIGATION DISTRICT						DELANO-EARLIMART IRRIG DIST					
5-22.33						5-22.35					
23S/25E-14C01 M CONT.	301.5	10-03-58	115.1	186.4	6001	23S/27E-28J01 M	531.3	2-09-59	313.3	218.0	6001
		10-27-58	109.6	191.9							
		11-24-58	107.0	194.5				10-07-58	135.0	169.5	6001
		1-07-59	104.1	197.4				2-02-59	127.0	177.5	
		1-26-59	102.3	199.2				9-29-58	99.2	194.9	5050
		2-11-59	103.6	197.9				2-10-59	90.4	203.7	
		2-24-59	102.5	199.0				10-06-58	195.0	181.0	6001
		3-23-59	106.7	194.8				2-03-59	187.0	189.0	
		4-27-59	105.7	195.8				2-17-59	186.6	189.4	
		5-25-59	105.6	195.9				10-02-58	178.0	201.0	6001
		6-23-59	108.4*	193.1				2-04-59	168.0	211.0	
23S/25E-17Q03 M	270.0	7-28-58	123.0	147.0	5000	24S/26E-20H01 M	379.0	2-18-59	168.3	210.7	
		8-26-58	122.6	147.4				2-18-59	178.8	221.1	6613
		9-23-58	119.4	150.6				7-31-58	158.4	241.6	5000
		10-22-58	115.8	154.2				8-29-58	155.8	244.2	
		11-17-58	113.7	156.3				10-01-58	153.0	247.0	
		12-15-58	111.6	158.4				10-31-58	153.1	246.9	
		1-20-59	109.5	160.5				12-02-58	150.7	249.3	
		2-10-59	109.2	160.8				1-30-59	148.1	251.0	
		3-09-59	109.3	160.7				2-27-59	150.8	251.9	
		4-06-59	113.0	157.0				3-30-59	150.4	249.2	
		5-04-59	112.4	157.6				4-30-59	157.1	242.9	
		6-24-59	116.7	153.3				6-01-59	165.5	234.5	
								6-30-59	170.4	229.6	
ALPAUGH-AlLENSWORTH AREA											
5-22.34						5-22.35					
23S/24E-36A01 M	247.0	10-01-58	92.4	154.6	6001	24S/26E-32G01 M	397.5	10-01-58	140.0	257.5	6001
		2-10-59	90.9	156.1				2-05-59	142.0	255.5	
		2-20-59	84.0	163.0				2-18-59	143.4	254.1	
24S/23E-21B02 M	206.0	9-30-58	42.5	163.5	6001	24S/26E-34F01 M	446.0	7-29-58	271.0	175.0	5000
		10-30-58	69.6	136.4				8-26-58	272.6	173.4	
		2-09-59	52.1	153.9				9-23-58	270.3	175.7	
		2-18-59	52.1	153.9				10-21-58	263.4	182.6	
24S/24E-23Q01 M	236.0	9-29-58	42.5	193.5	6001			11-17-58	257.8	188.2	
		2-10-59	31.7	204.3				1-21-59	251.2	194.8	
		2-20-59	44.4	191.6				2-10-59	254.1	191.9	
								3-09-59	253.0	193.0	
								4-06-59	258.3	187.7	
								5-04-59	268.4	177.6	
								6-23-59	287.9	158.1	
DELANO-EARLIMART IRRIG DIST											
23S/25E-27J02 M	296.0	10-06-58	112.0	184.0	6001	24S/27E-10E01 M	545.5	9-30-58	178.5	367.0	6001
		2-02-59	106.0	190.0				2-10-59	178.6	366.9	
		2-17-59	106.4	189.6				2-20-59	179.9	365.6	
23S/26E-29P01 M	357.0	10-06-58	197.0	160.0	6001						
		2-03-59	192.0	165.0							
23S/27E-28J01 M	531.3	9-30-58	361.8	169.5	6001						

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
DELANO-EARLMART IRRIG DIST						NORTH KERN WATER STORAGE DIST					
24S/27E-31P01 M	527.0	10-01-58	404.1	122.9	6001	26S/25E-15R01 M	354.7	1-16-59	154.0	200.7	1700
		2-10-59	□			CONT.		2-03-59	158.0	196.7	
		2-23-59	382.5	144.5				2-16-59	153.0	201.7	
25S/26E-01A02 M	505.5	9-29-58	373.0	132.5	5000			3-02-59	155.0	199.7	
		2-13-59	354.0	151.5				5-07-59	□		
								6-15-59	247.0	107.7	
25S/26E-10B03 M	430.5	9-29-58	256.0	174.5	6001	26S/25E-31R01 M	337.5	8-07-58	222.0	115.5	1700
		2-13-59	247.0	183.5				8-18-58	223.0	114.5	
25S/27E-22H01 M	751.0	11-13-58	375.9	375.1	6001			9-02-58	245.0*	92.5	
		2-10-59	□					12-16-58	143.0	194.5	
		2-16-59	372.5	378.5				1-01-59	149.0	188.5	
SOUTH SAN JOAQUIN MUD											
25S/25E-06H01 M	259.0	10-01-58	76.0	183.0	6001			1-16-59	148.0	189.5	
		3-13-59	76.0	183.0				2-03-59	152.7	184.8	
25S/25E-35P01 M	322.4	10-07-58	143.5	178.9	1700			2-16-59	196.0*	141.5	
								3-02-59	190.0*	147.5	
25S/26E-28H02 M	415.0	10-02-58	213.5	201.5	6001	26S/26E-30P01 M	393.0	7-16-58	267.0*	126.0	1700
		3-16-59	207.8	207.2				8-07-58	277.0*	116.0	
26S/26E-10R01 M	504.0	7-31-58	362.2	141.8	5000			8-18-58	267.0*	126.0	
		8-29-58	365.2	138.8				9-02-58	278.0*	115.0	
		10-01-58	354.7	149.3				12-15-58	197.0	196.0	
		10-31-58	351.7	152.3				1-05-59	195.0	198.0	
		12-02-58	348.2	155.8				1-16-59	246.0*	147.0	
		12-30-58	347.6	156.4				2-03-59	247.0*	146.0	
		1-29-59	345.9	158.1				2-16-59	247.0*	146.0	
		3-02-59	347.5	156.5				3-02-59	195.0	198.0	
		3-31-59	353.5	150.5				6-15-59	□		
		5-01-59	356.0	148.0				10-09-58	48.7	353.3	6001
		6-02-59	357.5	146.5				10-03-58	175.6	158.7	1700
		6-30-59	365.7	138.3				27S/25E-01A01 M	402.0		
26S/26E-16P01 M	443.2	10-03-58	297.7	145.5	1700	27S/25E-06F01 M	334.3	10-03-58	175.6		
		1-28-59	287.0	156.2				27S/26E-06H02 M	416.0		
		2-23-59	285.2	158.0						261.1	6001
		3-16-59	289.7	153.5				2-05-59	117.4	298.6	
								2-18-59	180.0	236.0	
NORTH KERN WATER STORAGE DIST											
26S/25E-15R01 M	354.7	7-16-58	209.0	145.7	1700	27S/26E-20E01 M	437.1	7-25-58	275.0*	162.1	1700
		8-07-58	213.0	141.7				8-15-58	281.0*	156.1	
		8-18-58	213.0	141.7				8-25-58	253.0	184.1	
		9-02-58	209.0	145.7				9-09-58	269.0*	168.1	
		12-15-58	155.0	199.7				12-23-58	235.0	202.1	
		1-05-59	157.0	197.7				1-14-59	253.0*	184.1	
								1-23-59	251.0*	186.1	
								2-09-59	250.0*	187.1	
								2-20-59	228.0	209.1	
								3-05-59	232.0	205.1	

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CENTRAL VALLEY REGION												
NORTH KERN WATER STORAGE DIST												
			5-22-37									
27S/27E-30H02 M	528.0	10-09-58	383.1	144.9	6001	28S/26E-29L01 M	349.9	2-20-59	118.0*	231.9	1700	
		2-05-59	296.6*	231.4		CONT.		3-06-59	120.0*	229.9		
28S/25E-13L01 M	362.0	9-02-58	□	220.0	1700	29S/25E-12M01 M	331.6	6-24-59	□			
		1-23-59	142.0	209.0				11-07-58	108.5	223.1	1700	
		2-09-59	153.0	209.0				2-04-59	104.0	227.6		
		2-20-59	153.0	209.0				11-07-58	64.9	247.9	1700	
		3-06-59	153.0	209.0		29S/25E-33J01 M	312.8	2-04-59	□			
		6-09-59	□					11-07-58	91.4	259.6	6001	
		6-24-59	□			29S/26E-10L01 M	351.0	2-04-59	□	268.0		
28S/26E-22L01 M	395.9	9-25-58	151.5	244.4	1700			1-28-59	87.8	263.2		
28S/27E-21F01 M	615.0	9-24-58	454.2	160.8	6001	29S/27E-04J01 M	448.8	1-28-59	□		1700	
		2-06-59	452.9	162.1				1-28-59	19.0	379.3	1700	
SHAFTER-WASCO IRRIGATION DIST												
			5-22-38									
27S/24E-35C01 M	317.2	7-03-58	208.0*	109.2	1700	30S/24E-24Q01 M	296.0	9-25-58	33.5	262.5	6001	
		7-28-58	195.0	122.2				2-05-59	34.1	261.9		
		7-29-58	206.0*	111.2		30S/25E-03H01 M	320.6	7-18-58	62.0	258.6	1700	
		8-13-58	201.0	116.2				8-07-58	62.0	258.6		
		8-20-58	203.0*	114.2				8-21-58	62.0	258.6		
		9-04-58	194.0	123.2				9-08-58	60.0	260.6		
		12-17-58	155.0	162.2				12-18-58	55.0	265.6		
		1-13-59	153.0	164.2				1-07-59	52.0	268.6		
		1-21-59	152.0	165.2				1-21-59	54.0	266.6		
		2-05-59	157.0	160.2				2-06-59	58.0	262.6		
		2-18-59	154.0	163.2				2-19-59	55.0	265.6		
		3-04-59	158.0	159.2				3-03-59	86.0*	234.6		
		6-17-59	204.0	113.2				6-19-59	□			
27S/25E-28F01 M	370.2	10-03-58	185.2	185.0	1700	30S/25E-21L01 M	305.7	7-01-58	38.0	267.7	1700	
28S/24E-01R01 M	329.0	10-02-58	167.0	162.0	1700			8-01-58	37.3	268.4		
		2-13-59	135.8	193.2				9-01-58	34.6	271.1		
KERN RIVER DELTA AREA												
			5-22-40									
28S/25E-34J01 M	329.0	10-07-58	118.2	210.8	1700	30S/26E-16J01 M	340.1	10-01-58	32.6	273.1		
		2-16-59	130.9	198.1				11-01-58	33.8	271.9		
28S/26E-29L01 M	349.9	7-16-58	131.0*	218.9	1700			12-01-58	31.9	273.8		
		8-01-58	117.0	232.9				2-09-59	31.4	274.3		
		8-18-58	116.0	233.9				9-23-58	□		1700	
		9-03-58	116.5	233.4				2-03-59	25.0	315.1		
		12-15-58	105.0	244.9				2-29-59	27.1	313.0		
		1-07-59	120.0*	229.9				7-08-58	40.5	299.5	1700	
		1-23-59	104.0	245.9				9-09-58	□			
		2-09-59	104.0	245.9				12-22-58	34.0	306.0		
								1-12-59	33.0	307.0		

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CENTRAL VALLEY REGION											
KERN RIVER DELTA AREA											
30S/26E-27A01 M	340.0	1-22-59	50.0*	290.0	1700	31S/28E-17P02 M	321.5	2-03-59	18.2	303.3	1700
CONT.		2-05-59	34.0	306.0							
		2-18-59	34.0	306.0		31S/28E-30M01 M	314.7	9-10-58	52.0	262.7	1700
		3-04-59	37.0	303.0				2-10-59	31.0	283.7	
		5-22-59	65.0*	275.0				2-20-59	37.0	277.7	
		6-22-59	□					3-05-59	46.0	268.7	
								3-27-59	□		
								5-18-59	□		
30S/27E-03G01 M	385.0	7-21-58	63.0	322.0	1700						
		8-08-58	62.0	323.0							
		8-21-58	59.5	325.5		32S/26E-36G01 M	378.8	9-26-58	166.0	212.8	1700
		9-08-58	58.5	326.5				12-03-58	166.7	212.1	
		2-05-59	58.0	327.0				2-02-59	168.2	210.6	
		2-18-59	60.0	325.0							
		3-04-59	62.0	323.0		32S/27E-02B02 M	299.5	2-02-59	□		6001
		6-23-59	73.0	312.0							
30S/27E-28A02 M	359.9	9-22-58	66.7	293.2	6001	32S/27E-18E01 M	294.3	7-22-58	192.0	102.3	1700
		2-03-59	62.8	297.1				8-12-58	193.0*	101.3	
30S/28E-32B01 M	354.4	9-26-58	82.1	272.3	1700			8-25-58	182.0*	112.3	
		12-03-58	81.7	272.7				9-10-58	161.0	133.3	
		1-30-59	76.0	278.4				12-04-58	□		
		2-04-59	□					2-10-59	□		
31S/25E-25A02 M	285.0	9-25-58	□		6001	32S/28E-04A01 M	304.1	2-24-59	95.0	199.3	
		2-03-59	□					3-05-59	95.0	199.3	
31S/26E-01A01 M	333.1	11-06-58	45.9	287.2	1700			6-30-59	□		1700
31S/26E-35D01 M	295.3	2-02-59	□		1700			9-24-58	□		
31S/27E-04L01 M	341.5	8-22-58	75.0	266.5	1700			12-03-58	□		
		9-09-58	74.5	267.0				1-30-59	21.5	282.6	
		12-23-58	60.0	281.5				2-02-59	30.4	273.7	
		1-13-59	61.0	280.5							
		1-22-59	61.0	280.5							
		2-06-59	60.0	281.5							
		2-20-59	□								
		3-05-59	66.0	275.5							
		5-21-59	□								
		6-23-59	□								
31S/27E-28J01 M	312.6	9-24-58	38.4	274.2	6001						
		12-03-58	39.1	273.5							
		1-30-59	36.0	276.6							
		2-02-59	37.6	275.0							
31S/28E-17P02 M	321.5	9-26-58	15.0	306.5	1700						
		12-03-58	□								
		1-30-59	15.0	306.5							

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CENTRAL VALLEY REGION											
EDISON-MARICOPA AREA											
11N/20W-07Q01 S	454.4	10-15-58	324.0	130.4	1700	12N/22W-31E01 S	497.0	12-03-58	276.8	222.2	5000
CONT.		12-05-58	□			12N/22W-36R01 S	495.0	12-04-58	428.2	66.8	5000
		1-26-59	□			12N/23W-28P01 S	499.0	9-30-58	□		5000
		3-12-59	443.0*	11.4		29S/28E-26J01 M	535.0	9-25-58	DRY		5050
11N/20W-18F01 S	486.2	9-28-58	□	161.1	1700	2-05-59	DRY				
		12-05-58	325.1	152.2		29S/29E-33N01 M	578.0	9-23-58	403.8	174.2	5000
		2-02-59	334.0			12-06-58	400.8	12-02-59	□	177.2	
11N/20W-24A01 S	731.6	8-13-58	480.0	251.6	1700	30S/28E-02R01 M	411.0	9-23-58	□		6001
		9-11-58	465.5	266.1		2-05-59	156.1	2-05-59	156.1	254.9	
		10-15-58	465.0	266.6		30S/28E-34R02 M	360.0	12-03-58	96.1	263.9	5000
		2-12-59	□			30S/29E-05F01 M	517.0	9-24-58	315.0	202.0	5050
11N/21W-05M01 S	516.8	9-12-58	434.0	82.8	1700	12-08-58	311.6*	2-05-59	305.5	211.5	
		10-16-58	433.0	83.8		30S/29E-26A01 M	625.0	11-07-58	□		5050
		2-12-59	□			2-03-59	□	2-03-59	□		
11N/21W-14D02 S	576.0	2-25-59	□			30S/30E-20R01 M	793.0	11-07-58	182.7	610.3	5050
		3-10-59	□			12-04-58	173.4	12-04-58	173.4	619.6	
		3-26-59	□			31S/29E-09A01 M	473.5	12-02-58	255.8	217.7	5050
		6-12-59	□			2-03-59	□	2-03-59	□		
		6-30-59	□			31S/29E-29A01 M	400.5	9-30-58	□		5050
11N/22W-04H01 S	529.7	9-30-58	450.4	125.6	1700	12-04-58	128.5	12-04-58	128.5	272.0	
		12-05-58	DRY			2-04-59	143.0	2-04-59	143.0	257.5	
		2-02-59	468.0	108.0		31S/30E-09R01 M	621.5	2-04-59	□		5050
11N/23W-12P01 S	739.0	9-30-58	476.7	262.3	5000	31S/30E-21G01 M	537.0	11-07-58	□		5050
		12-04-58	371.1	367.9		12-04-58	326.3	12-04-58	326.3	210.7	
12N/19W-32E01 S	501.8	9-26-58	221.4	280.4	5000	32S/25E-35N02 M	442.5	9-25-58	157.1	285.4	5000
		2-02-59	239.4	262.4		12-03-58	157.6	12-03-58	157.6	284.9	
12N/20W-31R01 S	364.0	7-29-58	254.7	109.3	6001	2-04-59	158.0	2-04-59	158.0	284.5	
		8-26-58	255.0	109.0		32S/28E-23R01 M	387.7	9-24-58	□		1700
		9-22-58	222.8	141.2		32S/29E-07P01 M	382.0	8-04-58	203.0	179.0	1700
		10-29-58	210.5	153.5		11-07-58	□	11-07-58	□		
		11-25-58	206.7	157.3		12-07-58	212.8	12-07-58	212.8	169.2	
		1-08-59	213.0	151.0							
		1-27-59	228.6	135.4							
		2-25-59	247.6	116.4							
		3-24-59	245.3	118.7							
		4-28-59	246.8	117.2							
12N/21W-29N01 S	423.3	12-03-58	□		1700						
12N/22W-31E01 S	497.0	11-06-58	276.6	222.4	5000						

