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STATE OF CALIFORNIA

Department of Water Resources

SACRAMENTO

November 29, 1957

CALIFORNIA COOPERATIVE SNOW SURVEY PROGRAM

WATER CONDITIONS IN CALIFORNIA

FALL OF 1957

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The intention of this report is to give a general picture of water conditions in California at the end of the 1957 runoff season and prior to the season of major precipitation and snowpack accumulation. Major factors considered are the previous season's runoff and precipitation and the current status of reservoir storage and ground-water elevations. These factors are treated separately herein, and are followed by tables of representative data. Data contained in this report were furnished by many public and private agencies cooperating in the California Snow Surveys Program; their cooperation is appreciated.

Water supplies during the 1956-57 season were generally adequate in those areas of California north of the Tehachapi Mountains, but continued to be short in those portions to the south. Precipitation over the State averaged about 80% of normal, but was abnormally distributed. Runoff in Central and South Coastal streams was far below normal, but was about 80% of normal in the Central Valley where nearly all major reservoirs filled during the runoff season. Fall ground-water measurements in most major basins in California indicated significant lowering of the water table from the previous year.

The first few months of the 1957-58 season have been unusually wet, with some rainfall stations reporting several times the normal catch for the season to date. Carry-over reservoir storage is also above average, and on October 1, 1957, was about at the same level as last year. Even if rainfall, snowpack, and consequent runoff during the coming winter are somewhat below normal, the large amount of carry-over reservoir storage should produce favorable water supplies during 1958 for those uses served by stored water.

Precipitation

Rainfall during the 1956-57 season was below normal over most of the State, with normal or above normal rain recorded at only a few stations in the North Coastal Area and at higher elevations in the Central Sierra. Seasonal rainfall in California ranged from about 40% of normal in the Colorado Desert Area to about 95% of normal in the North Coastal Area. Over the entire State, 1956-57 rainfall averaged about 80% of normal. However, monthly distribution was far from normal. A prolonged drought affected most of California from November until mid-January, but was partially offset by heavy precipitation in May. In many places, these May rains were the heaviest ever recorded for the month.

Rainfall for the first four months of the 1957-58 season was well above normal for nearly all parts of the State.

In the Sacramento Valley, average rainfall as of November 1, 1957, was about 250% of normal. Reported values with respect to the November 1 normal ranged from 640% at East Park Reservoir on the west side of the Valley to a low of 158% of normal at Lake Spaulding. The station reporting the greatest amount of rainfall to date in the entire State was Vollmers in Shasta County with 22.03 inches, which is 407% of normal for that location.

The San Joaquin Valley had received about 120% of normal rainfall as of November 1, with the amounts at reported stations varying from about 80% in Alpine County to 186% at Bakersfield.

Along the coast from Eureka to San Diego, 1957-58 rainfall has averaged about 200% of normal, with San Francisco receiving 4.34 inches of rain which, at 395%, represents the highest precentage of normal reported.

The interior drainage area has received about 200% of the expected amount for this time of the year, with about normal rainfall in the Colorado Desert Area.

Reservoir Storage

In the Central Valley Area, all reservoirs, with the exception of Isabella on the Kern and Monticello on Putah Creek, filled during the 1957 runoff period.

This was a major factor in producing the situation of adequate water supply that existed in the Central Valley during the 1957 irrigation season.

At the present time, reservoir storage is at a high level in all hydrographic areas of the State, except the South Coastal Area. Reports of water in storage have been received from operators of 92 of the major reservoirs in or adjacent to California, representing over 94% of the total usable storage capacity. Water in storage in these 92 reservoirs on October 1 was 118 per cent of the 10-year average for that date and is generally equivalent to the storage occurring on October 1, 1956. Reservoir storage data are summarized in Table 1 and listed in Table 2.

Runoff

The extremely heavy May precipitation which occurred in most portions of the State resulted in significant increases to the runoff of streams of the Central Valley, North Coastal, and Lahontan Areas. In most instances, both April-July and seasonal runoff for the above-mentioned hydrographic areas was 10 to 20% higher than that anticipated on May 1. Available stream flow data for selected California streams for both the April-July period and for the water year are given in Table 3.

