



STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 132-75

THE
CALIFORNIA
STATE WATER PROJECT
IN 1975

**save
water**

JUNE 1975

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

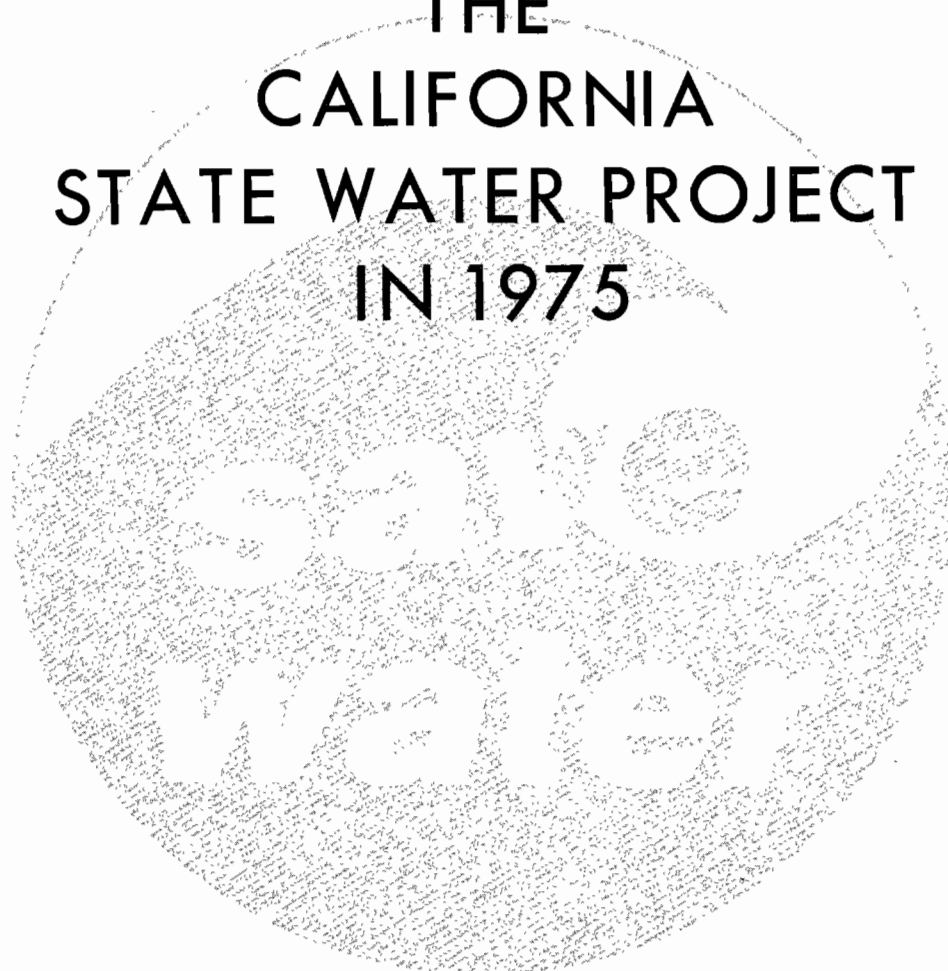
EDMUND G. BROWN JR.
Governor
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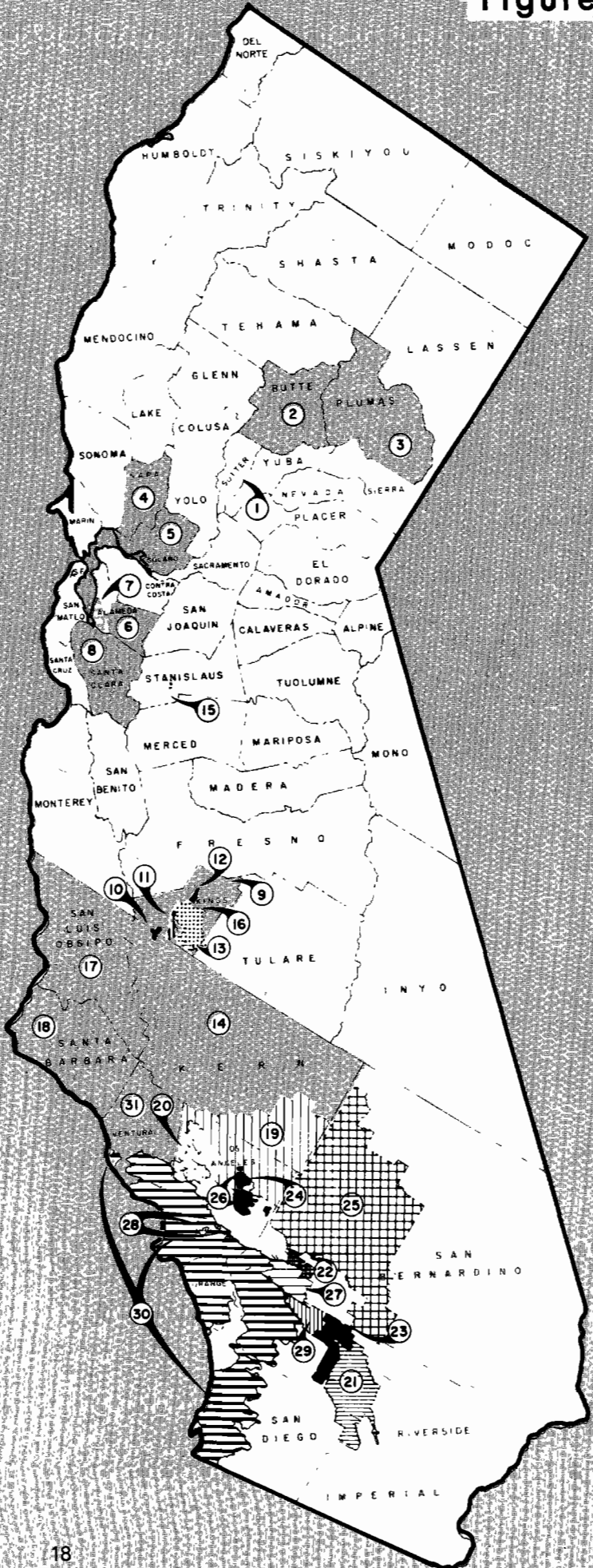
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Figure 6: LONG-TERM WATER SUPPLY