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CENTRAL VALLEY REGION											
EDISON-MARICOPA AREA											
BUENA VISTA WATER STORAGE DIST											
32S/29E-21P01 M	473.0	7-29-58	207.0	266.0	6001	26S/22E-32R01 M	238.6	6-05-59	63.1	175.5	4640
		8-26-58	211.1	261.9							
		9-25-58	209.0	264.0		28S/22E-10D02 M	245.0	10-02-58	14.0	231.0	6001
		10-29-58	206.5	266.5				2-05-59	18.1	226.9	
		11-25-58	207.2	265.8				2-25-59	22.1	222.9	
		1-08-59	206.9	266.1		28S/22E-36P01 M	253.7	10-06-58	15.4	238.3	4640
		1-27-59	206.2	266.8				2-07-59	24.9	228.8	
		2-03-59	205.9	267.1				5-29-59	31.6	222.1	
		2-25-59	206.2	266.8				6-04-59	□		
		3-24-59	206.1	266.9							
		4-29-59	206.5	266.5		28S/23E-31R01 M	258.6	7-01-58	23.8	234.8	4640
		5-26-59	204.8	268.2				8-10-58	25.2	233.4	
		6-24-59	207.4	265.6				9-04-58	19.5	239.1	
BUENA VISTA WATER STORAGE DIST											
25S/22E-02E01 M	212.5	10-13-58	74.1	138.4	5000			10-06-58	19.2	239.4	
		10-29-58	73.5	139.0				11-07-58	17.5	241.1	
		10-30-58	73.6	138.9				12-06-58	17.8	240.8	
		12-01-58	71.0	141.5				1-05-59	20.6	238.0	
		12-29-58	67.7	144.8				2-07-59	□		
		1-30-59	65.8	146.7				3-06-59	□		
		2-27-59	64.9	147.6				4-06-59	36.3	222.3	
		3-31-59	67.5	145.0				5-06-59	34.6	224.0	
		4-30-59	69.1	143.4		29S/23E-08A01 M	260.3	6-04-59	□		
		6-02-59	69.3	143.2							
		6-30-59	72.7	139.8				7-07-58	25.3	235.0	4640
25S/22E-02N02 M	212.6	10-13-58	44.0	168.6	5000			8-10-58	24.6	235.7	
		10-30-58	43.7	168.9				9-04-58	21.9	238.4	
		12-01-58	42.5	170.1				10-06-58	20.9	239.4	
		12-29-58	41.0	171.6				11-07-58	23.4	236.9	
		1-30-59	40.1	172.5				12-06-58	24.5	235.8	
		2-27-59	39.3	173.3				1-05-59	26.7	233.6	
		3-31-59	40.0	172.6				2-07-59	28.2	232.1	
		4-30-59	41.6	171.0				3-06-59	□		
		6-01-59	40.1	172.5				4-06-59	35.6	224.7	
		6-30-59	40.9	171.7		29S/23E-36R01 M	277.0	5-06-59	37.6	222.7	
								6-04-59	53.0	207.3	
26S/22E-32R01 M	238.6	7-01-58	47.0	191.6	4640			9-24-58	29.0	248.0	6001
		8-10-58	42.1	196.5				2-05-59	33.0	244.0	
		9-04-58	46.8	191.8							
		10-06-58	45.0	193.6				7-07-58	38.8	242.5	4640
		11-07-58	42.6	196.0				8-10-58	37.8	243.5	
		12-06-58	43.0	195.6				9-04-58	35.0	246.3	
		1-05-59	45.9	192.7				10-06-58	30.5	250.8	
		2-07-59	49.2	189.4				11-07-58	30.2	251.1	
		3-06-59	76.5	162.1				12-06-58	29.9	251.4	
		4-06-59	54.8	183.8				1-05-59	□		
		5-06-59	62.7	175.9				2-07-59	41.8	239.5	
								3-06-59	55.4	225.9	
								4-06-59	38.5	242.8	

GROUND WATER LEVELS AT WELLS

State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data	State Well Number	R.P. Elev., in feet	Date	Dist. R.P. to Water Surface, in feet	Water Surface Elev., in feet	Agency Supplying Data
CENTRAL VALLEY REGION											
AVENAL-MCKITTRICK AREA											
22S/19E-30A01 M	267.0	10-24-58 3-31-59	169.0 168.0	98.0 99.0	6001	25S/20E-35B01 M	290.0	4-01-59	□		5001
23S/18E-29E01 M	560.0	10-22-58 3-31-59	134.5 133.9	425.5 426.1	5001	25S/21E-22H01 M	217.0	10-29-58	□		5000
23S/18E-29E02 M	561.0	10-21-58	134.7	426.3	5000	25S/21E-30M01 M	247.0	10-22-58	40.4	206.6	5000
23S/19E-14R01 M	236.0	10-24-58	43.4	192.6	6001	26S/17E-13L02 M	910.5	10-23-58 3-31-59	168.4 141.5	742.1 769.0	5001
23S/19E-26M01 M	266.0	4-01-59	74.6	191.4	6001	26S/18E-16H01 M	685.0	10-23-58 3-31-59	160.7 161.2	524.3 523.8	5001
24S/17E-23A01 M	741.0	10-22-58 3-31-59	□ DRY		5001	26S/18E-19B02 M	875.0	10-23-58 3-31-59	153.4 158.7	721.6 716.3	5001
24S/17E-35B02 M	756.0	10-22-58 3-31-59	94.6 95.1	661.4 660.9	5001	26S/18E-27F01 M	731.0	10-23-58 4-01-59	□ 204.5	526.5	5001
24S/18E-11D01 M	470.0	10-21-58 4-01-59	39.5 40.3	430.5 429.7	5001	26S/19E-12L01 M	530.0	10-24-58 4-01-59	□ 201.0	329.0	5001
24S/18E-30D01 M	700.0	10-22-58 3-31-59	□ □		5001	26S/21E-06F03 M	263.0	10-21-58 4-01-59	52.8 52.6	210.2 210.4	5001
24S/18E-33N01 M	627.0	10-22-58 3-31-59	□ □		5001	27S/18E-15R01 M	1220.0	10-23-58	41.5	1178.5	5050
24S/19E-02L01 M	300.0	10-24-58 3-31-59	81.8 83.1	218.2 216.9	5001	TULARE LAKE LOST HILLS AREA					
24S/19E-12E01 M	293.0	10-24-58	□		5050	21S/19E-33N01 M	191.0	5-06-58 10-28-58 5-07-59	197.4 □ 203.8	- 6.4 - 12.8	5000
24S/19E-30N01 M	485.0	10-24-58	□		5050	24S/22E-36R01 M	211.5	11-14-58	60.6	150.9	5050
25S/19E-15G01 M	426.0	10-24-58	109.0	317.0	5001	26S/21E-14J01 M	238.0	10-29-58	13.5	224.5	5000
25S/19E-20O02 M	481.4	4-01-59	109.7	316.3	5001	CORCORAN IRRIGATION DISTRICT					
25S/19E-25B01 M	410.0	10-23-58 4-01-59	126.9 127.0	354.5 354.4	5001	21S/22E-16Q01 M	196.5	10-14-58 2-19-59	22.2 20.7	174.3 175.8	5050
25S/20E-04C01 M	268.0	10-22-58 4-01-59	95.2 71.5*	314.8 196.5	5001	21S/22E-24K01 M	209.0	10-14-58 2-19-59	38.7 41.0*	170.3 168.0	5050
25S/20E-15Q01 M	290.0	10-23-58 4-01-59	79.2 □	210.8	5001	MENDOTA-HURON AREA					
25S/20E-35B01 M	290.0	10-22-58	□		5001	14S/13E-15W01 M	322.0	5-05-58 10-22-58	423.9 □	- 101.9	5000
						14S/13E-26N01 M	330.0	10-22-58	□		5000

GROUND WATER LEVELS AT WELLS

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CENTRAL VALLEY REGION											
MENDOTA-HURON AREA						MENDOTA-HURON AREA					
			5-22.47						5-22.47		
14S/13E-26N01 M CONT.	330.0	10-24-58	369.0	- 39.0	5000	14S/14E-28E02 M CONT.	261.4	4-30-59	63.6	197.8	6001
		11-21-58	376.0	- 46.0				5-28-59	63.5	197.9	
		12-17-58	390.3	- 60.3				6-25-59	63.8	197.6	
		1-14-59	395.0	- 65.0							
		2-12-59	393.3	- 63.3							
		3-11-59	389.1	- 59.1		14S/15E-18E02 M	180.5	3-06-59	68.1	112.4	5000
		4-08-59	392.3	- 62.3				5-07-59	179.5	1.0	
		5-00-59	□								
		5-06-59	390.0	- 60.0		14S/15E-35N01 M	162.0	10-16-58	50.6	111.4	5000
		6-00-59	□					3-05-59	45.8	116.2	
								5-07-59	49.6	112.4	
14S/13E-28P01 M	365.5	10-24-58	399.0	- 33.5	5000	15S/13E-14N01 M	431.0	5-07-58	451.6	- 20.6	5000
		11-21-58	398.7	- 33.2				10-21-58	519.0	- 88.0	
		12-17-58	401.4	- 35.9				5-06-59	486.1	- 55.1	
		1-14-59	404.2	- 38.7							
		2-12-59	405.7	- 40.2		15S/13E-26N01 M	473.0	10-21-58	□		5000
		3-11-59	407.3	- 41.8				5-06-59	688.0	- 215.0	
		4-08-59	408.1	- 42.6				10-17-59	□		
		5-00-59	□								
		5-05-59	404.1	- 38.6		15S/14E-06D01 M	294.0	10-21-58	□		5000
		6-00-59	□								
14S/13E-29Q01 M	378.0	10-22-58	542.0	- 164.0	5000	15S/14E-07B02 M	283.0	7-31-58	244.4	38.6	6001
								8-26-58	246.9	36.1	
14S/14E-05H01 M	230.0	10-21-58	□	140.4	5000			10-10-58	243.5	39.5	
		10-24-58	89.6	142.2				10-31-58	241.1	41.9	
		11-21-58	87.8	143.7				11-28-58	240.2	42.8	
		12-17-58	86.3	144.4				1-05-59	240.5	42.5	
		1-14-59	85.6	144.4				1-29-59	239.7	43.3	
		2-12-59	85.7	144.3				2-27-59	239.0	44.0	
		3-11-59	84.6	145.4				3-25-59	240.2	42.8	
		4-08-59	86.9	143.1				4-30-59	238.3	44.7	
		5-01-59	88.5	141.5				5-28-59	237.9	45.1	
		6-24-59	91.7	138.3				6-25-59	240.4	42.6	
14S/14E-17Q01 M	254.0	10-22-58	316.0	- 62.0	5000	15S/14E-11E01 M	223.0	10-21-58	203.7	19.3	5000
								5-07-59	210.0	13.0	
14S/14E-25M01 M	208.7	3-03-58	119.6	89.1	5000	15S/15E-19N01 M	199.0	5-08-58	120.7	78.3	5000
		10-21-58	120.9	87.8				10-21-58	□		
		3-06-59	118.9	89.8							
14S/14E-28E02 M	261.4	7-31-58	81.4	180.0	6001	15S/15E-22Q01 M	175.5	10-15-58	103.6	71.9	6001
		8-26-58	81.8	179.6				3-04-59	89.1	86.4	
		10-10-58	68.3	193.1							
		10-31-58	67.0	194.4				10-20-58	□		5000
		11-28-58	65.7	195.7							
		1-06-59	64.4	197.0				10-16-58	61.7	110.8	6001
		1-29-59	63.7	197.7				3-10-59	57.1	115.4	
		2-27-59	63.0	198.4							
		3-25-59	63.3	198.1				10-17-58	164.9	11.3	6001
								10-23-58	165.3	10.9	

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CENTRAL VALLEY REGION											
MENDOTA-HURON AREA											
15S/16E-34E01 M	176.2	11-21-58	165.9	10.3	6001	17S/16E-27Q01 M	256.0	5-05-59	276.0	-	5000
CONT.		12-16-58	164.0	12.2		17S/17E-08B02 M	204.0	10-21-58	28.7	175.3	5000
		1-13-59	162.5	13.7		17S/17E-21N02 M	231.0	10-21-58	253.0*	-	5000
		2-11-59	162.0	14.2		17S/17E-26E03 M	228.0	10-21-58	240.0*	-	5000
		3-09-59	163.0	13.2				5-06-59	205.6	22.4	
		3-11-59	163.2	13.0		18S/15E-13N01 M	451.0	10-21-58	□		5000
		4-07-59	166.7	9.5		18S/16E-07N01 M	366.0	10-21-58	□	208.4	5000
		5-29-59	169.1	7.1		18S/16E-22Q01 M	297.0	10-22-58	362.5	-	5000
		6-25-59	173.8	2.4		18S/16E-26F01 M	305.0	5-08-59	335.5	-	5000
16S/14E-03E01 M	287.0	10-22-58	345.3	-	5000	18S/17E-08R01 M	274.0	10-22-58	□	-	5000
		5-08-59	316.4	-	29.4	18S/17E-12N01 M	258.0	5-05-59	387.0	-	5000
16S/14E-11B01 M	297.0	10-22-58	346.8	-	49.8	18S/17E-29N01 M	316.0	10-22-58	412.7	-	5000
		5-08-59	315.4	-	18.4	18S/18E-07N01 M	253.5	5-05-59	468.6	-	5000
16S/15E-02N02 M	224.2	5-28-59	99.2*	125.0	5001	18S/18E-24Q01 M	239.0	10-22-58	232.5	21.0	5000
		6-25-59	109.7*	114.5		18S/18E-30N01 M	277.0	5-08-59	236.4	17.1	5000
16S/15E-08Q01 M	266.0	10-22-58	□		5000	18S/18E-31P01 M	284.0	10-23-58	178.0	106.0	5000
16S/16E-18N01 M	240.0	5-07-58	136.5	103.5	5000			11-21-58	175.5	108.5	5000
16S/16E-28M01 M	238.0	5-08-58	155.4	82.6	5000			12-16-58	172.5	111.5	5000
		5-06-59	172.9	65.1				1-13-59	170.8	113.2	5000
17S/14E-13R01 M	457.0	10-23-58	□		5000			2-11-59	□		5000
17S/15E-14E01 M	352.0	10-23-58	□		5000			3-11-59	173.7	110.3	5000
17S/15E-27K01 M	407.0	10-23-58	532.3	-	125.3			4-07-59	177.9	106.1	5000
		5-06-59	532.8	-	125.8			5-30-59	178.6	105.4	5000
17S/16E-02E01 M	219.0	10-21-58	□		5000			6-25-59	181.3	102.7	5000
		3-03-59	174.0	45.0				10-24-58	□		5000
		5-05-59	188.4	30.6		19S/16E-13N01 M	279.0	5-07-59	455.2	-	5000
17S/16E-24R01 M	238.5	7-31-58	192.7	45.8	6001						
		8-25-58	194.8	43.7							
		10-09-58	185.1	53.4							
		10-30-58	174.6	63.9							
		11-28-58	167.0	71.5							
		1-06-59	173.1	65.4							
		1-29-59	169.7	68.8							
		2-27-59	173.1	65.4							
		3-25-59	186.6	51.9							
		4-30-59	192.0*	46.5							
		5-28-59	190.4*	48.1							
		6-25-59	198.0*	40.5							
17S/16E-27Q01 M	256.0	10-21-58	293.0	-	37.0						

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CENTRAL VALLEY REGION											
MENDOTA-HURON AREA											
19S/16E-35Q01 M	424.5	10-24-58	□	- 44.7	5000	20S/15E-32A01 M	676.0	10-24-58	195.0	481.0	5000
		5-06-59	469.2			CONT.		11-21-58	195.2	480.8	
19S/17E-09N01 M	343.0	10-24-58	□	- 141.1	5000			12-16-58	195.0	481.0	
		5-07-59	484.1					1-14-59	194.6	481.4	
19S/17E-21N01 M	370.0	5-09-58	315.7	54.3	5000			2-11-59	194.8	481.2	
		10-24-58	□					3-11-59	195.2	480.8	
19S/17E-35N01 M	368.5	10-23-58	452.3	- 83.8	5000	20S/16E-22J02 M	490.0	5-05-59	195.6	480.4	
		11-21-58	451.9	- 83.4				10-23-58	178.3	311.7	5000
		12-16-58	467.8	- 99.3				5-06-59	222.7	267.3	
		1-13-59	477.5	- 109.0				10-22-58	□	388.2	5000
		2-11-59	492.6	- 124.1				5-06-59	212.8		
		3-11-59	489.5	- 121.0				10-23-58	468.0*	- 123.0	5000
		4-07-59	480.1	- 111.6				10-24-58	□		5000
		5-30-59	469.0	- 100.5				10-23-58	416.0	- 132.0	5000
		6-24-59	493.6	- 125.1				5-08-59	388.2	- 104.2	
19S/18E-15M01 M	280.0	10-24-58	357.0	- 77.0	5000	20S/18E-11N01 M	284.0	10-23-58	272.0		5000
		5-11-59	363.3	- 83.3				7-29-58	368.7	- 96.7	
19S/18E-20N01 M	308.0	10-24-58	325.8	- 17.8	5000	20S/18E-11Q01 M	272.0	8-27-58	378.4	- 106.4	
		7-02-58	363.6	22.9	6001			9-24-58	374.2	- 102.2	
		7-30-58	381.6	4.9				10-23-58	378.0	- 106.0	
		8-25-58	385.5	1.0				11-21-58	337.2	- 65.2	
		10-08-58	378.5	8.0				12-16-58	358.0	- 86.0	
		10-30-58	365.7	20.8				1-13-59	357.4	- 85.4	
		11-28-58	353.9	32.6				2-11-59	369.9	- 97.9	
		1-05-59	359.8	26.7				3-10-59	360.6	- 88.6	
		1-29-59	372.9	13.6				4-07-59	359.4	- 87.4	
		2-27-59	388.7	2.2				5-28-59	365.2	- 93.2	
		3-24-59	378.6	7.9				6-25-59	380.8	- 108.8	
		4-29-59	375.4	11.1				10-23-58	□		5000
		5-28-59	383.1	3.4				5-09-59	296.6	44.4	
		6-25-59	396.0	9.5				7-30-58	265.5	- 5.0	6001
19S/18E-27N01 M	288.0	10-24-58	81.2	206.8	5000	20S/18E-36D01 M	260.5	8-25-58	269.2	- 8.7	
		10-24-58	381.1	- 83.1	5000			10-08-58	264.2	- 3.7	
19S/18E-33Q01 M	298.0	5-11-59	381.8	- 83.8				10-23-58	□		
20S/15E-17C01 M	807.0	10-22-58	□		5000			10-30-58	263.0	- 2.5	
20S/15E-25D01 M	620.0	10-21-58	163.1*	456.9	5000			11-28-58	260.4	0.1	
		5-04-59	160.7	459.3	5000			1-05-59	266.7	- 6.2	
20S/15E-32A01 M	676.0	7-21-58	196.5	479.5	5000			1-29-59	271.7	- 11.2	
		10-22-58	□					2-27-59	266.7	- 6.2	
								3-24-59	267.7	- 7.2	
								4-29-59	264.4	- 3.9	
								5-09-59	265.0	- 4.5	

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CENTRAL VALLEY REGION											
MENDOTA-HURON AREA											
20S/18E-36D01 M	260.5	5-28-59	267.3	6.8	6001	22S/27E-36N01 M	513.0	9-04-58	269.8	243.2	5000
CONT.		6-25-59	274.1	13.6		CONT.		10-01-58	262.4	250.6	
21S/15E-01E01 M	626.0	10-21-58	167.0	459.0	5000			10-31-58	254.1	258.9	
		5-08-59	169.6	456.4				12-02-58	242.9	270.1	
21S/15E-10C01 M	658.5	10-21-58	□		5000			12-31-58	236.1	276.9	
								1-30-59	226.1	286.9	
21S/16E-02N01 M	569.0	5-08-58	107.3	461.7	5000			3-02-59	219.7	293.3	
		10-22-58	128.0	441.0				3-30-59	251.8	261.2	
21S/16E-07N01 M	634.0	10-22-58	□		5000			5-01-59	247.4	265.6	
		5-08-59	185.7	448.3				6-01-59	255.0	258.0	
21S/16E-35D01 M	683.0	10-22-58	279.3	403.7	5000	23S/27E-10H01 M	518.0	6-30-59	264.1	248.9	
21S/17E-05M01 M	490.0	10-21-58	492.5	2.5	5000			10-01-58	230.1	287.9	6001
		5-12-59	509.3	19.3				2-10-59	213.4	304.6	
21S/17E-06N01 M	527.0	10-21-58	121.0	406.0	5000						
21S/17E-11E01 M	416.0	10-21-58	420.0*	4.0	5000						
		5-12-59	434.7	18.7							
21S/17E-24G01 M	425.0	10-22-58	441.0	16.0	5000						
21S/18E-02M01 M	288.0	10-23-58	354.5	66.5	5000						
21S/18E-28M02 M	361.5	7-30-58	298.0	63.5	6001						
		8-25-58	297.8	63.7							
		10-08-58	291.1	70.4							
		10-30-58	283.9	77.6							
		11-28-58	279.9	81.6							
		1-05-59	282.0	79.5							
		1-29-59	293.5	68.0							
		2-27-59	289.7	71.8							
		3-24-59	285.3	76.2							
		4-29-59	302.8*	58.7							
		5-28-59	305.0*	56.5							
		6-25-59	312.6*	48.9							
21S/18E-29N01 M	448.0	10-21-58	355.5	92.5	5000						
21S/19E-19C01 M	240.0	5-07-59	300.5	60.5	5000						
22S/16E-12F01 M	787.0	10-22-58	□		5050						
TERRA BELLA IRRIGATION DISTRICT											
22S/27E-36N01 M	513.0	8-06-58	257.3	255.7	5000						

APPENDIX C

PRIOR REPORTS CONTAINING
BASIC GROUND WATER DATA

PRIOR REPORTS CONTAINING
BASIC GROUND WATER DATA



This appendix lists prior reports, issued by the Department of Water Resources or by the U. S. Geological Survey in cooperation with the Department or with the U. S. Bureau of Reclamation, which contain basic ground water data, including water level measurements and well data for ground water basins of Central and Northern California.