Seasonal runoff of streams in the San Francisco Bay, Central and South Coastal Areas was much below normal. In the Central and South Coastal Areas, for example, estimated seasonal flows ranged from 3% of average on the Huasna River near Santa Maria to 38% of average on the Santa Ana River near Mentone.

Ground Water

Recent measurements of ground-water levels in approximately 750 wells in the Sacramento Valley indicate that water levels generally are lower than they were in the fall of 1956. Typical declines in water levels, as compared to levels in the fall of 1956, ranged from one foot lower in the Capay Valley to as much as 10 to 15 feet lower in northern Solano County. However, water levels in the fall of 1956 were generally higher than those for preceding years, and a continuing downward trend does not necessarily exist.

Available data indicate that ground-water levels in the San Joaquin Valley are, on the average, somewhat lower than in the fall of 1956. Typical declines in water levels, as compared to levels one year ago, are as follows: Five feet lower in San Joaquin County; two feet lower in Fresno and Kings Counties; and 35 feet lower in the area of the North Kern Water Storage District. In this latter area, however, fall of 1956 levels were about 18 feet higher than in the fall of 1955. Increases ranging from 12 to 22 feet were noted this year in some areas which receive imported water supplied from the Friant-Kern Canal.

In southern California, ground-water levels at key wells continued to drop, and many of these elevations are now at a historical low.

Table 4 summarizes results of fall ground-water measurements in the Sacramento and San Joaquin Valleys, while Table 5 gives depths to ground water at key wells in selected southern California basins.

TABLE 1

SUMMARY OF STORAGE IN MAJOR RESERVOIRS

Area	Reservoirs Reported	Total Usable Capacity Acre-Feet	Water in Storage Oct. 1, 1957 Acre-Feet	October 1, 1957, Water Storage in Per Cent of		
				10-Yr. Average	Usable Capacity	Oct. 1, 1956 Water Storage
Intrastate Reservoirs						
North Coastal	2	165,720	65,760	117	40	105
San Francisco	11	418,380	233,640	114	56	78
Central Coastal	3	312,100	64,230	138	21	131
South Coastal	21	1,057,090	170,610	70	16	109
North Central Valley	16	8,626,520	5,047,450	113	59	97
South Central Valley	25	4,753,120	1,921,170	110	40	87
Lahontan	7	347,870	264,950	113	76	88
Subtotal	85	15,680,800	7,767,810	115	50	95
Interstate Reservoirs						
North Coastal	3	1,135,390	579,300	128	51	77
Lahontan	3	774,450	586,000	132	76	89
Colorado Desert	1	27,207,000	21,522,000	125	79	168
Subtotal	7	29,116,840	22,687,300	125	78	160
Total	92	44,797,640	30,455,110	118	68	136