Location No.	Contracting Agency	Total Cumulative Deliveries through Dec. 31, 1974 (acre-feet)	Maximum Annual Entitlement (acre-feet)
UPPER FEATHER AREA			
1	City of Yuba City	0	9,600
2	County of Butte	558	27,500
3	Plumas County Flood Control and Water Conservation District	1,966	2,700
	Subtotal	2,524	39,800
NORTH BAY AREA			
4	Napa County Flood Control and Water Conservation District	22,349	25,000
5	Solano County Flood Control and Water Conservation District		42,000
	Subtotal	22,349	67,000
SOUTH BAY AREA			
6	Alameda County Flood Control and Water Conservation Dist., Zone 7	95,860	46,000
7	Alameda County Water District	183,730	42,000
8	Santa Clara Valley Water District	671,220	100,000
	Subtotal	950,810	188,000
SAN JOAQUIN VALLEY AREA			
9	County of Kings	9,100	4,000
10	Devil's Den Water District	82,836	12,700
11	Dudley Ridge Water District	283,668	57,700
12	Empire West Side Irrigation District	28,114	3,000
13	Hacienda Water District	38,702	8,500
14	Kern County Water Agency	2,475,891	1,153,400
15	Oak Flat Water District	38,558	5,700
16	Tulare Lake Basin Water Storage District	650,079	110,000
	Subtotal	3,606,948	1,355,000
CENTRAL COASTAL AREA			
17	San Luis Obispo County Flood Control and Water Conservation District	0	25,000
18	Santa Barbara County Flood Control and Water Conservation District	0	57,700
	Subtotal	0	82,700
SOUTHERN CALIFORNIA AREA			
19	Antelope Valley-East Kern Water Agency	1,332	138,400
20	Castaic Lake Water Agency	0	41,500
21	Coachella Valley County Water Agency	12,200	23,100
22	Crestline-Lake Arrowhead Water Agency	1,552	5,800
23	Desert Water Agency	19,000	38,100
24	Littlerock Creek Irrigation District	1,175	2,300
25	Mojave Water Agency	69	50,800
26	Palmdale Water District	0	17,300
27	San Bernardino Valley Municipal Water District	50,306	102,600
28	San Gabriel Valley Municipal Water District	612	28,800
29	San Geronio Pass Water Agency	0	17,300
30	The Metropolitan Water District of Southern California	509,536	2,011,500
31	Ventura County Flood Control District	0	20,000
	Subtotal	595,782	2,497,500
TOTAL STATE WATER PROJECT		5,178,413	4,230,000