California State Department of Engineering. "Water Resources of Kern River and Adjacent Streams and Their Utilization." Bulletin No. 9. 1920.

California State Department of Public Works, Division of Water Resources. "Water Resources of Tulare County and Their Utilization." Bulletin No. 3. 1922.

----. "Ground Water Resources of Southern San Joaquin Valley." Bulletin No. 11. 1927

----. "Sacramento River Basin." Bulletin No. 26. 1931.

----. "San Joaquin River Basin." Bulletin No. 29. 1931.

----. "Pit River Investigation." Bulletin No. 41. 1933.

----. "Santa Clara Investigation." Bulletin No. 42. 1933.

----. "Salinas Basin Investigation." Basic Data. Bulletin No. 52-A. 1941. Seven Supplements. 1948 - 1958.

----. "Northeastern Counties Investigation. Report on Upper Feather River Service Area." April, 1955.

----. "Report to the California State Legislature on Putah Creek Cone Investigation." December, 1955.

California State Department of Water Resources, Division of Resources Planning. "Lake County Investigation." Bulletin No. 14. July 1957.

California State Department of Water Resources, Division of Resources Planning. "Shasta County Investigation." Bulletin No. 22. December 1960.

----. "Northeastern Counties Investigation." Bulletin No. 58. December 1957.

----. "West Walker River Investigation." Bulletin No. 64. December 1957.

----. "Intrusion of Salt Water into Ground Water Basins of Southern Alameda County." Bulletin No. 81. December 1960.

----. "Upper Pit River Investigation." Bulletin No. 86. November 1960.

----. "Clear Lake-Cache Creek Basin Investigation." Bulletin No. 90. March 1961.

California State Water Resources Board. "Santa Cruz-Monterey Counties Investigation." Bulletin No. 5. August 1953.

----. "Sutter-Yuba Counties Investigation." Bulletin No. 6. September 1952.

----. "Santa Clara Valley Investigation." Bulletin No. 7. September 1951.

----. "Placer County Investigation." Bulletin No. 10. July 1954.

----. "San Joaquin County Investigation." Bulletin No. 11. April 1954. Four Supplements. 1954 - 1958.

----. "Alameda County Investigation." Bulletin No. 13. July 1955.

----. "American River Basin Investigation." Bulletin No. 21. June 1955.

United States Department of the Interior, Geological Survey, Ground Water Branch. "Geology and Ground Water Hydrology of the Mokelumne Area, California." Water Supply Paper 780. 1939.

----. "Ground Water of the Lower Lake-Middletown Area, Lake County, California." Water Supply Paper 1927. 1955.

----. "Geology and Ground Water Features of the Smith River Plain, Del Norte County, California." Water Supply Paper 1254. 1957.

----. "Ground Water Conditions in the Mendota-Huron Area, Fresno and Kings Counties, California." Water Supply Paper 1360-G. 1957.

United States Department of the Interior, Geological Survey, Ground Water Branch. "Geology and Ground Water Features of Scott Valley, Siskiyou County, California." Water Supply Paper 1462. 1958.

----. "Geology and Ground Water in the Santa Rosa and Petaluma Valley Areas, Sonoma County, California." Water Supply Paper 1427. 1958.

----. "Ground Water Conditions in the Avenal-McKittrick Area, Kings and Kern Counties, California." Water Supply Paper 1457. 1959.

----. "Ground Water Conditions and Storage Capacity in the San Joaquin Valley, California." Water Supply Paper 1469. 1959

----. "Geology and Ground Water Features of the Eureka Area, Humboldt County, California." Water Supply Paper 1470. 1959.

----. "Geology, Water Resources and Usable Ground Water Storage Capacity of Part of Solano County, California." Water Supply Paper 1464. 1960.

----. "Geology and Ground Water Features of Shasta Valley, Siskiyou County, California." Water Supply Paper 1484. 1960.

----. "Geology and Ground Water in Napa and Sonoma Valleys, Napa and Sonoma Counties, California." Water Supply Paper 1495. 1960.

----. "Geology and Ground Water Features of the Butte Valley Region, Siskiyou County, California." Typewritten Report. 1958. (in preparation as a Water Supply Paper).

----. "Geologic Features and Ground-Water Storage Capacity of Sacramento Valley, California." Duplicated Report. 1958.

----. "Geology and Ground-Water Resources of the Russian and Upper Eel River Valleys, Sonoma and Mendocino Counties, California." In preparation.

----. "Geology and Ground-Water Features of the Edison-Maricopa Area, Kern County, California." In preparation.

----. Water Supply Papers giving information on the water levels and artesian pressure in observation wells in California:

Water Supply Paper 468 contains measurements for 1920 and prior years, 777 for 1935, 817 for 1936, 840 for 1937, 845 for 1938, 886 for 1939, 911 for 1940, 941 for 1941, 949 for 1942, 991 for 1943, 1021 for 1944, 1028 for 1945, 1076 for 1946, 1101 for 1947, 1131 for 1948, 1161 for 1949, 1170 for 1950, 1196 for 1951, 1226 for 1952, 1270 for 1953, 1326 for 1954, and 1409 for 1955. 1956-1960 (in preparation as one volume for the five years).

APPENDIX D

CONTEMPORARY REPORTS OF
BASIC WATER RESOURCE DATA
ISSUED ANNUALLY BY THE
DEPARTMENT OF WATER RESOURCES

CONTEMPORARY REPORTS OF
BASIC WATER RESOURCE DATA
ISSUED ANNUALLY BY THE
DEPARTMENT OF WATER RESOURCES

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Reports issued annually by the Department of Water Resources, designed primarily to record basic hydrologic data and to present conditions of water supply directly related thereto, include the following: (The year indicated is that of the latest publication as of May 1959).

<u>Bulletin Series No.</u>	<u>Name</u>
23	Surface Water Flow. (Formerly Sacramento-San Joaquin Water Supervision)
39	Water Supply Conditions in Southern California.
65	Quality of Surface Waters in California.
66	Quality of Ground Waters in California.
77	Ground Water Conditions in Central and Northern California.
—	Water Conditions in California. (Published in February, March, April, and May of each year).



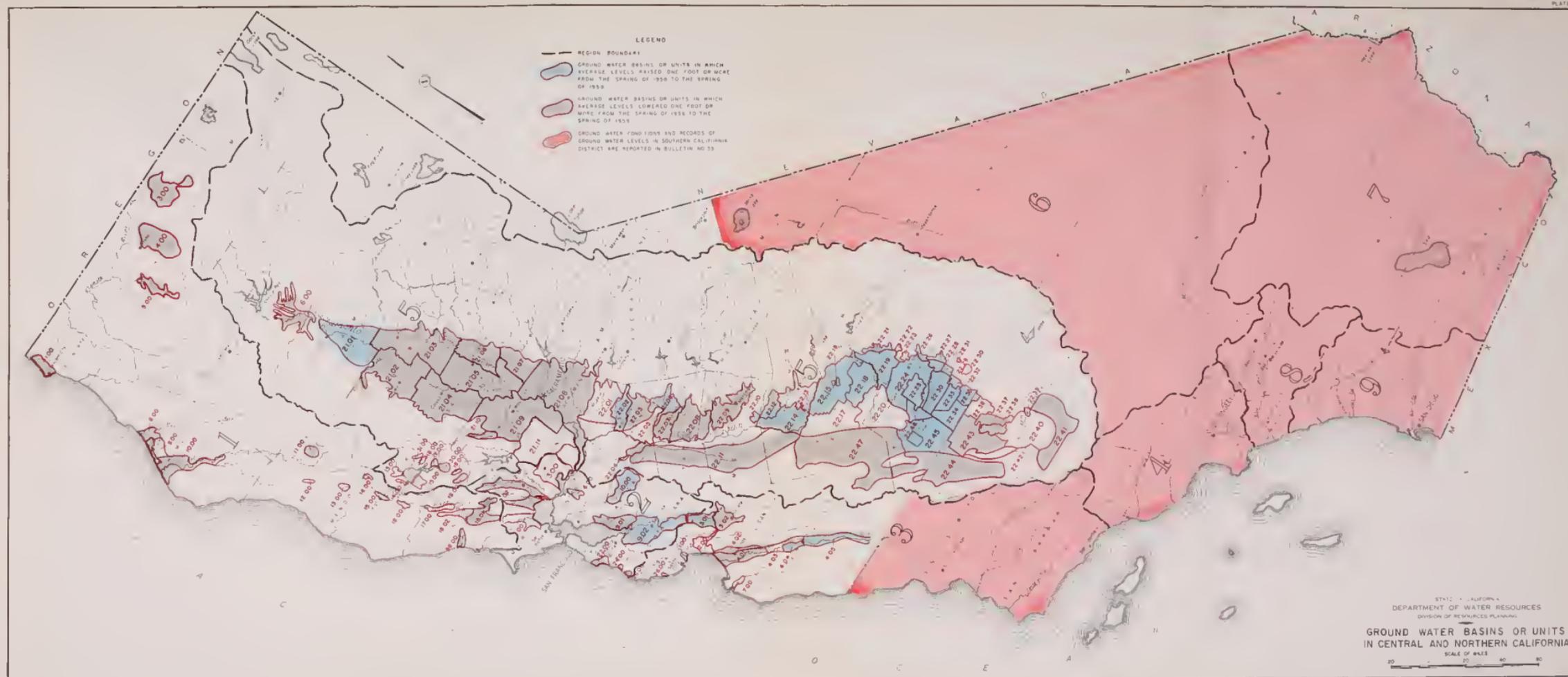
STATE OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING

**GROUND WATER BASINS OR UNITS
 IN CENTRAL AND NORTHERN CALIFORNIA**

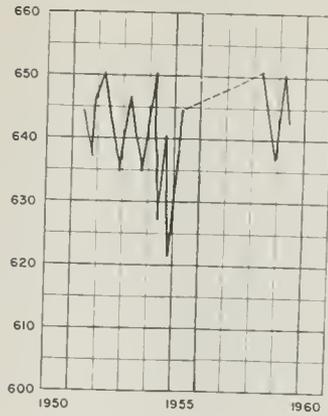


GROUND WATER BASINS OR UNITS IN CENTRAL AND NORTHERN CALIFORNIA

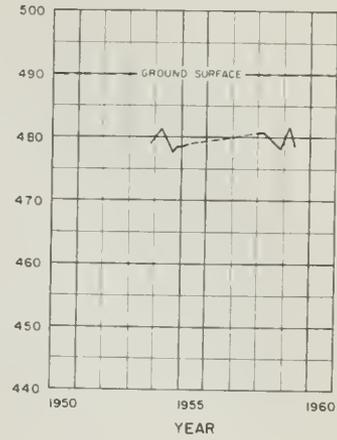
NORTH COASTAL REGION	
1 000	Smith River Plain
1 000	Sutter Valley
1 000	Shasta Valley
1 000	South River Valley
1 800	Mad River Valley
1 900	Eureka Plain
1 10 00	Tol River Valley
1 11 00	Round Valley
1 12 00	Laytonville Valley
1 13 00	Little Lake Valley
1 14 00	Puma Valley
1 15 00	Ulrich Valley
1 16 00	Sonni Valley
1 17 00	Alexander Valley
1 18 00	Santa Rosa Valley
1 18 01	Santa Rosa Area
1 18 02	Hueldebrog Area
1 98 00	Lower Russian River Valley
SAN FRANCISCO BAY REGION	
2 1 00	Petaluma Valley
2 2 01	Marzo Valley
2 2 02	Sonoma Valley
2 3 00	Sutter-Fairfield Valley
2 4 00	Tyngsoo Valley
2 9 00	Santa Clara Valley
2 9 01	South Alameda County
2 9 01	North Santa Clara County
2 10 00	Livermore Valley
2 22 00	Halt Moon Bay Terrace
2 24 00	San Geronimo Valley
2 28 00	Pascadero Valley
CENTRAL COASTAL REGION	
3 26 00	West Santa Cruz Terrace
3 1 00	Sagehen Valley
3 2 00	Pajaro Valley
3 2 00	Gilroy-Miller Valley
3 3 01	South Santa Clara County
3 3 01	San Joaquin County
3 4 00	Salinas Valley
3 4 01	Prunera Area
3 4 02	East Side Area
3 4 03	Fairplay Area
3 4 04	Arroyo Seco Cone
3 4 05	Upper Valley Area
3 7 00	Cornwall Valley
CENTRAL VALLEY REGION	
5 0 00	Bedding Basin
5 12 00	Upper Lake Valley
5 14 00	South Valley
5 15 00	Elginville Valley
5 31 00	Long Valley
5 16 00	High Valley
5 17 00	Burns Valley
5 35 00	Lower Lake Area
5 18 00	Capeay Valley
5 19 00	Colleyan Valley
5 21 00	Sacramento Valley
5 21 01	Tahama County
5 21 02	Glenn County
5 21 03	Butte County
5 21 04	Colusa County
5 21 05	Sutter County
5 21 06	Yuba County
5 21 07	Placer County
5 21 08	Sacramento County
5 21 09	Yale County
5 21 10	Capeay Valley
5 21 11	Saleno County
5 22 00	San Joaquin Valley
5 22 01	Mokelumne River Area
5 22 05	Colusa River Area
5 22 05	Farmington-Collegette Area
5 22 04	Treaty Area
5 22 05	South San Joaquin Irrigation District
5 22 06	Oakdale Irrigation District
5 22 07	Muderie Irrigation District
5 22 08	Turlock Irrigation District
5 22 09	Merced Irrigation District
5 22 10	El Nido Irrigation District
5 22 11	Delta Mandate Area
5 22 12	Chawchilla Water District
5 22 13	Madera Irrigation District
5 22 14	West Chawchilla Madera Area
5 22 15	Fresno Irrigation District
5 22 16	City of Fresno
5 22 17	Fresno Slough Area
5 22 18	Consolidated Irrigation District
5 22 19	Alta Irrigation District
5 22 20	Lower Kings River Area
5 22 21	Orange Cove Irrigation District
5 22 22	Stone Corral Irrigation District
5 22 22	Leannek Irrigation District
5 22 24	Kaweah Delta Water Conservation District
5 22 25	Tulare Irrigation District
5 22 26	Exeter Irrigation District
5 22 27	Lindey-Strethmore Irrigation District
5 22 28	Linderoe Irrigation District
5 22 29	Parlatonville Irrigation District
5 22 30	Lower Yuba River Irrigation District
5 22 31	Vandala Irrigation District
5 22 32	Southern Irrigation District
5 22 33	Palay Irrigation District
5 22 34	Albion-Albion Area
5 22 35	Delano-Fairmont Irrigation District
5 22 36	South San Joaquin Municipal Utility District
5 22 37	North Kern Water Storage District
5 22 38	Shafter-Wasco Irrigation District
5 22 39	City of Bakersfield
5 22 40	Kern River Delta Area
5 22 41	Edison-Monrovia Area
5 22 42	Buxton Vista Water Storage District
5 22 43	Santinggo Water Storage District
5 22 44	Avondale-Rich Area
5 22 45	Tulare Lake-Lost Hills Area
5 22 46	Ceresan Irrigation District
5 22 47	Merced-Horse Area
5 22 50	Terra Bella Irrigation District



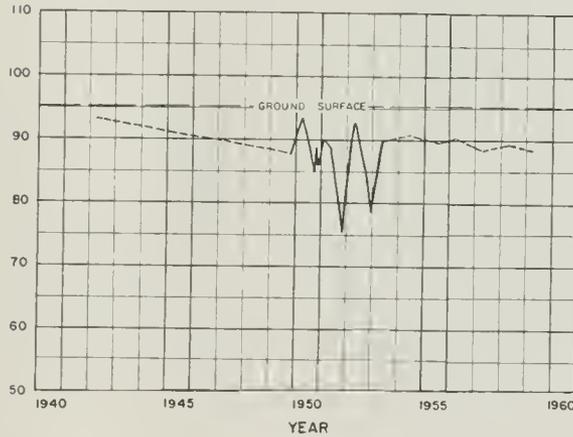
UKIAH VALLEY (I-15.00)
MENDOCINO COUNTY
WELL 15N/12W-8L1, M. D. B. B. M.
GROUND SURFACE ELEVATION 665'