TABLE 2

WATER CONTENT OF MAJOR STORAGE RESERVOIRS

October 1

Watershed	Reservoir	Operator	10-Year Mean 1947-56 (Acre-feet)	Usable Capacity (Acre-feet)	Water in Storage (Acre-feet) 1956	Water in Storage (Acre-feet) 1957	1957 Storage in Per Cent of 10 Year Mean
NORTH COASTAL AREA							
Klamath River	Clear Lake 1/	U. S. Bureau of Reclamation	182,720	513,320	349,820	294,760	161
	Gerber 1/	U. S. Bureau of Reclamation	24,350	94,270	44,150	43,860	180
	Upper Klamath Lake 1/	U. S. Bureau of Reclamation	245,430	524,800	351,250	240,680	98
Shasta River	Shasta R. (Dwinnell)	Montague Water Con. District	6,480	72,000	19,930	12,000	185
South Eel River	Scott (Lake Pillsbury)	Pacific Gas & Electric Co.	49,910	93,720	42,940	53,760	108
SAN FRANCISCO BAY AREA							
Conn Creek	Conn Creek Dam	City of Napa	23,980	30,500	25,700	N. R.	
Lagunitas Creek	Kent	Marin Muni. Water District	4/	16,500	13,810	14,000	---
San Pablo Creek	San Pablo Dam 2/	East Bay M.U.D.	27,990	43,170	29,730	25,860	93
San Leandro Creek	Upper San Leandro 2/	East Bay M.U.D.	22,790	41,400	32,990	25,910	114
	Chabot 2/	East Bay M.U.D.	6,910	12,550	10,800	10,450	151
Calaveras Creek	Calaveras 2/	City & Co. of San Francisco	44,090	96,820	67,770	52,020	118
Laguna Creek	Upper Crystal Springs) 2/	City & Co. of San Francisco)	45,970	58,380	53,170	54,630	119
San Mateo Creek	Lower Crystal Springs)	City & Co. of San Francisco)					
San Andreas Creek	San Andreas 2/	City & Co. of San Francisco	16,970	19,000	18,040	15,340	91
Coyote Creek	Coyote	(Santa Clara Valley)	4,370	24,560	14,270	8,600	197
	Leroy Anderson	(Water Conservation District)	4/	75,000	51,330	25,290	---
Los Gatos Creek	Austrian	San Jose Water Works	4/	6,000	2,750	1,540	---
	Lexington	Santa Clara Valley Water Conservation District	4/	25,000	6,240	0	---
CENTRAL COASTAL AREA							
Salinas River	Salinas	San Luis Obispo Co. Flood Control & Water Conservation District	12,620	26,000	19,600	N. R.	
	Nacimento	Monterey Co. Flood Control & Water Conservation District	4/	100,000	---	17,000	---
Santa Ynez River	Gibraltar	City of Santa Barbara	7,660	15,600	12,300	10,600	138
	Cachuma	U. S. Bureau of Reclamation	4/	206,500	36,630	36,630	
SOUTH COASTAL AREA							
Piru Creek	Lake Piru	United Water Con. District	4/	100,000	2,000	800	
Bear Creek	Bear Valley	Bear Valley Mutual Water Co.	15,100	72,170	2,840	1,950	
San Jacinto River	Lake Hemet	Lake Hemet Water Company	750	13,440	280	320	42
Temecula Creek	Vail	Vail Company	4/	49,500	N. C.	0	
San Gabriel River	Morris	Metropolitan Water District	24,310	35,170	24,300	22,150	91
Tributary Cajalco Cr.	Lake Mathews 2/	Metropolitan Water District	81,620	100,000	59,840	76,100	93
San Luis Rey River	Henshaw	Vista Irrigation District	20,610	194,320	1,140	1,120	5