NET TOTALS, STATE
 WATER PROJECT SERVICE AREA
 TOTAL, STATE OF CALIFORNIA
 PERCENT, STATE WATER PROJECT
 OF TOTAL

- a) Total for Plumas County, including Last Chance Creek Water District.
- b) Total for Kings County, including Dudley Ridge Water District, Empire West Side Irrigation District, Hacienda Water District, most of Tulare Lake Basin Water Storage District, and about 40% of Devil's Den Water District.
- c) Total for Kern County, including about 60% of Devil's Den Water District, and about 50% of Antelope Valley-East Kern Water Agency.

CONTRACTING AGENCIES

Total Payments through Dec. 31, 1974 (dollars)	Gross Area as of July 1, 1974 (acres)	Assessed Valuation 1974-75 (dollars)	Estimated Population (July 1, 1974)	Location No.
0	2,700	39,000,000	15,700	1
180,000	1,064,000	385,352,000	115,000	2
<u>108,000</u>	<u>1,644,000 (a)</u>	<u>133,870,000 (a)</u>	<u>13,100 (a)</u>	3
<u>288,000</u>	<u>2,710,700</u>	<u>558,222,000</u>	<u>143,800</u>	
1,684,000	508,000	323,692,135	87,100	4
62,000	528,400	517,474,000	181,900	5
<u>1,746,000</u>	<u>1,036,400</u>	<u>841,166,135</u>	<u>269,000</u>	
5,099,000	272,000	361,339,538	98,000	6
6,748,000	61,700	573,684,711	162,000	7
24,898,000	849,000	3,795,696,971	1,170,000	8
<u>36,745,000</u>	<u>1,182,700</u>	<u>4,730,721,220</u>	<u>1,430,000</u>	
158,000	893,000 (b)	201,242,000 (b)	69,500 (b)	9
1,392,000	8,500	1,258,700	50	10
2,624,000	29,900	6,528,100	50	11
260,000	7,500	754,000	50	12
330,000	15,300	165,155	50	13
42,404,000	5,057,200 (c)	1,600,231,000 (c)	341,000 (c)	14
261,000	4,000	275,000	50	15
<u>5,620,000</u>	<u>193,000</u>	<u>9,628,000</u>	<u>50</u>	16
<u>53,049,000</u>	<u>6,208,400</u>	<u>1,820,081,955</u>	<u>410,800</u>	
935,000	2,131,300	458,258,042	123,300	17
2,205,000	1,756,900	891,972,537	279,800	18
<u>3,140,000</u>	<u>3,888,200</u>	<u>1,350,230,579</u>	<u>403,100</u>	
12,861,000	1,524,900	492,637,589	93,800	19
5,671,000	125,000	221,724,111	58,100	20
3,374,000	637,100	297,451,361	68,700	21
932,000	53,700	63,670,255	11,100	22
5,564,000	209,300	238,053,710	40,700	23
263,000	43,300	6,817,980	1,400	24
6,398,000	3,160,400	354,440,955	67,400	25
1,707,000	73,800	64,083,522	23,400	26
19,829,000	209,100	724,226,315	321,200	27
5,075,000	16,200	430,788,720	146,500	28
2,954,000	140,600	64,064,565	27,700	29
335,273,000	3,128,700	35,941,961,265	10,850,900	30
2,469,000	1,179,500 (e)	1,498,573,939 (e)	426,000 (e)	31
<u>402,370,000</u>	<u>10,501,600</u>	<u>40,398,494,287</u>	<u>12,136,900</u>	
<u>497,338,000</u>	<u>25,528,000 (d)</u>	<u>49,698,916,176 (d)</u>	<u>14,793,600 (d)</u>	
24,165,000 (f)	48,667,768,400 (f)	14,502,600 (f)	100,314,000	
100,314,000	74,299,000,000	20,933,000		
24.1	65.9	69.3		

d) Includes duplicate values for overlapping agency areas.

e) Total for Ventura County, including about 8,400 acres in Antelope Valley-East Kern Water Agency, 209,500 acres in The Metropolitan Water District of Southern California, and about 8,400 acres in Castaic Lake Water Agency.

f) Excludes all overlapping areas.