SANEL VALLEY (I-16.00)
MENDOCINO COUNTY
WELL 13N/11W-18E1, M. D. B. B. M.
GROUND SURFACE ELEVATION 490'



SANTA ROSA VALLEY (I-18.00) SANTA ROSA AREA (I-18.01)
SONOMA COUNTY
WELL 6N/BW-15J1, M. D. B. B. M.
GROUND SURFACE ELEVATION 95'



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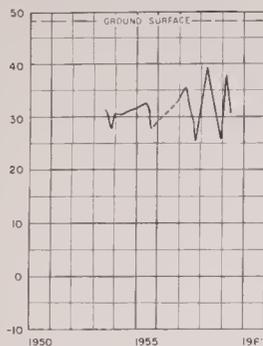
NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

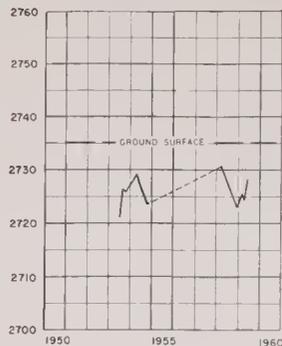
FLUCTUATION OF WATER LEVEL
IN WELLS
NORTH COASTAL REGION

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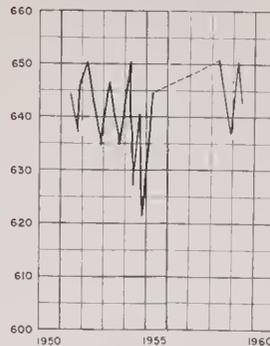
SMITH RIVER PLAIN (I-100)
DEL NORTE COUNTY
 WELL 16N/1W-17K1, H 8 8 M
 GROUND SURFACE ELEVATION 48'



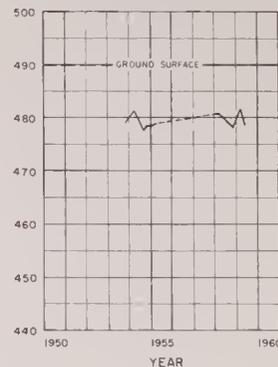
SCOTT RIVER VALLEY (I-500)
SISKIYOU COUNTY
 WELL 43N/9W-24F1, M O 8 8 M
 GROUND SURFACE ELEVATION 2,735'



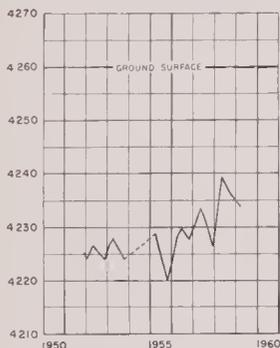
UKIAH VALLEY (I-1500)
MENOCINO COUNTY
 WELL 15N/12W-8L1, M O 8 8 M
 GROUND SURFACE ELEVATION 665'



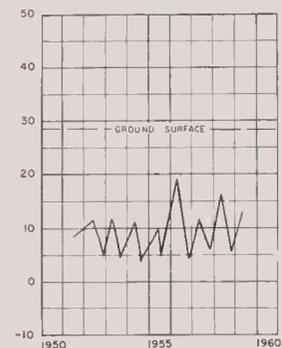
SANEL VALLEY (I-1600)
MENOCINO COUNTY
 WELL 13N/11W-18E1, M O 8 8 M
 GROUND SURFACE ELEVATION 490'



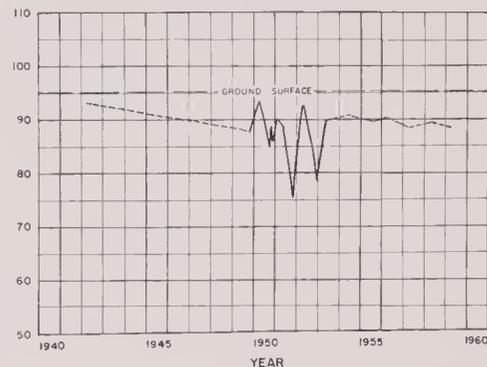
BUTTE VALLEY (I-300)
SISKIYOU COUNTY
 WELL 45N/2W-3A1, M O 8 8 M
 GROUND SURFACE ELEVATION 4,260'



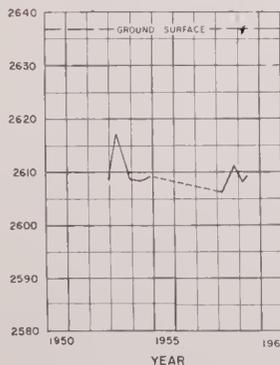
EEL RIVER VALLEY (I-1000)
HUMBOLDT COUNTY
 WELL 2N/1W-8B1, H 8 8 M
 GROUND SURFACE ELEVATION 28'



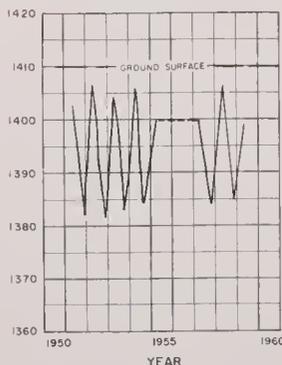
SANTA ROSA VALLEY (I-1800) SANTA ROSA AREA (I-1801)
SONOMA COUNTY
 WELL 6N/8W-15J1, M O 8 8 M
 GROUND SURFACE ELEVATION 93'



SHASTA VALLEY (I-400)
SISKIYOU COUNTY
 WELL 44N/5W-34M1, M O 8 8 M
 GROUND SURFACE ELEVATION 2,637'



ROUND VALLEY (I-1100)
MENOCINO COUNTY
 WELL 22N/12W-19M1, M O 8 8 M
 GROUND SURFACE ELEVATION 1,400'



NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

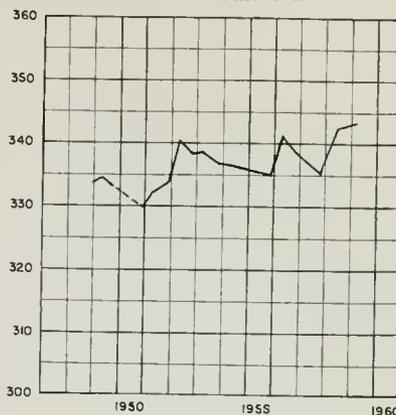
STATE OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 GROUND WATER CONDITIONS
 IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

FLUCTUATION OF WATER LEVEL
 IN WELLS
 NORTH COASTAL REGION

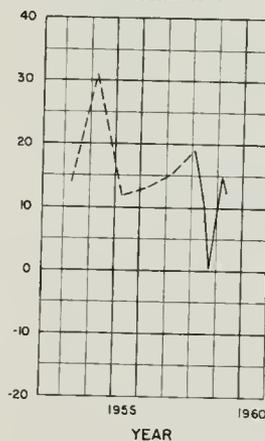
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LIVERMORE VALLEY (2-10.00)
ALAMEDA COUNTY
WELL 3S/1E-2E1, M.O.B.M.
GROUND SURFACE ELEVATION 361'



HALF MOON BAY TERRACE (2-22.00)
SAN MATEO COUNTY
WELL 5S/5W-29N1, M.O.B.M.
GROUND SURFACE ELEVATION 46'



NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

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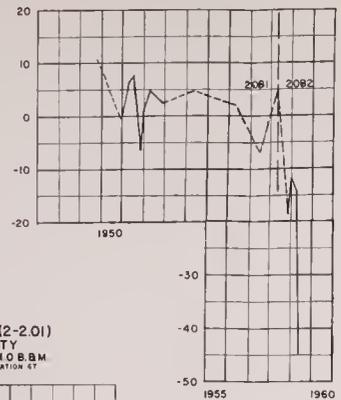
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
CENTRAL AND NORTHERN CALIFORNIA, 1958 - 59

FLUCTUATION OF WATER LEVEL
IN WELLS
SAN FRANCISCO BAY REGION

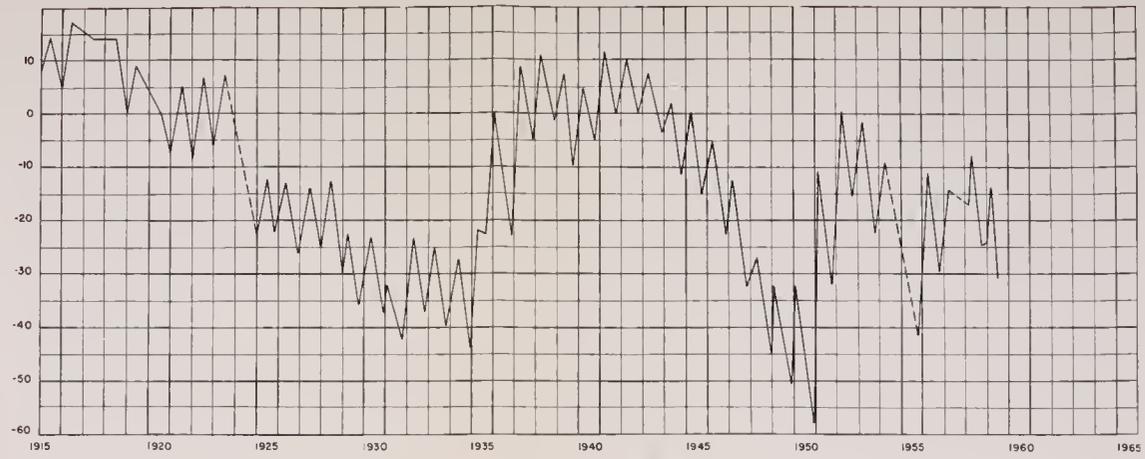
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ELEVATION IN FEET - U.S.G.S DATUM

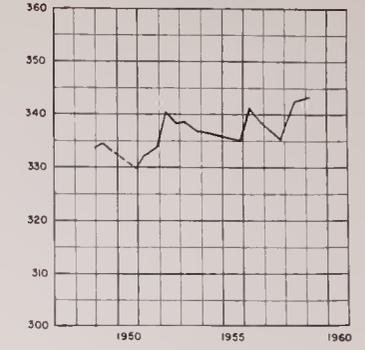
PETALUMA VALLEY (2-100)
SONOMA COUNTY
WELL 5N/7W-20B1, 20B2, M.O.B.B.M.
GROUND SURFACE ELEVATION 40.4



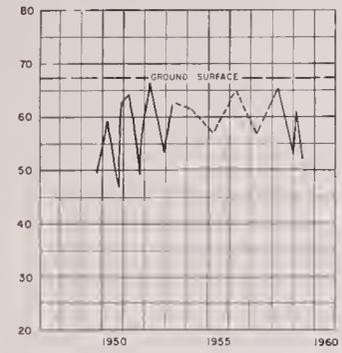
SANTA CLARA VALLEY (2-900)
SOUTH ALAMEDA COUNTY (2-901) UPPER AQUIFER
WELL 4S/1W-29C4, M.O.B.B.M.
GROUND SURFACE ELEVATION 55



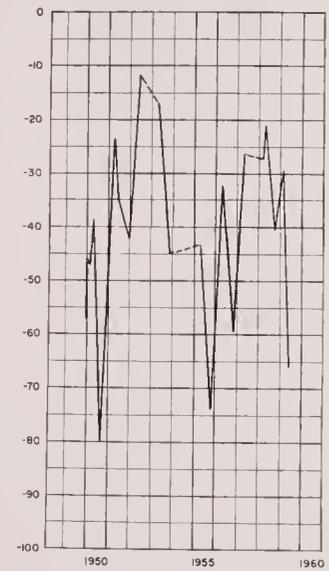
LIVERMORE VALLEY (2-1000)
ALAMEDA COUNTY
WELL 3S/1E-2E1, M.O.B.B.M.
GROUND SURFACE ELEVATION 35



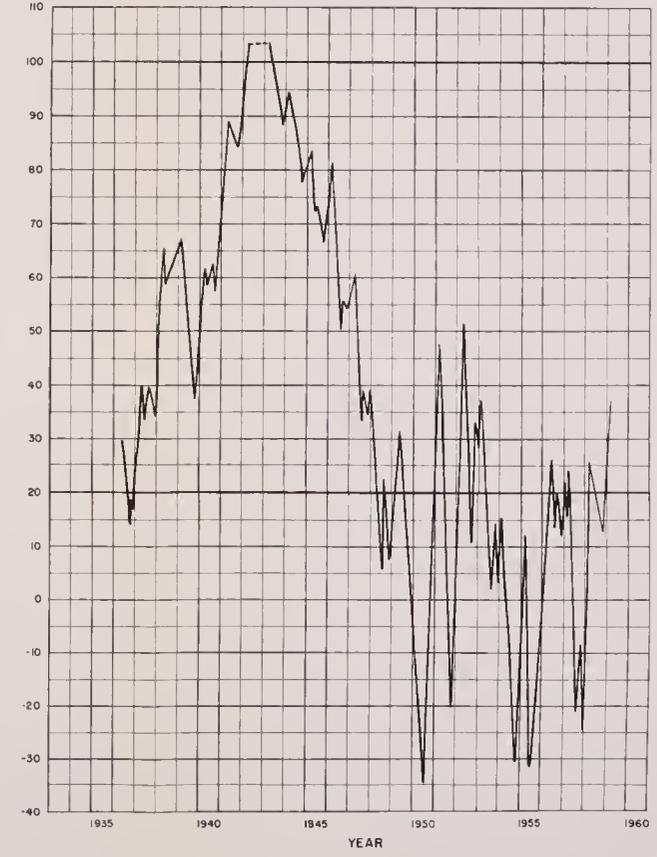
NAPA VALLEY (2-201)
NAPA COUNTY
WELL 6N/4W-17A1, M.O.B.B.M.
GROUND SURFACE ELEVATION 47



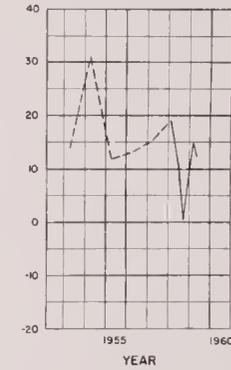
SANTA CLARA VALLEY (2-900)
SOUTH ALAMEDA COUNTY (2-901) LOWER AQUIFER
WELL 4S/2W-36K1, M.O.B.B.M.
GROUND SURFACE ELEVATION 25



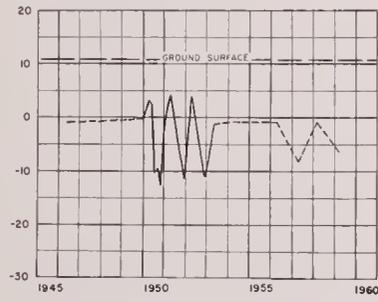
SANTA CLARA VALLEY (2-900)
NORTH SANTA CLARA COUNTY (2-902)
WELL 7S/1E-31A2, M.O.B.B.M.
GROUND SURFACE ELEVATION 153



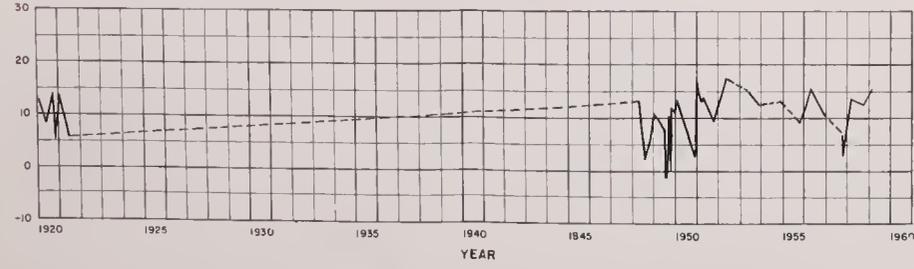
HALF MOON BAY TERRACE (2-2200)
SAN MATEO COUNTY
WELL 5S/5W-29N1, M.O.B.B.M.
GROUND SURFACE ELEVATION 45



SONOMA VALLEY (2-202)
SONOMA COUNTY
WELL 5N/5W-28N1, M.O.B.B.M.
GROUND SURFACE ELEVATION 11



SUISUN-FAIRFIELD VALLEY (2-300)
SOLANO COUNTY
WELL 4N/2W-6A1, M.O.B.B.M.
GROUND SURFACE ELEVATION 35



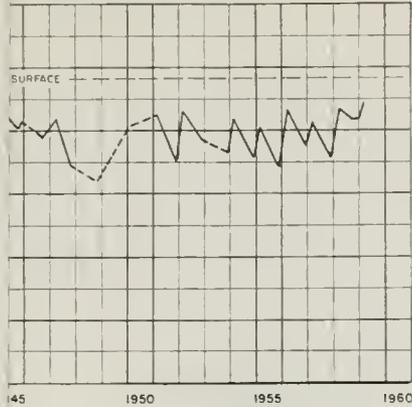
NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958 - 59

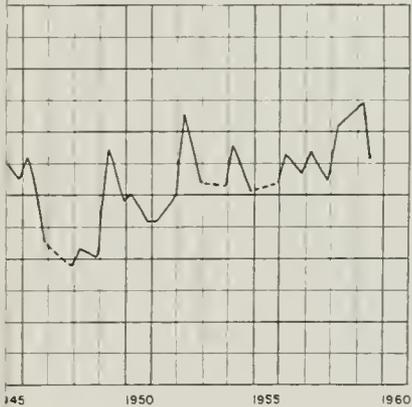
FLUCTUATION OF WATER LEVEL
IN WELLS
SAN FRANCISCO BAY REGION

ELEVATION IN FEET - U.S.G.S DATUM

TEREY COUNTY (3-400)
CONE (3-404)
32E1, M.D.B.M.
ELEVATION 168



TEREY COUNTY (3-400)
AREA (3-405)
10P1, M.D.B.M.
ELEVATION 315



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NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS
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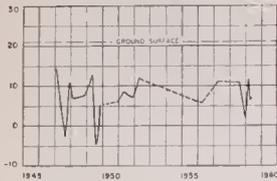
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STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958 - 59

◆
FLUCTUATION OF WATER LEVEL
IN WELLS
CENTRAL COASTAL REGION

43718

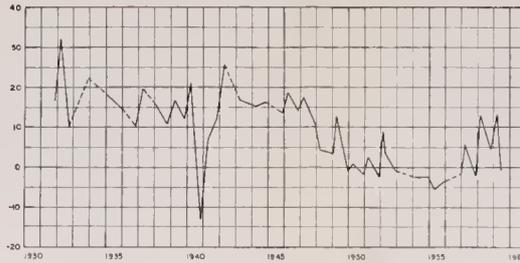
PAJARO VALLEY (3-200)
MONTEREY COUNTY
WELL 12572E-15A, M.O.B.B.M.
GROUND SURFACE ELEVATION 22