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TABLE 2

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October 1

Watershed	Reservoir	Operator	10-Year Mean 1947-56 (Acre-feet)	Usable Capacity (Acre-feet)	Water in Storage (Acre-feet) 1956	Water in Storage (Acre-feet) 1957	1957 Storage in Per Cent of 10-Year Mean
SOUTH COASTAL AREA (Cont'd)							
Boulder Creek	Cuyamaca	LaMesa, Lemon Grove & Spring Valley Irrigation District	10	11,600	0	0	0
Sweetwater River	Lake Loveland	California Water & Telep. Co.	2,130	25,250	1,550	1,660	78
	Sweetwater (Main)2/	California Water & Telep. Co.	5,740	27,150	5,880	4,440	77
City of San Diego	Municipal Reservoirs2/3/	City of San Diego	89,830	399,530	57,950	606,300	69
Santa Ysabel Creek	Sutherland	City of San Diego	4/	29,000	1,860	1,440	-
NORTH CENTRAL VALLEY AREA							
Sacramento	Shasta	U. S. Bureau of Reclamation	2,890,220	4,500,000	3,568,500	3,484,900	121
Feather	Mountain Meadows	Pacific Gas & Electric Co.	5,600	24,000	5,760	6,630	118
	Lake Almanor	Pacific Gas & Electric Co.	466,170	649,800	528,730	527,130	113
	Bucks Storage	Pacific Gas & Electric Co.	68,390	101,700	57,880	56,530	83
	Butt Valley	Pacific Gas & Electric Co.	35,820	49,900	40,930	24,920	70
Yuba	Bowman Lake	Nevada Irrigation District	43,450	69,400	56,980	48,800	112
	Scotts Flat	Nevada Irrigation District	4/	26,800	11,370	7,500	-
	Spaulding System	Pacific Gas & Electric Co.	85,290	137,400	94,320	83,290	98
Bear	Combie	Nevada Irrigation District	1,540	7,200	3,220	1,700	110
American	Twin Lakes	Pacific Gas & Electric Co.	15,590	21,580	19,450	13,970	90
	Silver Lake	Pacific Gas & Electric Co.	3,010	8,590	3,690	1,940	53
	Folsom	U. S. Bureau of Reclamation	4/	1,010,300	533,400	534,600	-
Stony Creek	East Park	U. S. Bureau of Reclamation	15,200	50,800	19,610	13,220	87
	Stony Gorge	U. S. Bureau of Reclamation	5,510	50,050	9,550	10,030	182
Cache Creek	Clear Lake	Clear Lake Water Co.	55,370	319,000	115,600	120,000	217
Putah Creek	Berryessa	U. S. Bureau of Reclamation	4/	1,600,000	0	112,300	-
SOUTH CENTRAL VALLEY AREA							
Consumnes	Sly Park	U. S. Bureau of Reclamation	4/	41,000	33,950	31,410	-
Mokelumne	Lower Bear River	Pacific Gas & Electric Co.	4/	48,500	30,990	28,890	-
	Salt Springs	Pacific Gas & Electric Co.	89,660	140,000	108,690	99,900	111
	Pardee	East Bay M.U.D.	182,010	210,000	183,660	170,630	94
Stanislaus	Relief	Pacific Gas & Electric Co.	8,000	15,550	10,330	15,560	195
	Strawberry	Pacific Gas & Electric Co.	10,210	18,270	10,650	10,430	101
	Donnell's	Oakdale & So.San Joaquin I.D.	4/	68,000	0	62,900	-
	Beardsley	Oakdale & So.San Joaquin I.D.	4/	90,000	0	33,830	-
	Melones	Pacific Gas & Electric Co.	9,120	112,600	3,280	10,580	116
Tuolumne	Lake Eleanor	City & Co.of San Francisco	10,090	26,100	1,430	2,450	24
	Hetch Hetchy	City & Co.of San Francisco	248,250	360,400	306,450	263,600	106
	Cherry Valley	City & Co.of San Francisco	4/	268,000	93,480	104,130	-
	Don Pedro	Turlock & Modesto I.D.	101,440	260,000	147,020	169,260	167
	Owen	Turlock & Modesto I.D.	15,210	49,000	22,780	23,760	156
	Dallas Warner	Modesto Irrigation District	7,120	27,000	13,300	9,400	132
Merced	Lake McClure	Merced Irrigation District	37,020	280,900	130,460	18,800	51