Water Contracts Management

Thirty-one agencies have contracted for a long-term water supply from the State Water Project. The agencies encompass about one-quarter of the State's land area containing about 66 percent of the State's assessed valuation and 69 percent of the population. The names and locations of these agencies together with other pertinent information are shown in Figure 6.

The combined maximum annual entitlements of all agencies total 4,230,000 acre-feet—the amount established as the maximum which the State could contract to deliver. The annual amount of project water to which each agency is entitled is shown in Table A of its contract. Generally, the initial annual entitlement is small, increasing each year thereafter until the maximum annual entitlement is reached. Annual entitlements for each of the 31 agencies are shown in Table B-4, Appendix B. Table B-5 shows the historical and projected annual deliveries for each agency.

Columns 1 through 6 of Table 1 present a summary of annual entitlement totals within major service areas served by the Project. Column 7 shows the total of all agencies' annual entitlements and Column 8 actual and estimated entitlement water deliveries. Column 7 values represent estimated water needs at the time the contracts were negotiated. Values in Column 8 are lower because past needs and presently estimated future needs of several contractors, mainly in Southern California, are less than original contract amounts. Most contractors requiring less project water are primarily municipal and industrial contractors who have experienced a decrease in originally projected population growth.

Agencies utilizing project water primarily for agricultural purposes are expected to continue to want to use project water in amounts exceeding their annual entitlements. These agencies, located in the San Joaquin Valley, anticipate continued use of surplus water, as long as available, to reduce overall water costs.

Surplus water is made available first to the 31 long-term contractors and the balance to other, or non-contractor, customers. Past and projected surplus water deliveries are summarized in Column 9 of Table 1 together with miscellaneous deliveries (see footnote (a) of Table 1).

In addition to total water deliveries to contracting agencies summarized in Column 10, Table 1 shows past and projected water requirements associated with operation of the Project in Columns 11 and 12, and deliveries required for the maintenance of project recreation developments in Column 13. Overall total annual quantities are shown in Column 14.

TABLE 1: ANNUAL

(in acre-

Calendar Year	Annual Entitlements Under Long-term Water Supply Contracts						
	Feather River Area	North Bay Area	South Bay Area	San Joaquin Valley Area	Central Coastal Area	Southern California Area	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1962	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0
1967	0	0	11,538	0	0	0	11,538
1968	550	0	109,900	81,050	0	0	191,500
1969	620	0	98,700	168,075	0	0	267,395
1970	700	0	114,200	207,700	0	0	322,600
1971	890	0	116,200	258,500	0	0	375,590
1972	970	0	118,300	420,766	0	201,723	741,759
1973	1,100	0	120,400	392,352	0	472,400	986,252
1974	1,230	0	122,400	470,350	0	588,220	1,182,200
Subtotal for 13 years 1962-1974	6,060	0	811,638	1,998,793	0	1,262,343	4,078,834
1975	1,610	0	124,500	526,150	0	704,250	1,356,510
1976	1,990	0	126,500	535,600	0	824,780	1,488,870
1977	2,420	0	128,600	594,100	0	942,201	1,667,321
1978	2,850	0	130,700	651,600	0	1,060,722	1,845,872
1979	3,280	0	132,700	707,700	0	1,177,873	2,021,553
1980	4,710	19,250	134,800	765,000	2,200	1,304,914	2,230,874
1981	10,390	21,750	137,000	828,500	3,300	1,425,865	2,426,805
1982	12,270	24,400	139,200	889,200	6,600	1,546,806	2,618,476
1983	14,200	27,050	141,400	955,500	9,900	1,668,557	2,816,607
1984	16,130	29,600	143,600	1,017,900	14,900	1,790,398	3,012,528
1985	19,060	32,750	145,800	1,079,100	24,800	1,912,549	3,214,059
10 years, 1976-1985	87,300	154,800	1,360,300	8,024,200	61,700	13,654,665	23,342,965
10 years, 1986-1995	340,420	587,500	1,650,200	13,032,300	688,000	23,869,646	40,168,066
10 years, 1996-2005	386,460	670,000	1,878,000	13,550,000	827,000	24,975,000	42,286,460
10 years, 2006-2015	393,170	670,000	1,880,000	13,550,000	827,000	24,975,000	42,295,170
10 years, 2016-2025	398,000	670,000	1,880,000	13,550,000	827,000	24,975,000	42,300,000
10 years, 2026-2035	398,000	670,000	1,880,000	13,550,000	827,000	24,975,000	42,300,000

a) Amounts shown for 1962 thru 1974 include regulated delivery of local supply (429,279 acre-feet), surplus water (1,761,030 acre-feet), and repayment of preconsolidation water (80,788 acre-feet). Amounts shown for 1975 thru 1985 are based on studies as to the availability and cost of surplus water.