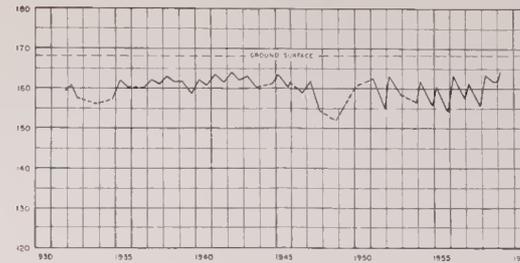
GILROY-HOLLISTER VALLEY (3-300)
SAN BENITO COUNTY (3-302)
WELL 12570E-109, M.O.B.B.M.
GROUND SURFACE ELEVATION 22



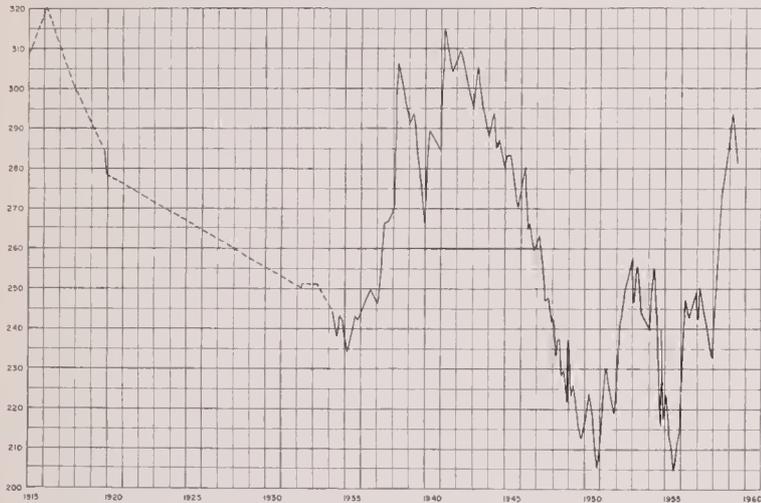
SALINAS VALLEY MONTEREY COUNTY (3-400)
PRESSURE AREA-400 FOOT AQUIFER (3-401)
WELL 14573E-109, M.O.B.B.M.
GROUND SURFACE ELEVATION 71



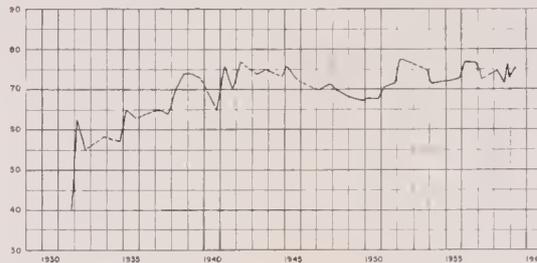
SALINAS VALLEY MONTEREY COUNTY (3-400)
ARROYO SECO CONE (3-404)
WELL 17574E-136E, M.O.B.B.M.
GROUND SURFACE ELEVATION 15



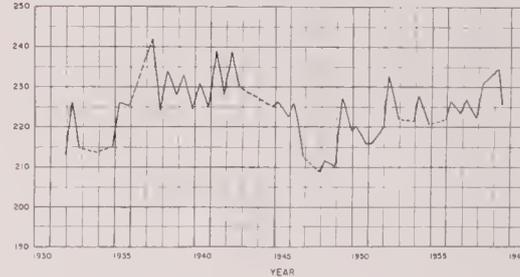
GILROY-HOLLISTER VALLEY (3-300)
SOUTH SANTA CLARA COUNTY (3-301)
WELL 35735E-272G, M.O.B.B.M.
GROUND SURFACE ELEVATION 347



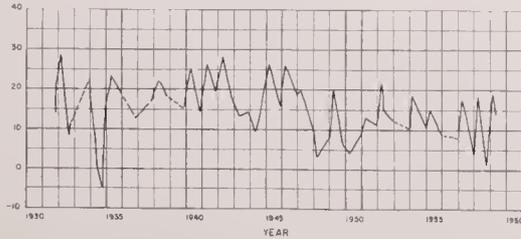
SALINAS VALLEY MONTEREY COUNTY (3-400)
EAST SIDE AREA (3-402)
WELL 14573E-15X1, M.O.B.B.M.
GROUND SURFACE ELEVATION 127



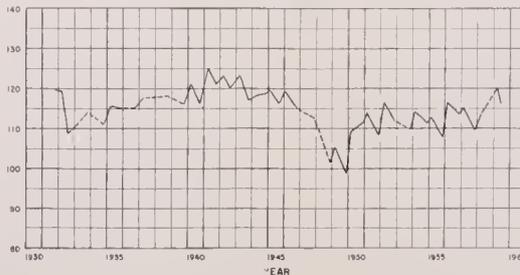
SALINAS VALLEY MONTEREY COUNTY (3-400)
UPPER VALLEY AREA (3-403)
WELL 19577E-109, M.O.B.B.M.
GROUND SURFACE ELEVATION 34



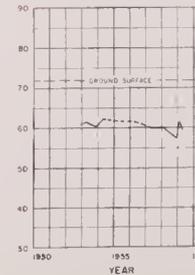
SALINAS VALLEY MONTEREY COUNTY (3-400)
PRESSURE AREA-180 FOOT AQUIFER (3-401)
WELL 15572E-101, M.O.B.B.M.
GROUND SURFACE ELEVATION 42



SALINAS VALLEY MONTEREY COUNTY (3-400)
FOREBAY AREA (3-403)
WELL 17574E-112C, M.O.B.B.M.
GROUND SURFACE ELEVATION 112



CARMEL VALLEY (3-700)
MONTEREY COUNTY
WELL 8557E-21A1, M.O.B.B.M.
GROUND SURFACE ELEVATION 75



NOTE: --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

FLUCTUATION OF WATER LEVEL
IN WELLS
CENTRAL COASTAL REGION

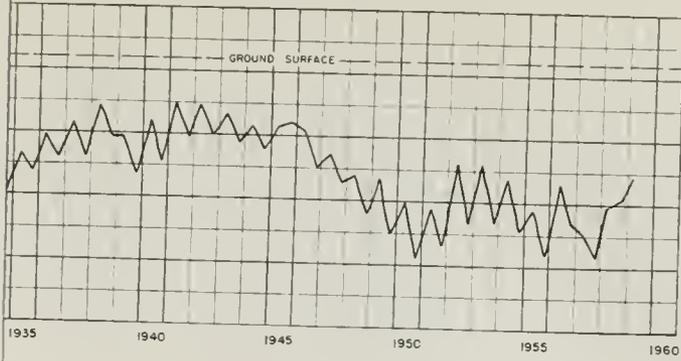
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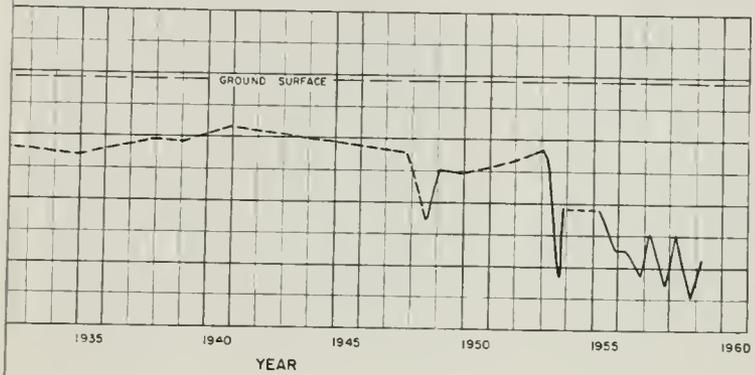
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SACRAMENTO VALLEY (5-21.00)
YOLO COUNTY (5-21.09)
WELL 10N/2E-21M2, M.D.B.M.
GROUND SURFACE ELEVATION 52'



SACRAMENTO VALLEY (5-21.00)
SOLANO COUNTY (5-21.11)
WELL 6N/2E-29N1, M.D.B.M.
GROUND SURFACE ELEVATION 19'



- CONNECTS MEASUREMENTS MADE AT INTERVALS
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STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

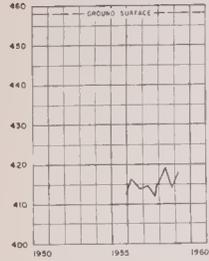
◆
FLUCTUATION OF WATER LEVEL
IN WELLS IN SACRAMENTO VALLEY
CENTRAL VALLEY REGION

43719

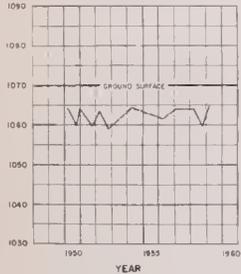
MOUNTAIN STATES I T E E L Z I O T T I A V A L L E E

N I T U T A T I O N S S U I F E E T E L E V A T I O N

REDDING BASIN (5-600)
SHASTA COUNTY
WELL 31N/3W-18E, M.O.B.M.
GROUND SURFACE ELEVATION 432



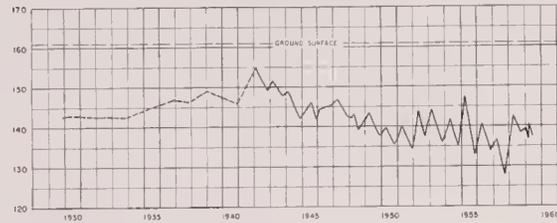
COLLAYOMI VALLEY (5-1900)
LAKE COUNTY
WELL 11N/7W-35E, M.O.B.M.
GROUND SURFACE ELEVATION 1070



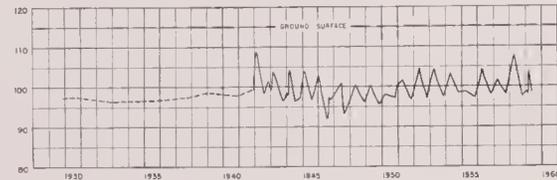
SACRAMENTO VALLEY (5-2100)
TERAMA COUNTY (5-2101)
WELL 26N/3W-14E, M.O.B.M.
GROUND SURFACE ELEVATION 291



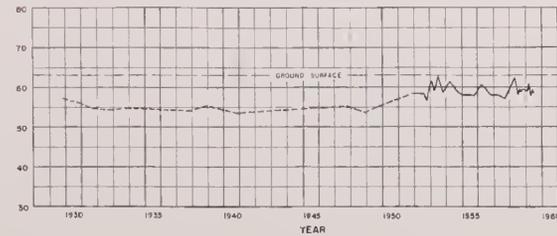
SACRAMENTO VALLEY (5-2100)
GLENN COUNTY (5-2102)
WELL 21N/2W-31E, M.O.B.M.
GROUND SURFACE ELEVATION 41



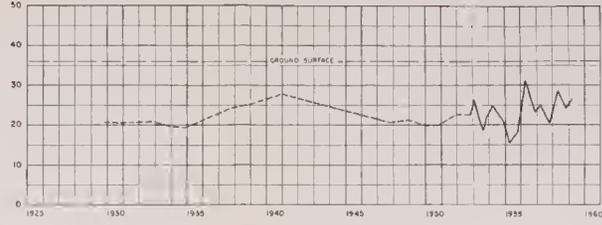
SACRAMENTO VALLEY (5-2100)
BUTTE COUNTY (5-2103)
WELL 21N/1W-25E, M.O.B.M.
GROUND SURFACE ELEVATION 115



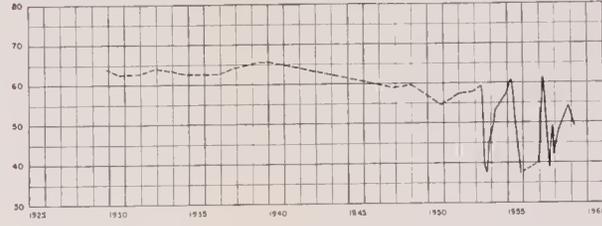
SACRAMENTO VALLEY (5-2100)
COLUSA COUNTY (5-2104)
WELL 17N/2W-11E, M.O.B.M.
GROUND SURFACE ELEVATION 63



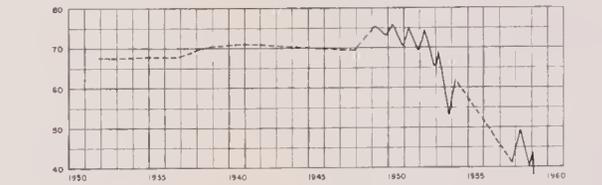
SACRAMENTO VALLEY (5-2100)
BUTTE COUNTY (5-2105)
WELL 13N/2E-14E, M.O.B.M.
GROUND SURFACE ELEVATION 34



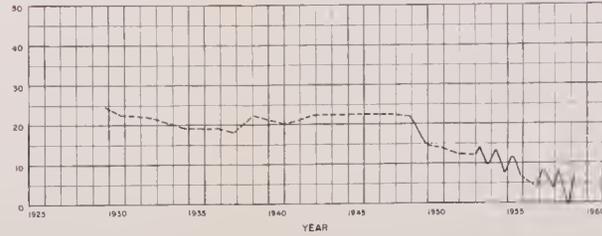
SACRAMENTO VALLEY (5-2100)
YUBA COUNTY (5-2106)
WELL 13N/2E-33E, M.O.B.M.
GROUND SURFACE ELEVATION 61



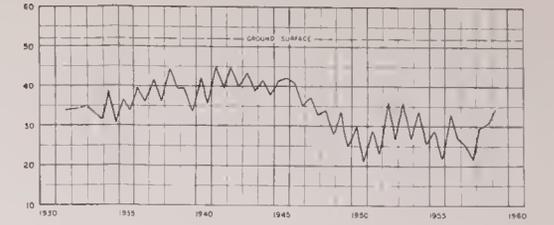
SACRAMENTO VALLEY (5-2100)
PLACER COUNTY (5-2107)
WELL 12N/2E-35E, M.O.B.M.
GROUND SURFACE ELEVATION 62



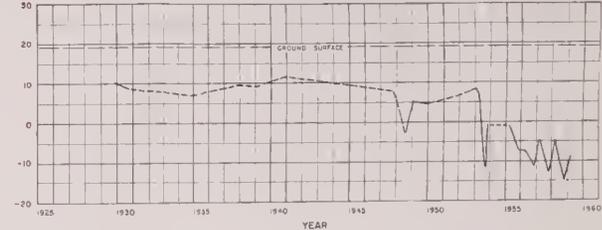
SACRAMENTO VALLEY (5-2100)
SACRAMENTO COUNTY (5-2108)
WELL 8N/2E-20E, M.O.B.M.
GROUND SURFACE ELEVATION 57



SACRAMENTO VALLEY (5-2100)
YOLO COUNTY (5-2109)
WELL 8N/2E-21E, M.O.B.M.
GROUND SURFACE ELEVATION 47



SACRAMENTO VALLEY (5-2100)
SOLANO COUNTY (5-2111)
WELL 8N/2E-20W, M.O.B.M.
GROUND SURFACE ELEVATION 19

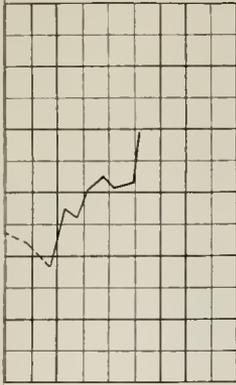
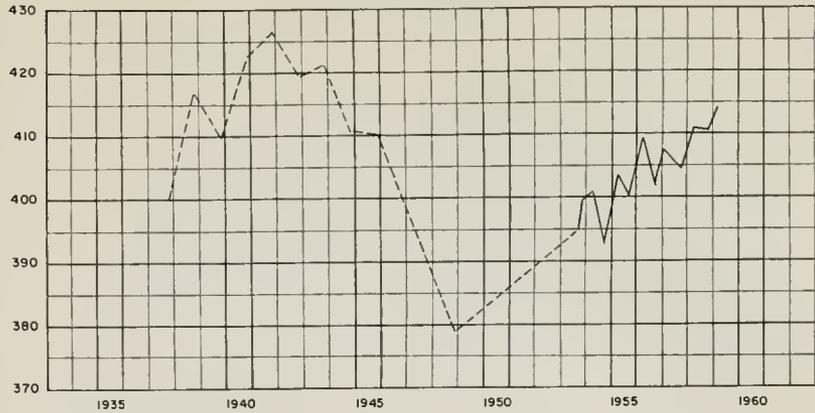


NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

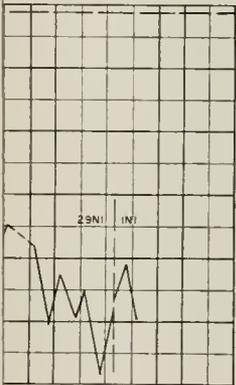
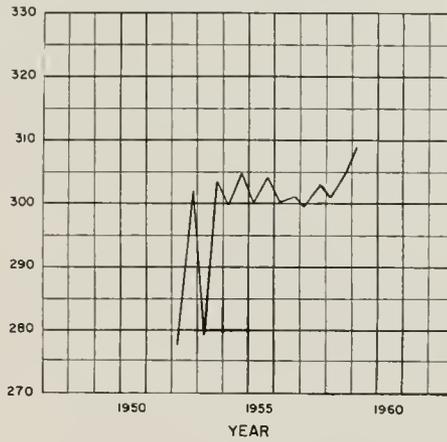
FLUCTUATION OF WATER LEVEL
IN WELLS IN SACRAMENTO VALLEY
CENTRAL VALLEY REGION

SAN JOAQUIN VALLEY (5-22.00)
 EXETER IRRIGATION DISTRICT (5-22.26)
 WELL 185/27E-290I, M.D.B.M.
 GROUND SURFACE ELEVATION 446'



1955 1960

SAN JOAQUIN VALLEY (5-22.00)
 LINDSAY-STATHMORE IRRIGATION DISTRICT (5-22.27)
 WELL 205/27E-68I, M.D.B.M.
 GROUND SURFACE ELEVATION 372'



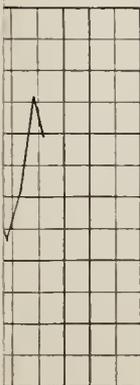
1955 1960

NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

STATE OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 GROUND WATER CONDITIONS
 IN CENTRAL AND NORTHERN CALIFORNIA, 1958 - 59

FLUCTUATION OF WATER LEVEL
 IN WELLS IN NORTHERN SAN JOAQUIN VALLEY
 CENTRAL VALLEY REGION

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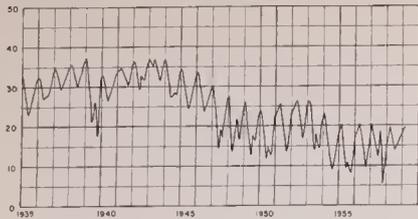
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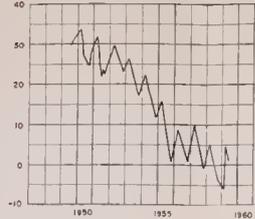
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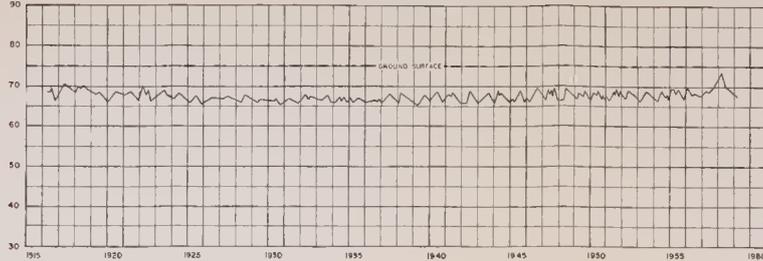
SAN JOAQUIN VALLEY (5-2200)
MOKELUANE RIVER AREA (5-22 01)
WELL 51/7E-014 M.O.B.M.
GROUND SURFACE ELEVATION 31