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TABLE 2

WATER CONTENT OF MAJOR STORAGE RESERVOIRS

October 1

Watershed	Reservoir	Operator	10-Year mean 1947-56 (Acre-feet)	Useable Capacity (Acre-feet)	Water in Storage (Acre-feet) 1956	Water in Storage (Acre-feet) 1957	1957 Storage in Per Cent of 10 Year Mean
SOUTH CENTRAL VALLEY AREA (Cont'd)							
San Joaquin	Crane Valley	Pacific Gas & Electric Co.	24,870	45,400	25,900	25,430	102
	Vermilion Valley	Southern California Edison Co.	4/	125,000	105,000	93,920	---
	Florence Lake	Southern California Edison Co.	26,420	64,400	43,290	35,520	134
	Huntington Lake	Southern California Edison Co.	74,100	89,200	64,670	87,220	118
	Shaver Lake	Southern California Edison Co.	81,090	135,300	112,720	65,300	81
	Millerton Lake (Friant)	U. S. Buearu of Reclamation	137,400	520,500	192,700	159,000	116
Kings	Pine Flat	U. S. Corps of Engineers	4/	1,001,000	405,790	291,760	---
Kern	Isabella	U. S. Corps of Engineers	4/	552,000	153,730	107,490	---
	Buena Vista	Buena Vista Associates	1,700	205,000	0	0	0
LAHONTAN AREA							
Truckee River	Lake Tahoe 1/	U. S. Bureau of Reclamation	431,320	732,000	631,200	575,000	133
Little Truckee	Boca 1/	U. S. Bureau of Reclamation	16,840	41,050	4,050	N. R.	---
E. Walker River	Bridgeport 1/	Walker River I. D.	12,090	42,450	27,400	11,000	91
Leevining Creek	Saddlebag Lake	Calif. Electric Power Co.	7,000	11,140	N. R.	6,740	~~96~~
Rush Creek	Gem Lake	Calif. Electric Power Co.	10,800	17,600	N. R.	2,680	~~24~~
	Grant Lake	City of Los Angeles	34,250	47,530	47,090	45,680	133
Owens River	Long Valley 2/ (Lake Crowley)	City of Los Angeles	129,700	183,470	183,470	162,670	125
	Tinemaha 2/	City of Los Angeles	4,890	16,410	6,710	8,830	181
Bishop Creek	Hillside (South Lake)	Calif. Electric Power Co.	10,550	13,190	N. R.	12,400	~~116~~
Rose Valley	Haiwee (South) 2/	City of Los Angeles	36,260	58,530	38,200	25,950	72
COLORADO DESERT AREA							
Colorado River	Lake Mead 1/	U. S. Bureau of Reclamation	18,182,700	7,207,000	12,791,000	21,522,000	119

1/ Interstate Reservoir Used Jointly by California and Adjacent States
2/ Includes Foreign Water
3/ Combined Storage for 10 Reservoirs in Full Operation During 10-year Period
4/ Not in Complete Operation for Full Period

TABLE 3

NATURAL FLOW OF SELECTED STREAMS IN CALIFORNIA
1956-57

(All Records Preliminary and Subject to Revision)

Area, Stream, and Station	Water-Year Runoff (October-September)		April Through July Runoff	
	1,000 Ac. Ft.	Per Cent of Av.	1,000 Ac. Ft.	Per Cent of Av.
North Coastal Area				
Trinity River near Lewiston	1,081	89	585	90
Central Coastal Area				
Huasna River near Santa Maria	17	3	-	-
South Coastal Area				
Arroyo Seco near Pasadena	99	15	-	-
Santa Ana near Mentone	40	38	-	-
Sespe Creek near Fillmore	64	29	-	-
Central Valley Area				
Sacramento River, inflow to Shasta Dam	5,369	97	1,910	103
Feather River near Oroville	3,490	79	1,541	75
Yuba River at Smartville	1,947	84	1,011	87
American River at Fair Oaks	2,167	80	1,230	85
Mokelumne River near Mokelumne Hill	615	83	422	83
Stanislaus River below Melones Powerhouse	882	76	648	83
Tuolumne River above La Grange	1,421	77	1,029	81
Merced River at Exchequer	647	66	490	75
San Joaquin River below Friant	1,337	76	1,031	81
Kings River at Piedra	1,249	75	1,011	81
Kaweah River near Three Rivers	295	72	231	83
Tule River near Porterville	54	53	33	67
Kern River near Bakersfield	455	64	292	62