WATER REQUIREMENTS

feet)

Estimated Annual Water Demands							Calendar Year
Deliveries to Contracting Agencies			Initial Fill	Operational Losses and Storage Changes	Recreation Water	Total	
Entitlement Water	Surplus and Nonproject Water(a)	Total					
(8)	(9)	(10)	(11)	(12)	(13)	(14)	
0	18,289	18,289	9	272	0	18,570	1962
0	22,456	22,456	71	185	0	22,712	1963
0	32,507	32,507	171	152	0	32,830	1964
0	44,105	44,105	93	729	0	44,927	1965
0	67,928	67,928	00	1,746	0	69,674	1966
11,538	53,605	65,143	8,328	4,212	0	77,683	1967
171,709	136,311	308,020	498,926	117,906	0	924,852	1968
193,020	91,226	284,246	510,614	72,196	0	867,056	1969
233,993	171,104	405,097	23,947	2,435	0	431,479	1970
357,340	340,138	697,478	7,853	5,812	8	711,151	1971
611,801	490,602	1,102,403	100,274	53,010	6,541	1,262,228	1972
694,460	338,927	1,033,387	204,638	54,953	1,083	1,294,061	1973
874,075	463,900	1,337,975	246,620	13,046	2,118	1,599,759	1974
3,147,936	2,271,098	5,419,034	1,601,544	326,654	9,750	7,356,982	13 years, 1962-1974
1,287,960	572,551	1,860,511	71,327	58,773	7,284	1,997,895	1975
1,415,252	848,011	2,263,263	109,381	231,030	6,221	2,609,895	1976
1,616,572	926,610	2,543,182	4,360	-29,037	10,251	2,528,756	1977
1,794,222	908,011	2,702,233	4,360	24,843	10,286	2,741,722	1978
1,925,483	873,656	2,799,139	0	246,328	10,312	3,055,779	1979
2,022,548	832,246	2,854,794	0	160,125	42,662	3,057,581	1980
2,112,261	799,346	2,911,607	0	220,920	42,674	3,175,201	1981
2,256,043	747,726	3,003,769	0	184,278	42,684	3,230,731	1982
2,400,842	720,039	3,120,881	0	135,227	44,645	3,300,753	1983
2,511,127	681,883	3,193,010	0	201,866	44,755	3,439,631	1984
2,637,997	647,359	3,285,356	0	100,841	44,875	3,431,072	1985
20,692,347	7,984,887	28,677,234	118,101	1,476,421	299,365	30,571,121	10 years, 1976-1985
34,171,422	0	34,171,422	0	1,757,789	453,650	36,382,861	10 years, 1986-1995
39,860,080	0	39,860,080	0	1,753,487	455,000	42,068,567	10 years, 1996-2005
41,953,670	0	41,953,670	0	1,848,236	455,000	44,256,906	10 years, 2006-2015
42,237,200	0	42,237,200	0	1,841,431	455,000	44,533,631	10 years, 2016-2025
42,300,000	0	42,300,000	0	1,842,860	455,000	44,597,860	10 years, 2026-2035

Water Deliveries in 1974

The contracts of 24 long-term contracting agencies called for deliveries of 1,146,650 acre-feet of entitlement water in 1974. Table 2 lists these agencies together with their 1974 entitlement, the amount of entitlement and surplus water scheduled for delivery in 1974, as well as the amounts actually delivered. Project water deliveries to long-term contractors, entitlement plus surplus water, totaled 1,289,999 acre-feet in 1974.

Project water service involving the delivery of 1,337,975 acre-feet of water was provided to a total of 29 customers in 1974 including six noncontractors.