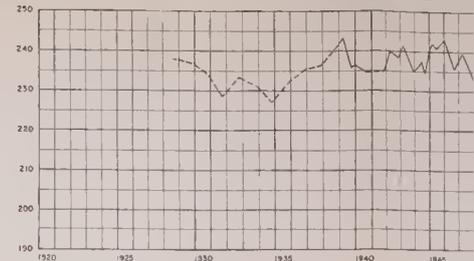
SAN JOAQUIN VALLEY (5-2200)
FARMINGTON - COLLEGEVILLE AREA (5-22 03)
WELL 11/4E-170 M.O.B.M.
GROUND SURFACE ELEVATION 41



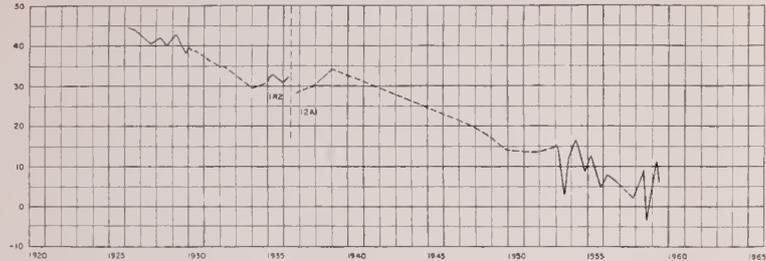
SAN JOAQUIN VALLEY (5-2200)
TURLOCK IRRIGATION DISTRICT (5-22 08)
WELL 55/7E-24 NI M.O.B.M.
GROUND SURFACE ELEVATION 70



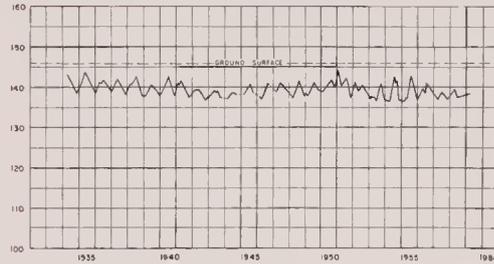
SAN JOAQUIN VALLEY (5-2200)
MAGERA IRRIGATION DISTRICT (5-22 09)
WELL 15/4E-210 NI M.O.B.M.
GROUND SURFACE ELEVATION 197



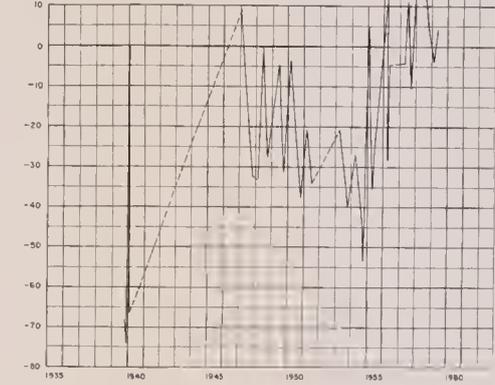
SAN JOAQUIN VALLEY (5-2200)
CALAVERAS RIVER AREA (5-22 02)
WELL 01/7E-192 NI M.O.B.M.
GROUND SURFACE ELEVATION 14



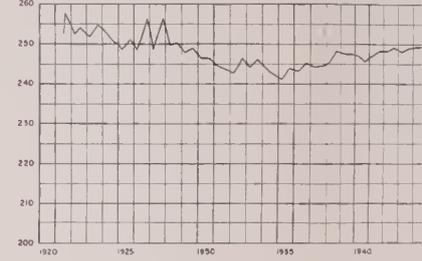
SAN JOAQUIN VALLEY (5-2200)
MERCED IRRIGATION DISTRICT (5-22 09)
WELL 75/1E-128 NI M.O.B.M.
GROUND SURFACE ELEVATION 148



SAN JOAQUIN VALLEY (5-2200)
DELTA-MENDOTA AREA - DEEP ZONE (5-22 11)
WELL 135/1E-101 NI M.O.B.M.
GROUND SURFACE ELEVATION 202



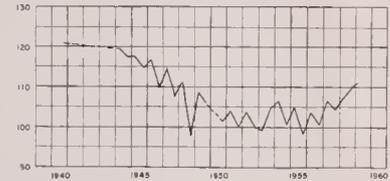
SAN JOAQUIN VALLEY (5-2200)
FRESNO IRRIGATION DISTRICT (5-22 10)
WELL 135/1E-20 NI M.O.B.M.
GROUND SURFACE ELEVATION 208



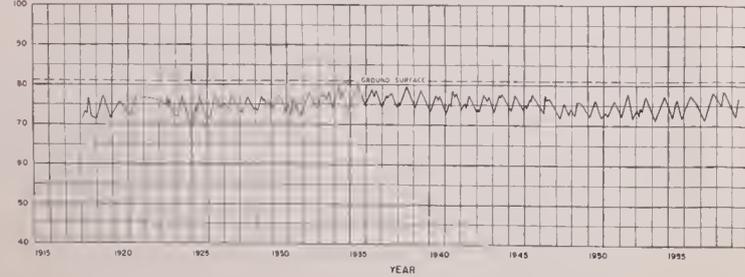
SAN JOAQUIN VALLEY (5-2200)
TRACY AREA (5-22 04)
WELL 39/1E-101 NI M.O.B.M.
GROUND SURFACE ELEVATION 34



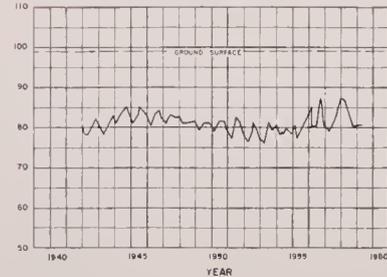
SAN JOAQUIN VALLEY (5-2200)
OAKDALE IRRIGATION DISTRICT (5-22 06)
WELL 25/1E-320 NI M.O.B.M.
GROUND SURFACE ELEVATION 117



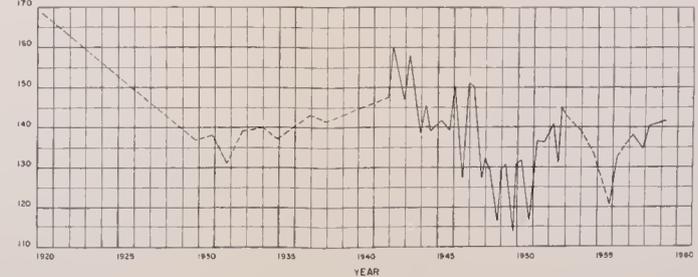
SAN JOAQUIN VALLEY (5-2200)
MODESTO IRRIGATION DISTRICT (5-22 07)
WELL 38/1E-134 NI M.O.B.M.
GROUND SURFACE ELEVATION 81



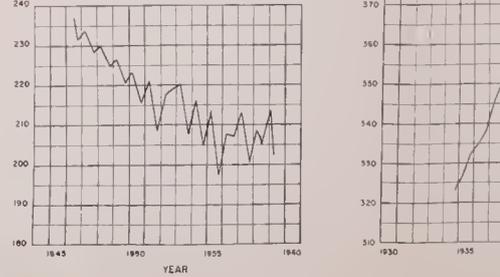
SAN JOAQUIN VALLEY (5-2200)
DELTA-MENDOTA AREA - SHALLOW ZONE (5-22 11)
WELL 35/1E-101 NI M.O.B.M.
GROUND SURFACE ELEVATION 91

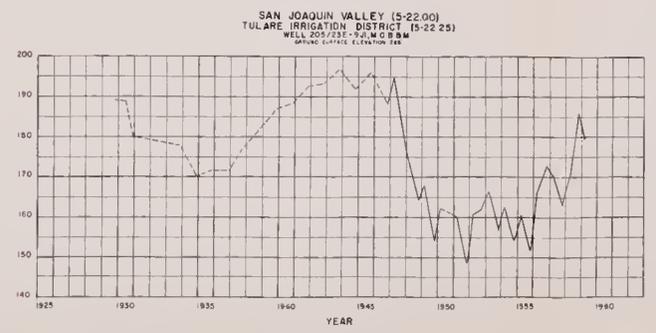
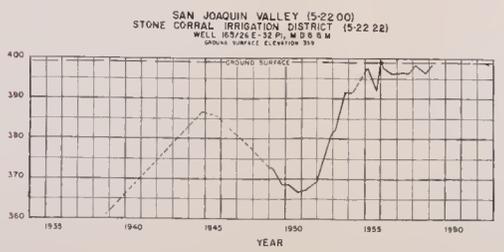
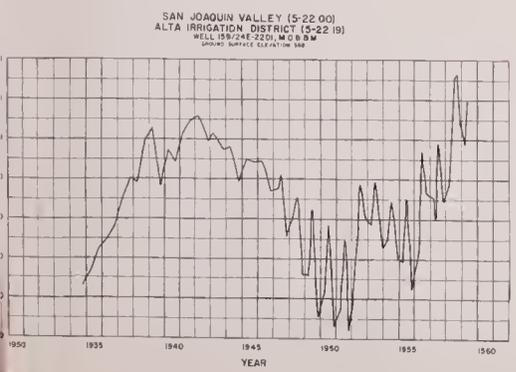
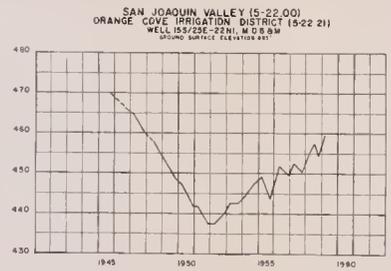
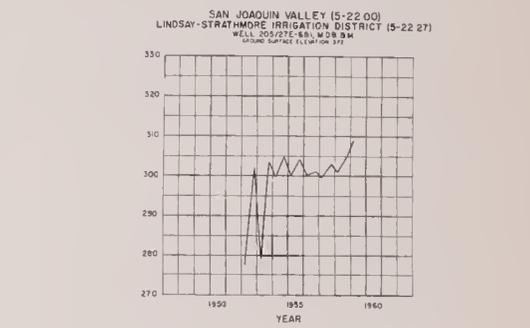
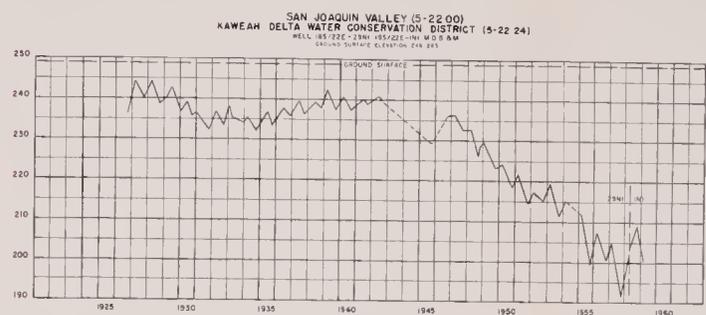
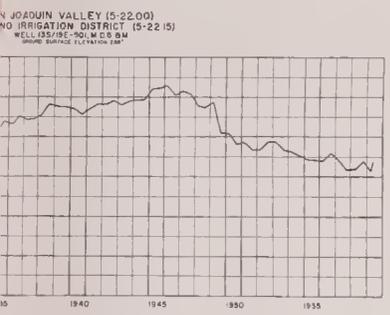
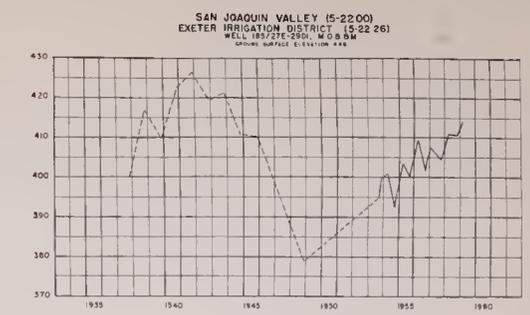
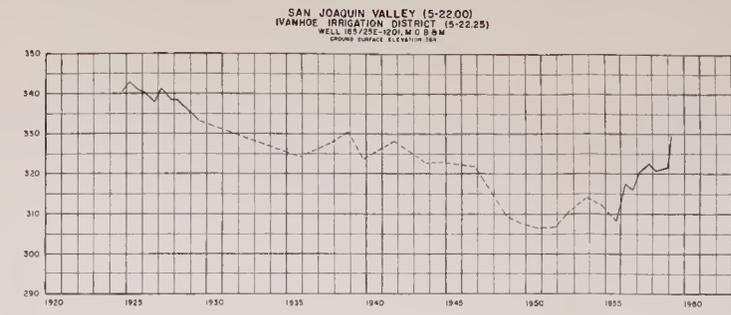
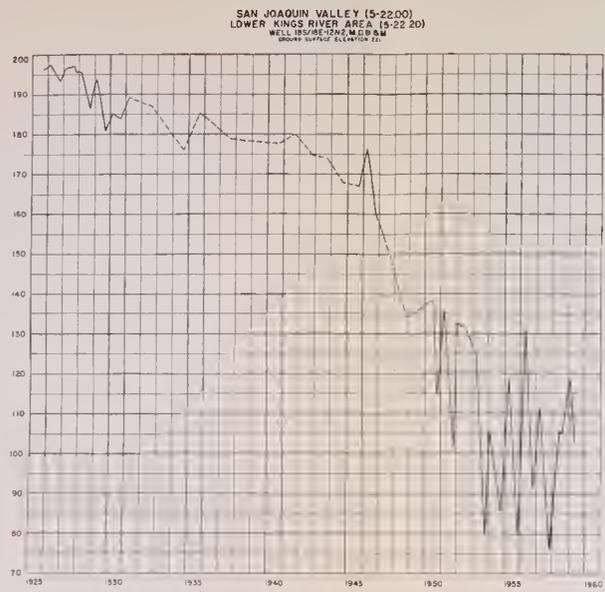
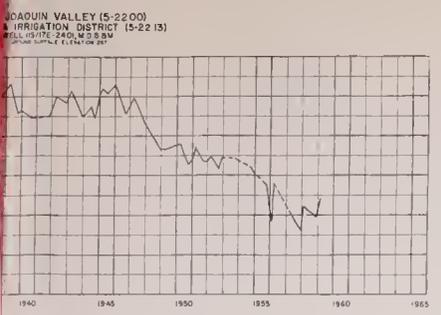


SAN JOAQUIN VALLEY (5-2200)
CHOWCHILLA WATER DISTRICT (5-22 12)
WELL 105/1E-124 NI M.O.B.M.
GROUND SURFACE ELEVATION 84



SAN JOAQUIN VALLEY (5-2200)
CONSOLIDATED IRRIGATION DISTRICT (5-22 18)
WELL 85/2E-22 NI M.O.B.M.
GROUND SURFACE ELEVATION 214





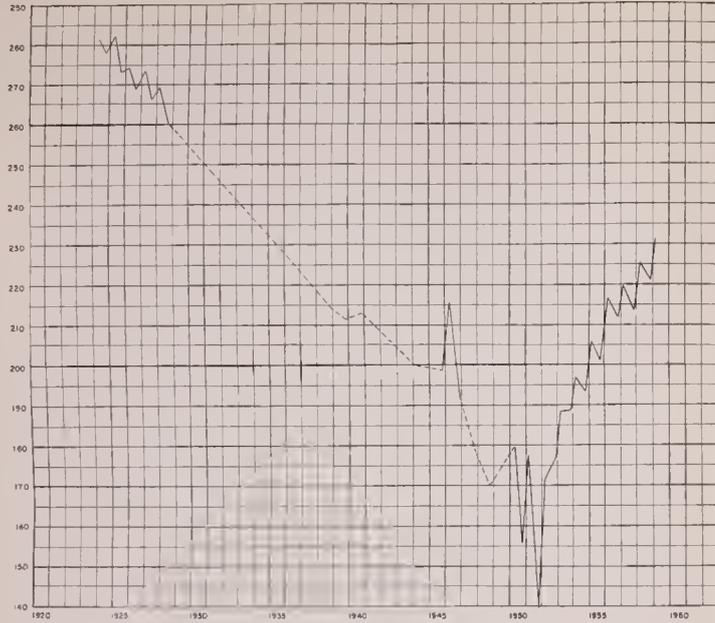
NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

STATE OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING
 GROUND WATER CONDITIONS
 IN CENTRAL AND NORTHERN CALIFORNIA, 1958 - 59

FLUCTUATION OF WATER LEVEL
 IN WELLS IN NORTHERN SAN JOAQUIN VALLEY
 CENTRAL VALLEY REGION

ELEVATION IN FEET JULY 1960

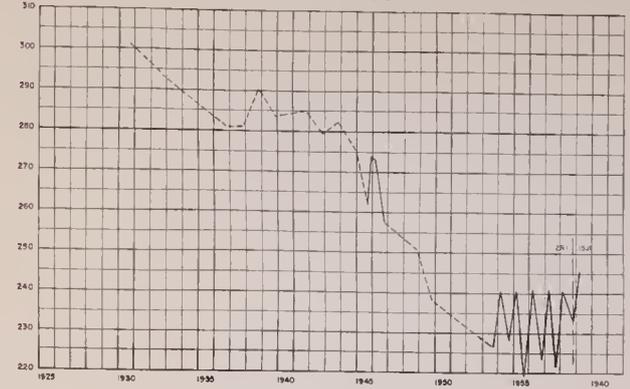
SAN JOAQUIN VALLEY (5-22.00)
LINDMORE IRRIGATION DISTRICT (5-22.28)
WELL 203/262-277.0 M.O.B.M.
GROUND SURFACE ELEVATION 242



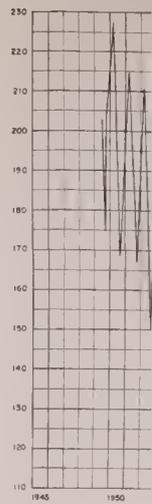
SAN JOAQUIN VALLEY (5-22.00)
LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 219/262-401.0 M.O.B.M.
GROUND SURFACE ELEVATION 299