TABLE 4

GROUND WATER DATA - CENTRAL VALLEY
FALL, 1957

Area and Ground Water Unit	County	Source of 1/ Data	Wells Reported	Depth to Ground Water Fall, 1957 in Feet			Average Change Ground Water Fall, 1956 to Fall, 1957 in Feet
				Maximum	Minimum	Average	
Sacramento Valley							
Tehama County	-	DWR	16	79.3	7.1	41.8	-1.6
Glenn County	-	DWR	26	76.3	1.3	20.1	+0.4
Butte County	-	DWR	50	129.7	2.4	22.9	+0.8
Colusa County	-	DWR-USBR-CC	52	134.5	2.6	24.4	-1.3
Sutter County	-	SC	101	69.0	4.0	23.1	-3.3
Placer County	-	DWR	7	63.4	7.9	35.2	+1.0
Yuba County	-	YC	64	78.9	9.3	37.1	-2.7
Yolo County	-	YoC-USBR	276	124.7	4.5	32.6	-3.2
Capay Valley	Yolo	YoC	37	85.1	8.4	27.1	-1.1
Solano County	-	DWR	114	100.6	6.8	47.9	-5.5
Putah Creek Cone	Solano-Yolo	YoC-DWR	114	141.1	4.0	48.0	-4.6
Sacramento County	-	DWR	60	122.3	3.9	37.2	-0.7
San Joaquin Valley							
Calaveras River	San Joaquin	DWR-CWSC	92	147.5	12.5	66.9	-6.3
Farmington-Collegeville Area	San Joaquin	DWR	39	87.3	11.4	53.8	-4.0
Mokelumne River	San Joaquin	DWR	48	149.1	5.0	46.3	No fall 1956 measurements.
Tracy Area	San Joaquin	DWR	21	106.7	2.5	32.2	No fall 1956 measurements.
Chowchilla Water District	Madera	CWD-USBR		Measured in December			
Madera Irrigation District	Madera	MID-USBR		Measured in December			
Fresno Irrigation District	Fresno	FID	98	75.0	10.5	43.1	-3.4
City of Fresno	Fresno	COF	53	75.0	51.6	62.4	-1.5
Fresno Slough Area	Fresno	USBR-DWR	162	101.4	5.8	40.3	-1.5
Consolidated Irrigation District	Fresno	CID	82	63.6	15.4	34.9	-3.5
Lower Kings River Area	Kings	DWR	68	62.1	4.5	21.0	-1.8
Alta Irrigation District	Fresno-Tulare	AID	161	78.1	8.8	27.5	-2.2
Orange Cove Irrigation District	Fresno-Tulare	OCID-USBR		No measurements available			

TABLE 4 - GROUND WATER DATA - CENTRAL VALLEY, FALL, 1957 (Continued)

Ground Water Unit	County	Source of 1/ Data	Wells Reported	Depth to Ground Water Fall, 1957 in Feet			Average Change Ground Water Fall, 1956 to Fall, 1957 in Feet
				Maximum	Minimum	Average	
y (Continued)							
rigation District	Tulare	SCID-USBR	12	54.5	5.0	28.3	-2.3
ion District	Tulare	IID-USBR	34	81.2	19.1	60.1	-1.8
ter Conservation District	Tulare	KDWCD-USBR		No measurements available			
on District	Tulare	TID-USBR	87	100.5	33.9	73.6	-3.7
on District	Tulare	EID-USBR	10	106.0	31.4	60.6	-0.4
ore Irrigation District	Tulare	LSID-USBR	18	104.5	5.6	63.9	+3.6
tion District	Tulare	LID-USBR	160	132.0	40.0	98.0	+4.5
r Irrigation District	Tulare	LTRID-USBR	154	166.4	6.1	78.5	-6.7
igation District	Tulare	PID-USBR	23	155.7	25.7	59.8	-1.8
ation District	Tulare	SID		No measurements available			
t Irrigation District	Tulare-Kern	DEID-USBR	62	390.0	81.0	193.9	+22.1
aquin Municipal							
ict	Kern	SSJMUD-USBR	39	361.4	70.0	189.1	+12.2
er Storage District	Kern	BVWSD	31	173.7	21.3	32.6	-2.7
eld	Kern	CWSC	31	274.0	31.0	118.5	-8.2
eler Ridge Area	Kern	USBR-DWS	64	426.8	31.9	233.2	-6.0
Storage District	Kern	KCL Co.	47	340.8	103.5	215.5	-35.4
rrigation District	Kern	SWID-USBR	24	226.0	108.4	163.2	-5.4
	Kern	USBR-DWR	40	181.9	16.8	62.8	-4.1