Monthly deliveries to each project customer during the year are shown in Table 3 and include:

- 874,075 acre-feet of entitlement water to 22 long-term contractors. (Napa County FC&WCD received only regulated delivery of local water supply.)
- 415,924 acre-feet of surplus water to nine long-term contractors.
- 35,884 acre-feet of local water to three long-term contractors and two noncontractors.
- 10,340 acre-feet of repayment water to the two

TABLE 2: SUMMARY OF 1974 ENTITLEMENT AND SURPLUS WATER SERVICE TO LONG-TERM CONTRACTORS

Long-term Contractor	Entitlement Water (acre-feet)			Surplus Water (acre-feet)	
	1974 Entitlement as of 1/1/74	Scheduled as of 1/1/74	Delivered	Scheduled 10/1/73 and 5/1/74	Delivered
UPPER FEATHER AREA					
Butte County	700	700	127	0	0
Plumas County FC&WCD	530	530	648	0	0
SOUTH BAY AREA					
Alameda County FC&WCD, Zone 7	14,800	14,800	1,314	0	0
Alameda County WD	19,600	19,600	4	0	0
Santa Clara Valley WD	88,000	88,000	88,000	12,000	2,934
SAN JOAQUIN VALLEY AREA					
County of Kings	1,500	1,500	1,500	0	0
Devil's Den Water District	9,700	9,700	9,700	3,935	4,128
Dudley Ridge Water District	24,100	24,100	33,390 ^(a)	34,792	33,391
Empire West Side ID	3,000	3,000	3,000	1,600	1,539
Hacienda Water District	3,300	3,300	3,300	3,313	1,972
Kern County Water Agency	347,000 ^(a)	347,000	347,000	331,586	299,433
Oak Flat Water District	3,200	3,200	3,471 ^(a)	2,500	3,471
Tulare Lake Basin WSD	43,000	43,000	68,989 ^(a)	141,477	68,989
SOUTHERN CALIFORNIA AREA					
Antelope Valley-East Kern WA	30,000	45	1,259	0	0
Castaic Lake WA	5,700	0	0	0	0
Coachella Valley County WD	6,400	6,400	6,400	0	0
Crestline-Lake Arrowhead WA	1,160	1,160	627	0	0
Desert Water Agency	10,000	10,000	10,000	0	0
Littlerock Creek ID	400	400	400	165	67
Mojave Water Agency	13,100	0	14	0	0
Palmdale WD	4,260	0	0	0	0
San Bernardino Valley MWD	50,000	50,000	16,605	0	0
San Gabriel Valley MWD	12,300	12,300	612	0	0
The Metropolitan WD of So. Cal.	454,900	320,600	277,715	0	0
TOTALS	1,146,650	959,335	874,075	531,368	415,924

a) Table A amount for 1974 increased at year's end in compliance with the surplus water contract because of the amount of project water received.

noncontractors, Buena Vista Water Storage District and J. G. Boswell Company, having agreements calling for this form of compensation.

1,752 acre-feet of surplus water to two noncontractors.

Other 1974 deliveries involving project facilities included 1,121,747 acre-feet to federal customers from the joint-use San Luis Facilities and 887,483 acre-feet from the Oroville Facilities to canal systems originally connected to the Feather River.

Entitlement Water Deliveries. Initially approved 1974 water delivery schedules called for delivery of full annual entitlements to 19 long-term contractors. Nine of these received the scheduled amounts while four received more than originally scheduled and six received less (see Table 2). Three contractors were originally scheduled to receive no project water during the year although one of these, Mojave Water Agency, subsequently requested and received a small amount, and two contractors were scheduled to receive water in an amount less than their annual entitlements. Overall, 874,075 acre-feet of entitlement water was delivered during the year while the remaining 272,575 acre-feet of Table A entitlements was paid for as required by the water contracts but not delivered. In all cases, nondelivery was due to reduced demands or inability of the water contractor to distribute the water within the contractor's service area.

Pursuant to the 1974 surplus water contracts and the recently executed surplus water amendment to their long-term contracts, the State was required to increase the 1974 entitlements of three contractors to an amount equal to one-half the total project water received during the year. Dudley Ridge Water District's entitlement was increased by 9,290 acre-feet, Oak Flat Water District's by 271 acre-feet, and Tulare Lake Basin Water Storage District's by 25,989 acre-feet. Each of these three contractors received project water during the year in amounts more than twice as large as their annual entitlements.