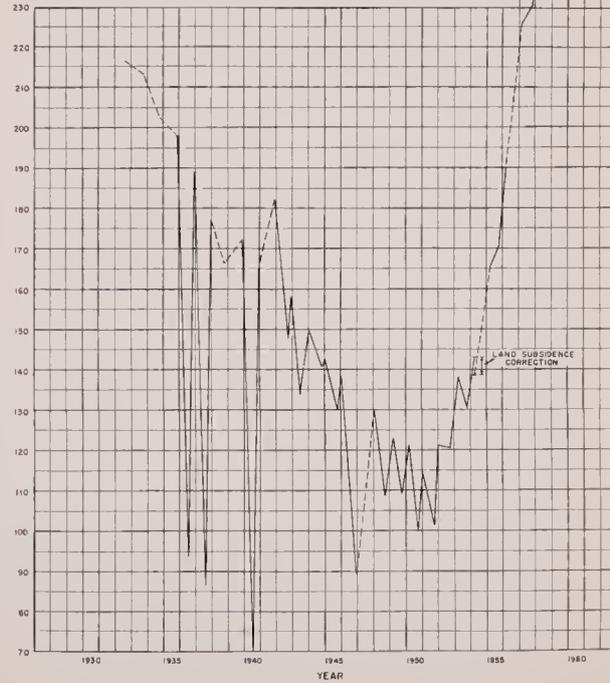
SAN JOAQUIN VALLEY (5-22.00)
SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 223/262-291.23355-100 M.O.B.M.
GROUND SURFACE ELEVATION 197.37



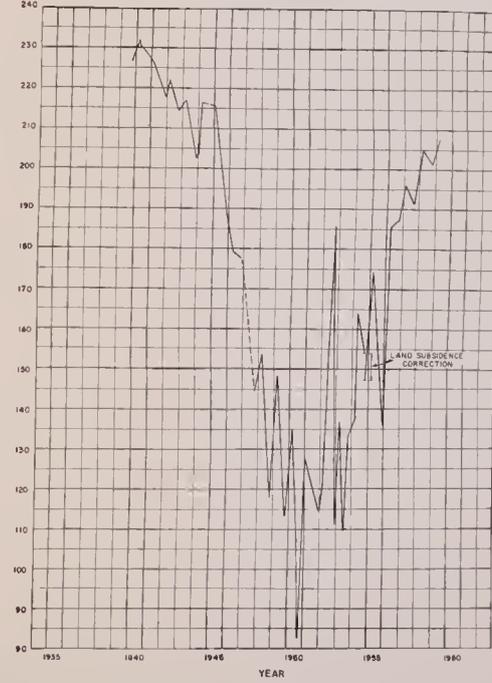
SAN JOAQUIN VALLEY (5-22.00)
SHAFTER-WASCO IRRIGATION DISTRICT (5-22.34)
WELL 275/234-100 M.O.B.M.
GROUND SURFACE ELEVATION 171



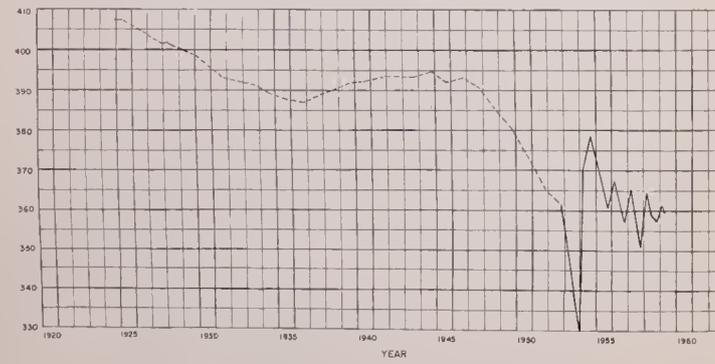
SAN JOAQUIN VALLEY (5-22.00)
OELANO-EARLMART IRRIGATION DISTRICT (5-22.35)
WELL 248/262-120.0 M.O.B.M.
GROUND SURFACE ELEVATION 348



SAN JOAQUIN VALLEY (5-22.00)
SOUTH SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 233/262-280.0 M.O.B.M.
GROUND SURFACE ELEVATION 618



SAN JOAQUIN VALLEY (5-22.00)
PORTERVILLE IRRIGATION DISTRICT (5-22.29)
WELL 228/272-101.0 M.O.B.M.
GROUND SURFACE ELEVATION 407



SAN JOAQUIN VALLEY (5-22.00)
NORTH SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.37)
WELL 273/232-100 M.O.B.M.
GROUND SURFACE ELEVATION 111



ELEVATION IN FEET - DATUM

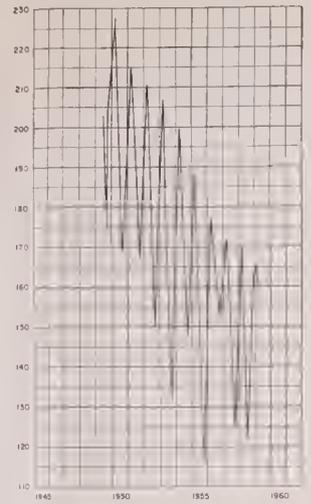
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YEAR

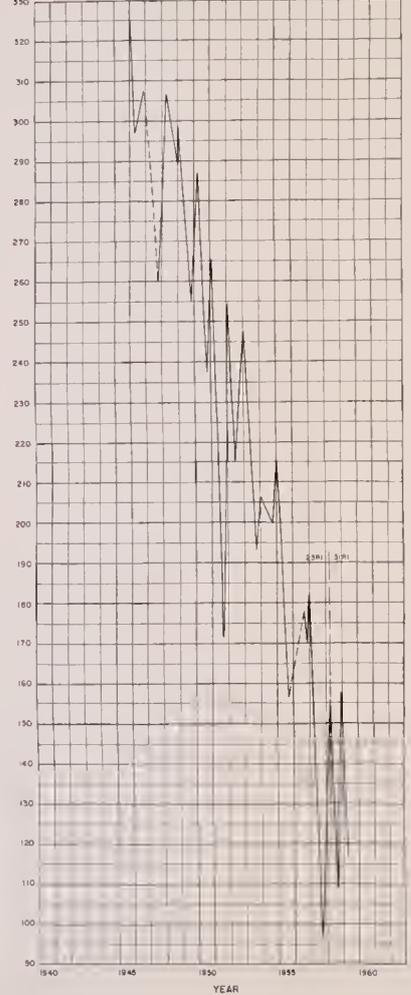
YEAR

YEAR

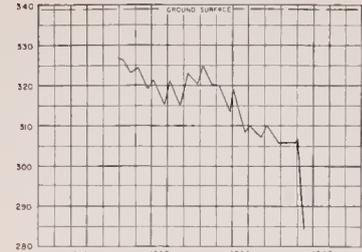
SAN JOAQUIN VALLEY (5-2200)
SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 275/24E-330L, M O B M
GROUND SURFACE ELEVATION 84



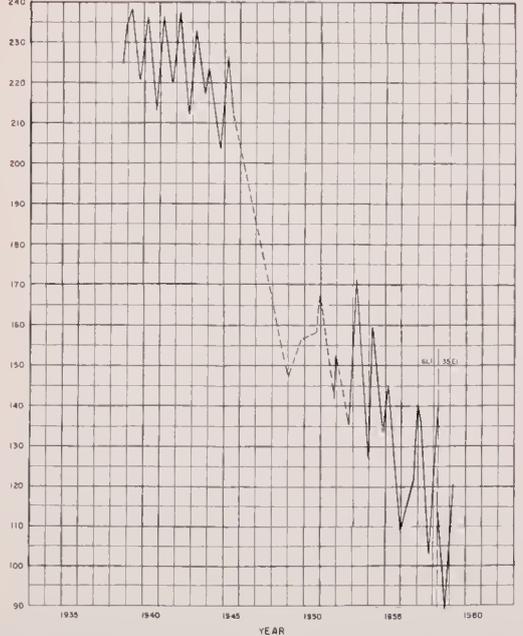
SAN JOAQUIN VALLEY (5-2200)
EDISON-MARICOPA AREA (5-22.41)
WELL 325/28E-23R, M O B M, (2N, 20W-3R) 5 O B M
GROUND SURFACE ELEVATION 387.345



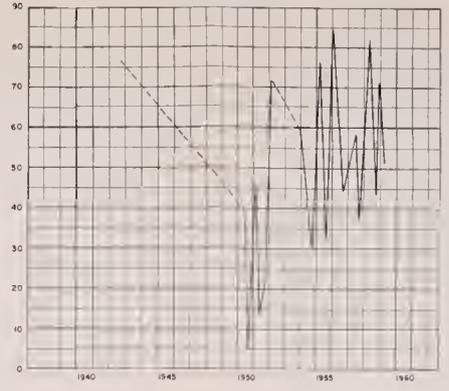
SAN JOAQUIN VALLEY (5-2200)
KERN RIVER DELTA AREA (5-22.40)
WELL 500/25E-27A, M O B M
GROUND SURFACE ELEVATION 359



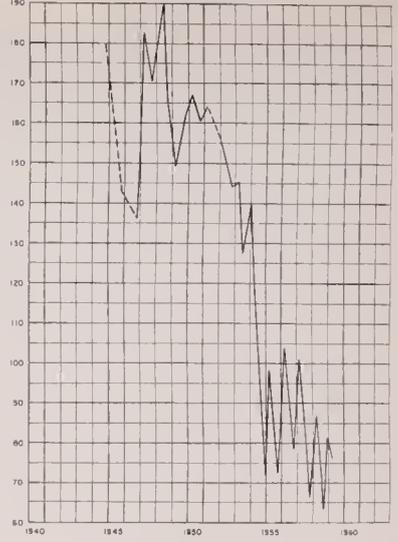
SAN JOAQUIN VALLEY (5-2200)
SEMITROPIC WATER STORAGE DISTRICT (5-22.43)
WELL 275/23E-6L, 255/22E-35E, M O B M
GROUND SURFACE ELEVATION 360.29



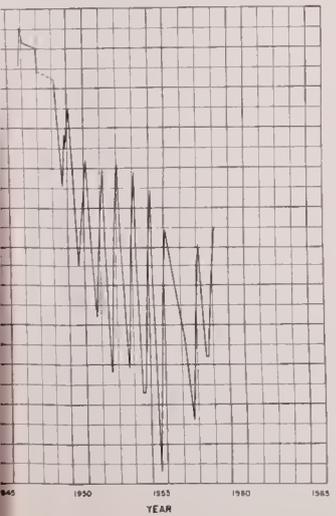
SAN JOAQUIN VALLEY (5-2200)
MENDOTA-HURON AREA (5-22.47)
WELL 175/18E-24R, M O B M
GROUND SURFACE ELEVATION 58



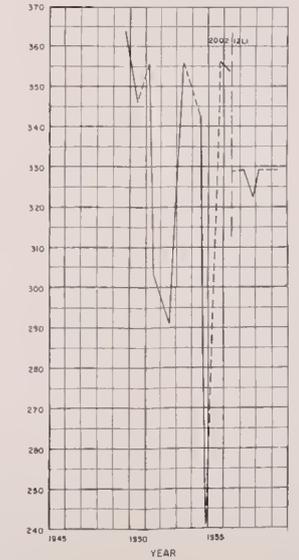
SAN JOAQUIN VALLEY (5-2200)
WENDOTA-HURON AREA (5-22.47)
WELL 215/18E-24R, M O B M
GROUND SURFACE ELEVATION 58



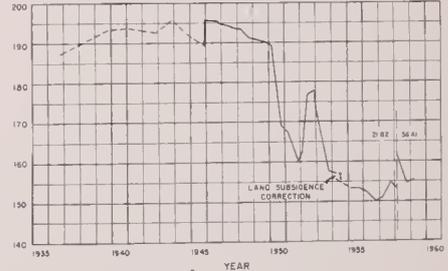
SAN JOAQUIN VALLEY (5-2200)
NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 275/25E-22R, M O B M
GROUND SURFACE ELEVATION 192



SAN JOAQUIN VALLEY (5-2200)
AVALON-MCKITTRICK AREA (5-22.44)
WELL 255/18E-200E, 285/18E-24L, M O B M
GROUND SURFACE ELEVATION 462.950



SAN JOAQUIN VALLEY (5-2200)
ALPUGH-ALLENWORTH AREA (5-22.34)
WELL 245/25E-20E, 235/24E-36R, M O B M
GROUND SURFACE ELEVATION 100.294

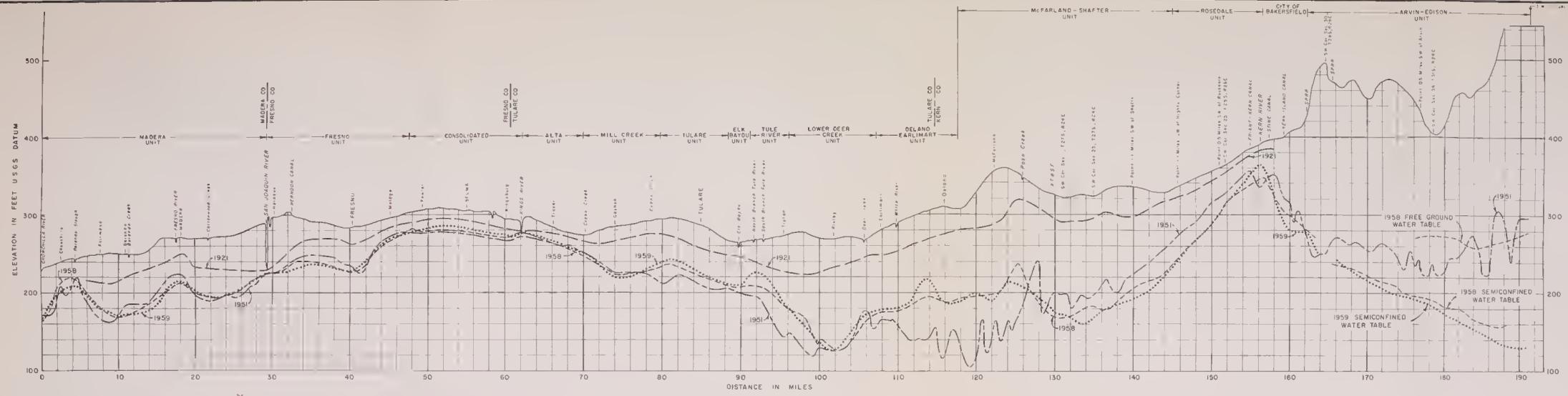


NOTE --- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

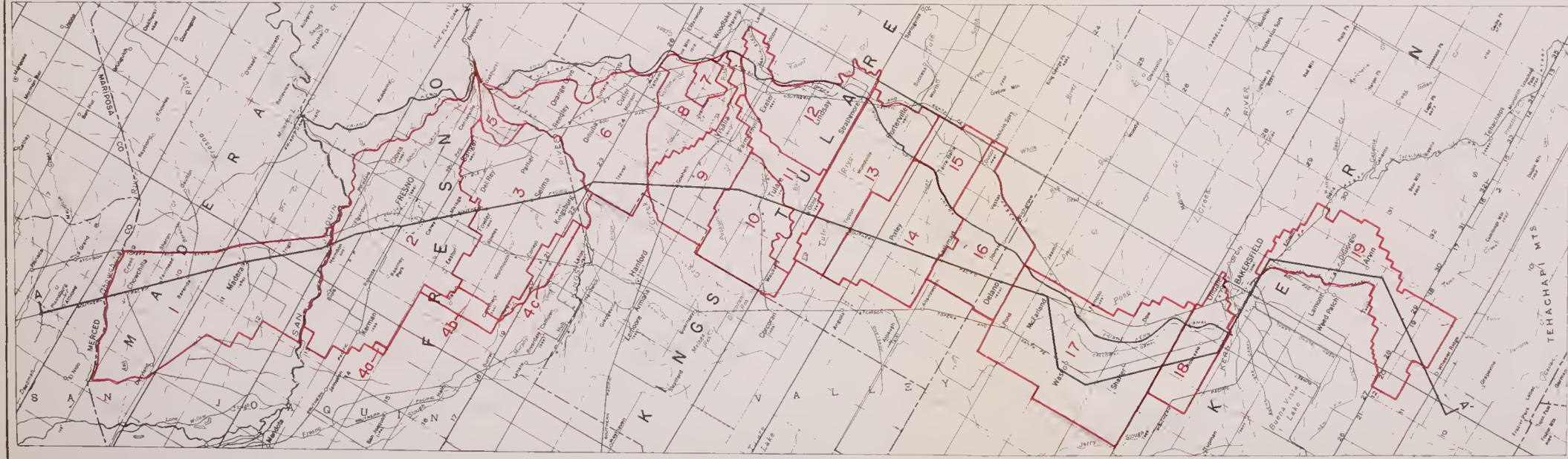
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

FLUCTUATION OF WATER LEVEL
IN WELLS IN SOUTHERN SAN JOAQUIN VALLEY
CENTRAL VALLEY REGION

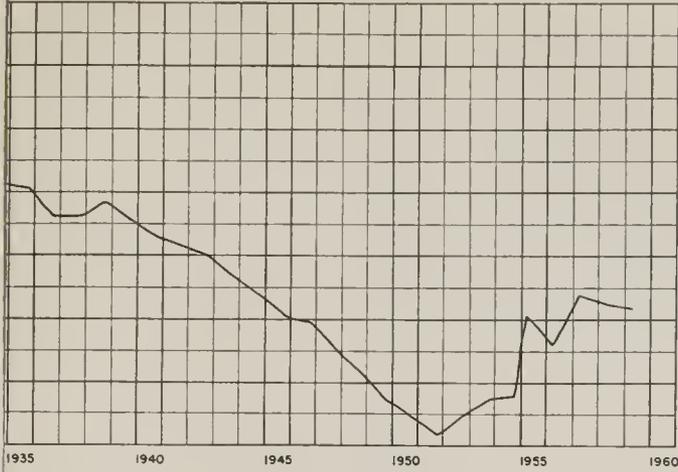
STATISTICAL



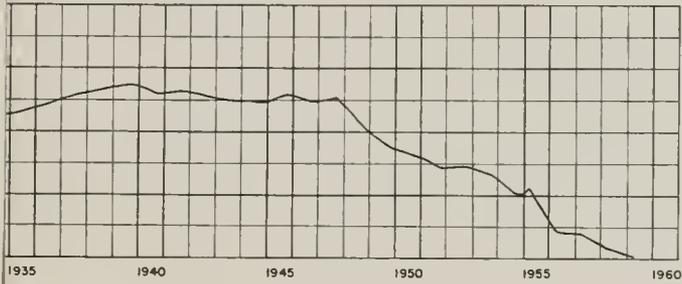
- HISTORIC GROUND WATER UNITS
- 1 MADERA
 - 2 FRESNO
 - 3 CONSOLIDATED
 - 4 FRESNO(2) CONSOLIDATED(3) AND OUTSIDE AREA (4a, 4b, 4c)
 - 5 CENTERVILLE BOTTOMS
 - 6 ALTA
 - 7 IVANHOE
 - 8 OUTSIDE IVANHOE
 - 9 MILL CREEK
 - 10 TULARE
 - 11 ELK BAYOU
 - 12 LINDSAY - EXETER
 - 13 TULE RIVER
 - 14 LOWER DEER CREEK
 - 15 MIDDLE DEER CREEK
 - 16 DELAND - EARLHART
 - 17 McFARLAND - SHAFTER
 - 18 ROSEDALE
 - 19 ARVIN - EDISON