igation District; BVWSD - Buena Vista Water Storage District; CC - Colusa County; CID - Consolidated Irri-
t; COF - City of Fresno; CWD - Chowchilla Water District; CWSC - California Water Service Company; DEID -
rt Irrigation District; DWR - Department of Water Resources; EID - Exeter Irrigation District; FID - Fresno
trict; IID - Ivanhoe Irrigation District; KCLC - Kern County Land Company; KDWCD - Kaweah Delta Water
istrict; LID - Lindmore Irrigation District; LSID - Lindsey Strathmore Irrigation District; LTRID - Lower
igation District; MID - Madera Irrigation District; OCID - Orange Cove Irrigation District; PID -
rigation District; SC - Sutter County; SCID - Stone Corral Irrigation District; SID - Saucelito Irrigation
UD - Southern San Joaquin Municipal Utility District; SWID - Shafter Wasco Irrigation District; TID - Tulare
trict; USBR - United States Bureau of Reclamation; YC - Yuba County; YoC - Yolo County.

TABLE 5

CHANGES IN GROUND-WATER ELEVATIONS
AT REPRESENTATIVE WELLS IN SOUTHERN CALIFORNIA

In Feet

Area and Ground Water Unit	Well Number	R. P. Elevation	Beginning of Record	Depths to Ground Water: Oct. 1957	Depths to Ground Water: Month Previous	Depths to Ground Water: Year Previous	Changes in Elevation: During Month	Changes in Elevation: During Year	Date and Extreme Ground Water Elevation of Record: Maximum	Date and Extreme Ground Water Elevation of Record: Minimum
a Clara River Valley										
nard Plain Basin	1N/21W-19A1 (North of Point Mugu)	23.2	1929	73.3	74.4	64.0	+1.1	-9.3	1941-1944 Flowing	8-1-57 -51.3
	1N/22W-3F4	54.5	1916	86	84	81	-2	-5	2-1-23 Flowing	9-28-57 -31
nard Forebay Basin	2N/22W-23H3	109.8	1945	115.8	114.5	-	-1.3	-	4-24-46 64.1	9-25-57 -6.0
Gabriel Valley										
in San Gabriel Basin	3030F (Baldwin Park Well)	387.7	1932	148.5	148.3	142.9	-0.2	-5.6	7-5-44 325.2	10-30-57 293.2
	2911D (E. of Alhambra	355.85	1942	156.7	159.3 1/	-	+2.6	-	5-3-44 264.5	8-14-57 191.8
tal Plain, Los Angeles unty										
ntebello Forebay Area	1620E	181.69	1904	130	131	124	+1	-6	4-1-44 164.7	10-21-57 48
ntral Coastal Plain Pressure Area	906D (N. of Long Beach)	90.5	1932	193.6	199.4	194.0	+5.8	+0.4	4-5-33 15.4	9-16-57 -108.9
	2626H (N.E. of Culver City	88	1944	203	205	192	+2	-11	3-7-46 8	9-7-57 -117
st Coast Basin	833A (North of trough)	46.8	1930	113.6	118.4	115.8	+4.8	+2.2	3-23-38 -19.34	7-30-57 -73.0
	858B (Trough area)	35	1924	122.8	128.6	126.1	+5.8	+3.3	4-11-24 -10.0	7-31-53 -103.5

TABLE 5 - CHANGES IN GROUND-WATER ELEVATIONS AT REPRESENTATIVE WELLS IN SOUTHERN CALIFORNIA (Continued)