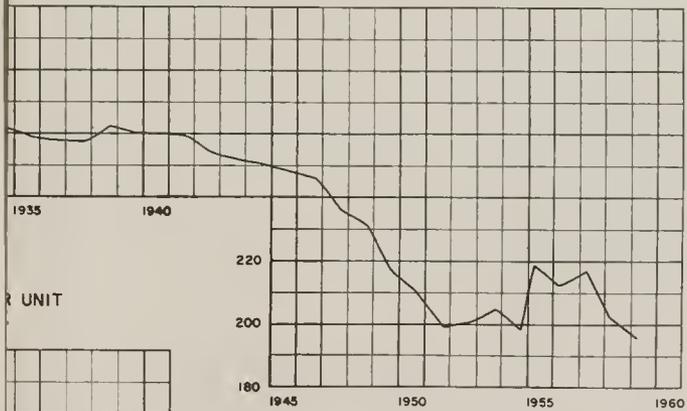
MO-EARLIMART GROUND WATER UNIT
 AREA 140.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 371'



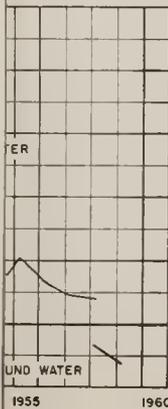
ROSEDALE GROUND WATER UNIT
 AREA 78.88 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'



RLAND-SHAFTER GROUND WATER UNIT
 AREA 306.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 340'



R UNIT



NOTE: SEE PLATE B FOR GROUND WATER UNIT LOCATION

STATE OF CALIFORNIA
 DEPARTMENT OF WATER RESOURCES
 DIVISION OF RESOURCES PLANNING

GROUND WATER CONDITIONS
 IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59

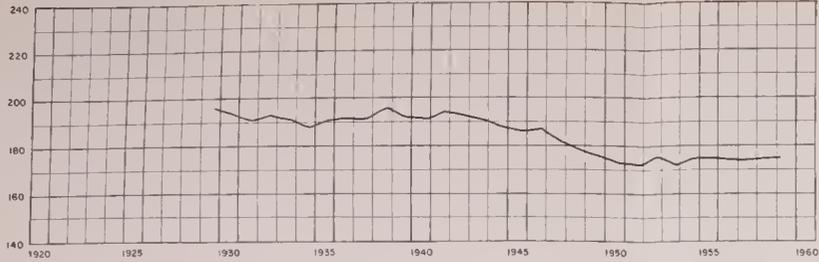
FLUCTUATION OF AVERAGE WATER LEVEL,
 1921 TO 1959, IN 19 GROUND WATER UNITS
 IN SAN JOAQUIN VALLEY

ELEVATION IN FEET - SUMMARY

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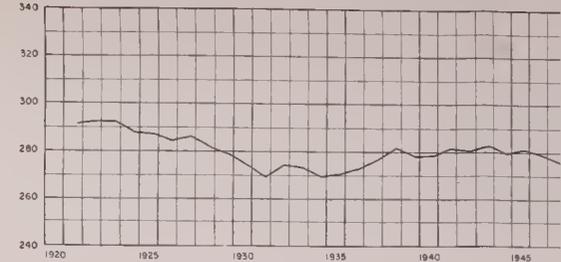
MADERA GROUND-WATER UNIT
AREA 342.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 230'



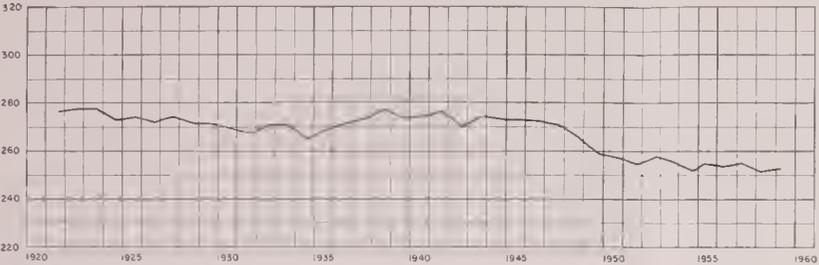
CENTERVILLE BOTTOMS GROUND WATER UNIT
AREA 18.15 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'



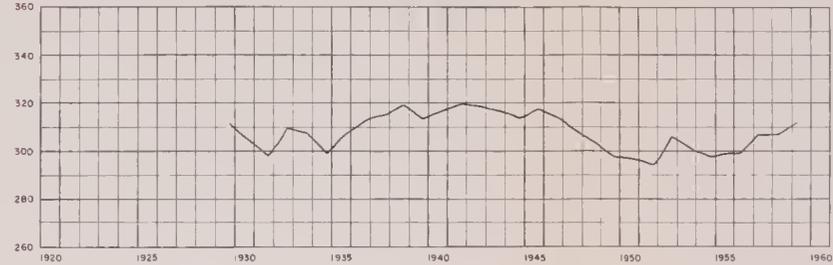
MILL CREEK GROUND WATER UNIT
AREA 128.25 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'



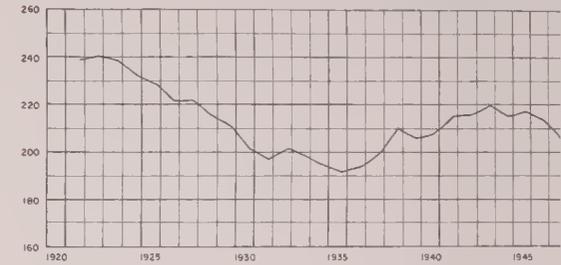
FRESNO GROUND WATER UNIT
AREA 404.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 331'



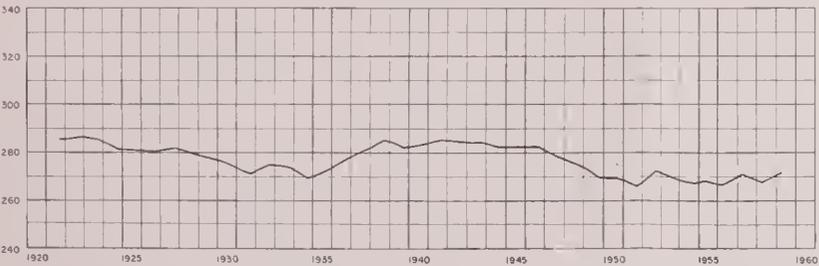
ALTA GROUND WATER UNIT
AREA 190.95 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 337'



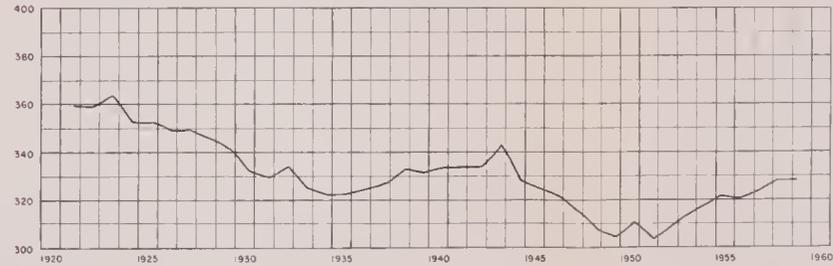
TULARE GROUND WATER UNIT
AREA 12.07 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 263'



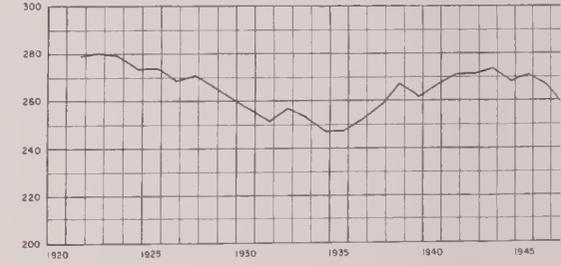
CONSOLIDATED GROUND WATER UNIT
AREA 243.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 316'



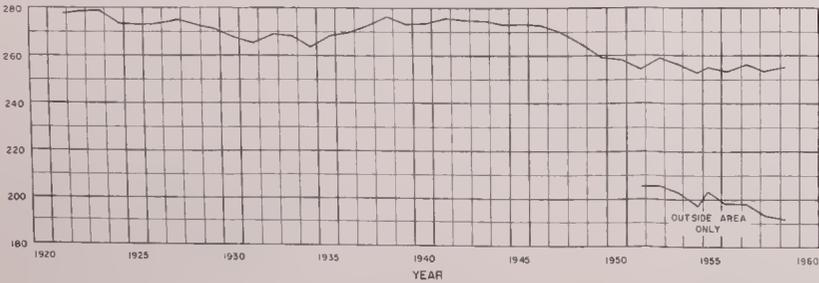
IVANHOE GROUND WATER UNIT
AREA 17.37 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 385'



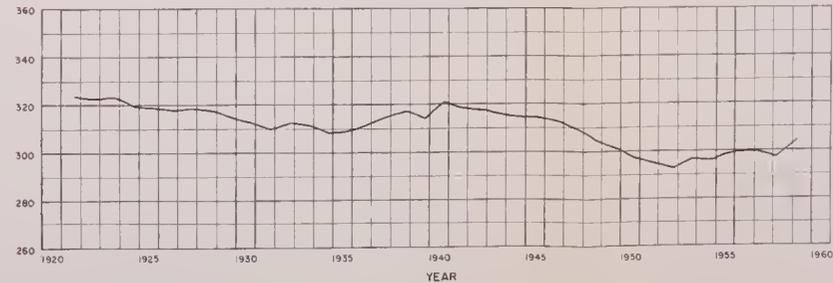
ELK BAYOU GROUND WATER UNIT
AREA 67.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 293'



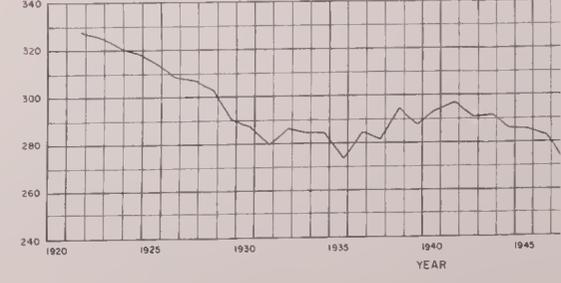
FRESNO-CONSOLIDATED OUTSIDE GROUND WATER UNIT
AREA 700.11 SQUARE MILES
AREA 65.11 SQUARE MILES (OUTSIDE AREA ONLY)
AVERAGE GROUND SURFACE ELEVATION 289'
AVERAGE GROUND SURFACE ELEVATION 247' (OUTSIDE AREA ONLY)



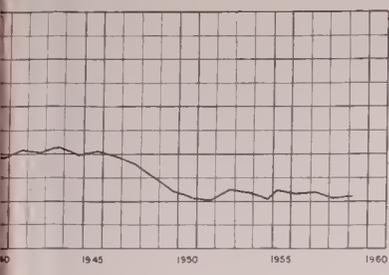
OUTSIDE IVANHOE GROUND WATER UNIT
AREA 76.65 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 343'



LINDSAY-EXETER GROUND WATER UNIT
AREA 126.43 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 377'



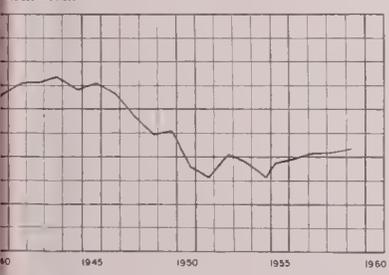
GROUND WATER UNIT
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'



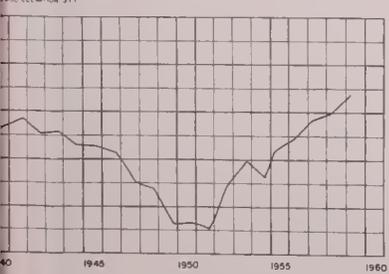
GROUND WATER UNIT
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'



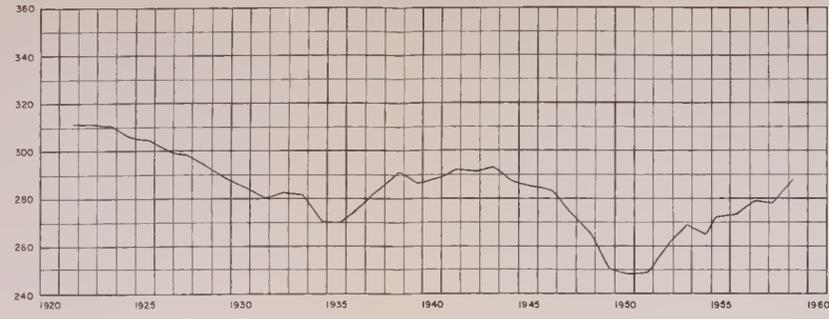
GROUND WATER UNIT
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'



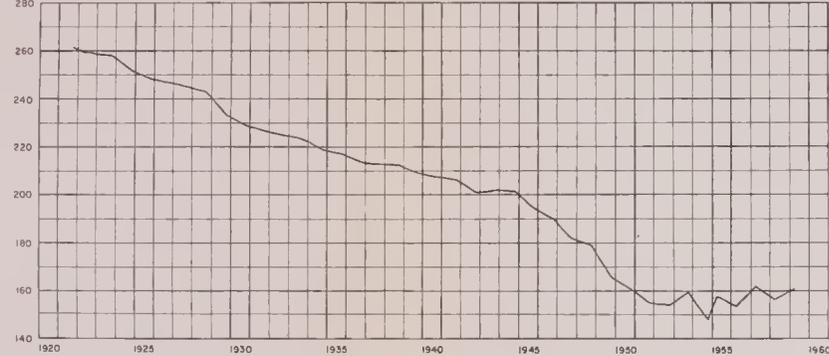
GROUND WATER UNIT
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'



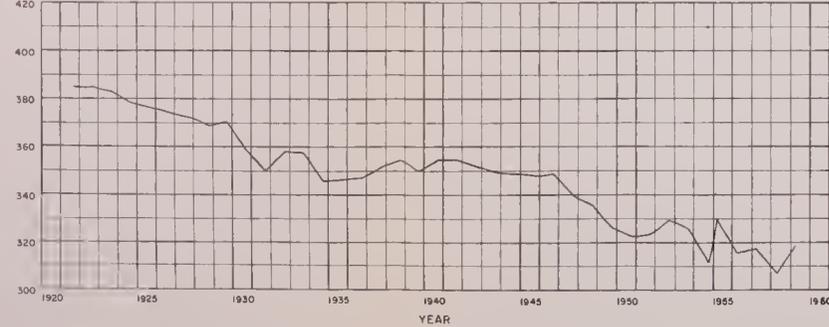
TULE RIVER GROUND WATER UNIT
AREA 155.9 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 339'



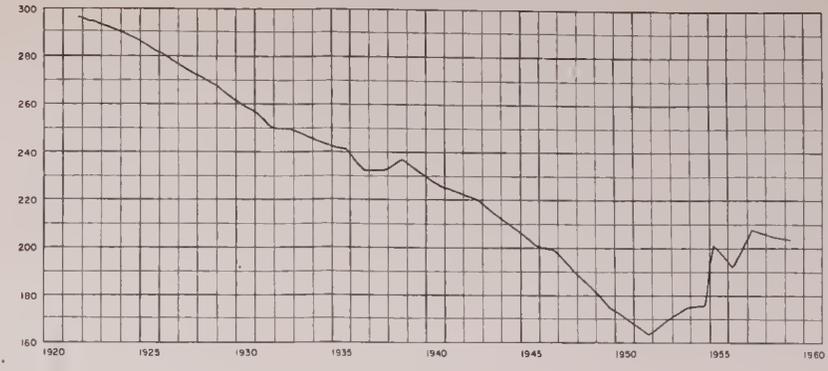
LOWER DEER CREEK GROUND WATER UNIT
AREA 162.22 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 297'



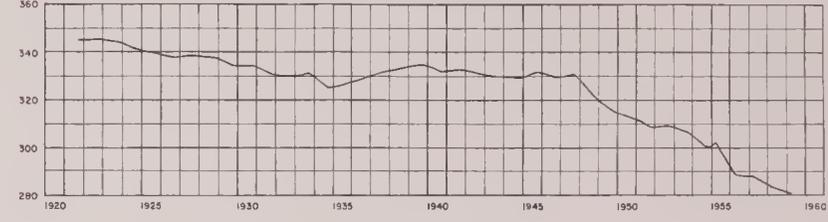
MIDDLE DEER CREEK GROUND WATER UNIT
AREA 54.28 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 410'



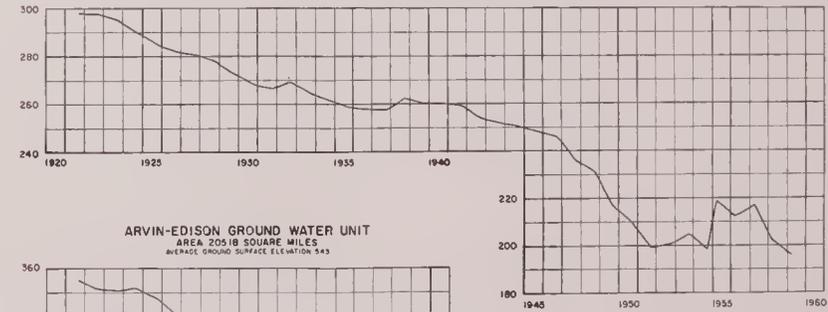
DELANO-EARLIMART GROUND WATER UNIT
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 374'



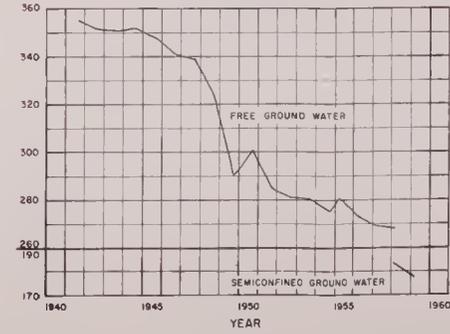
ROSEDALE GROUND WATER UNIT
AREA 79.88 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 353'



Mc FARLAND-SHAFTER GROUND WATER UNIT
AREA 305.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 340'



ARVIN-EDISON GROUND WATER UNIT
AREA 205.18 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 543'



NOTE: SEE PLATE 8 FOR GROUND WATER UNIT LOCATION

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
GROUND WATER CONDITIONS
IN CENTRAL AND NORTHERN CALIFORNIA, 1958-59
FLUCTUATION OF AVERAGE WATER LEVEL,
1921 TO 1959, IN 19 GROUND WATER UNITS
IN SAN JOAQUIN VALLEY

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