In Feet

l Unit	Well Number	R. P. Elevation	Beginning of Record	Depths to Ground Water: Oct. 1957	Depths to Ground Water: Month Previous	Depths to Ground Water: Year Previous	Changes in Elevation: During Month	Changes in Elevation: During Year	Date and Extreme Ground Water Elevation of Record: Maximum	Date and Extreme Ground Water Elevation of Record: Minimum
alley										
	D-727 (In Ontario)	1093.0	1929	-	-	-	-	-	7-31-29 748.0	8-8-57 675.1
	D-1044 (S.W. of Fontana)	959.0	1912	204.1	204.0	202.5	-0.1	-1.6	4-15-24 795.3	9-6-55 745.0
n	E-37 (Meacham Well)	1130.3	1888	117.0	-	114.5	-	-2.5	1888 1146.9	8-9-57 1003.5
	E-109bb	1176.12	1956	142.8	142.3	-	-0.5	-	Flowing 6-7-56 1056.0	10-5-57 1033.5
nge Co.										
in	C-900 (N. of Los Alamitos)	35.29	1922	71.5	91.5	79.3	+20.0	+7.8	1-26-28 Flow.41.2	8-22-57 -59.7
	C-998g (W. of Santa Ana)	57.1	1930	81.0	82.0	77.8	+1.0	-3.2	1-21-31 31.1	9-13-57 -24.9
Area	C-1129m	136.1	1928	155.2	156.5	153.3	+1.3	-1.9	4-11-28 55.8	9-13-57 -20.4
	4S/3W-32A (In Perris)	1434.8	1929	73.9	73.9	73.4	0	-0.5	12-16-47 1370.5	9-4-56 1358.6
	4S/1W-35X (In San Jacinto)	1576.02	1952	-	-	-	-	-	4-16-52 1459.8	7-3-57 1383.7
	10S/3W-11G1	240.11	1939	39.7	39.2	33.4	-0.5	-6.3	3-17-41 232.6	10-1-57 200.4
	11S/4W-51	59.62	1939	55.1	55.0	52.3	-0.1	-2.8	4-14-41 55.5	10-7-57 4.5
	18S/2W-33R3 (R)	24.64	1936	33.5	32.0	33.9	-1.5	+0.4	3-2-44 21.9	1-2-57 -9.4

TABLE 5 - CHANGES IN GROUND-WATER ELEVATIONS AT REPRESENTATIVE WELLS IN SOUTHERN CALIFORNIA (Continued)

In Feet

Area and Ground Water Unit	Well Number	R. P. Elevation	Beginning of Record	Depths to Ground Water: Oct. 1957	Depths to Ground Water: Month Previous	Depths to Ground Water: Year Previous	Changes in Elevation: During Month	Changes in Elevation: During Year	Date and Extreme Ground Water Elevation of Record: Maximum	Date and Extreme Ground Water Elevation of Record: Minimum
River Area										
r Mojave River Valley	L-43A	1950.3	1925	84.1	83.8	-	-0.3	-	4-26-44 1895.2	11-16-53 1864.2
le Mojave River Valley	M-7	2562.1	1930	60.9	61.1	-	+0.2	-	6-12-41 2505.6	11-5-56 2495.4
	M-83A	2175.1	1946	76.8	-	-	-	-	3-5-47 2156.0	7-2-57 2096.0
r Mojave River Valley	U-28	2867.6	1946	48.8	48.1	-	-0.7	-	2-19-47 2850.7	10-2-57 2818.8
pe Valley	10111 (7N/10W-19A)	2446.5	1954	231.1	230.5	228.9	-0.6	-2.2	3-8-55 2240.5	10-8-57 2215.4
do Desert Area										
hella Valley	4S/5E-17L1 (E. of Palm Springs)	377	1953	169.0	169.5	165.4	+0.5	-3.6	5-15-53 222	9-4-57 207.5
	5S/7E-8J1 (N.W. of Indio)	59	1926	53.9	-	-	-	-	4-11-28 30	8-4-55 2.5
ego Valley	10S/6E-21A1	664.5	1953	160.9	-	-	-	-	1-4-53 533.5	8-22-57 496.1

nterpolated depth to ground water.