Plumas County Flood Control and Water Conservation District also received 118 acre-feet of entitlement water during 1974 in excess of its 1974 entitlement. The treatment of this excess delivery is under review.

Deferred Deliveries. As noted in the previous section, several contractors were unable to take delivery of their full 1974 entitlements. Table 3 shows for each contractor the amount of entitlement water not delivered in 1974 and cumulative undelivered amounts through 1974.

Alameda County Flood Control and Water Conservation District, Zone 7, and Alameda County Water District have special "wet weather" provisions in their contracts whereby the State is obligated to make up entitlement deliveries, if nondelivery was a

result of above-normal local water supplies. Having determined that nondelivery was a result of above-normal local water supplies, the State is obligated to deliver at some time in the future those portions of the two contractors' 1974 entitlement water which was not delivered in 1974. Total undelivered entitlement water to which contractors have acquired later delivery rights pursuant to the "wet weather" provisions is shown in the "Deferred Delivery" column of Table 3.

Table 3 shows that one other contractor, Santa Clara Valley Water District, has a deferred delivery credit under the "wet weather" provisions. During 1974 the District took delivery of project water in an amount exceeding its 1974 entitlement. By mutual agreement the additional water was delivered under the surplus water provisions, and the District's deferred delivery credit was reduced by the amount so taken—2,934 acre-feet.

The "wet weather" provisions also provide that in a year of below-average local water supply the contractor may increase its annual entitlement and in a later year or years of above-average water supply may decrease its annual entitlement by an equal amount. Two contractors, Oak Flat Water District and Tulare Lake Basin Water Storage District, have made such increases (see pages 29 and 30, Bulletin 132-73). As shown in the "Future Reductions" column of Table 3 they have thus acquired the right to future entitlement reductions of 2,466 acre-feet and 74,852 acre-feet, respectively.

Eight contractors which did not take delivery of their full annual entitlements in 1974 do not have the "wet weather" provisions in their contract, and the State is therefore not obligated to make later deliveries of the undelivered portion of their 1974 entitlement. As discussed in a following section, entitled "Contract Amendments", the Department is working with contractors to develop an amendment which would provide that undelivered entitlement water, regardless of the reason for nondelivery, would either be delivered later or result in a monetary credit to a contractor in lieu of later delivery.

Surplus Water Service. Contracts providing for 1974 surplus service were executed by nine long-term contractors and two noncontractors. The contracts were similar to those used for surplus service during the last eight months of 1973. The major change involved limitations placed on the quantity of surplus water which could be obtained without increasing the annual entitlement. This change was made to conform with the proposed surplus water amendment, then in the final negotiation stage.

The two-step scheduling procedure, initiated in 1973, was continued. Initially approved surplus water delivery schedules for the period January 1 through April 30, 1974, based on requests made prior to October 1, 1973, called for deliveries totaling 145,226 acre-

TABLE 3: WATER

(in acre-

Line No.	Contracting Agency and Type of Service	Month							
		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.
FEATHER RIVER SERVICE AREA									
County of Butte:									
1.	Entitlement Water	15	2	36	1	36	0	6	15
Last Chance Creek Water District:									
2.	Regulated Delivery of Local Supply	0	0	0	0	454	5,262	4,542	3,612
Plumas County Flood Control & Water Cons. District:									
3.	Entitlement Water	39	43	45	40	78	70	82	95
Thermalito Irrigation District:									
4.	Regulated Delivery of Local Supply	0	0	0	0	0	35	112	101
5.	AREA TOTAL	54	45	81	41	568	5,367	4,742	3,823
NORTH BAY SERVICE AREA									
6.	Napa County Flood Control & Water Cons. District: Regulated Delivery of Local Supply	646	375	541	670	476	94	0	0
SOUTH BAY SERVICE AREA									
Alameda County Flood Control & Water Cons. Dist. Zone 7:									
7.	Entitlement Water	0	0	13	13	181	272	357	208
8.	Regulated Delivery of Local Supply	191	549	677	440	1,273	1,117	1,342	1,971
9.	Agency Total	191	549	690	453	1,454	1,389	1,699	2,179
Alameda County Water District:									
10.	Entitlement Water	0	0	0	0	0	0	0	3
11.	Regulated Delivery of Local Supply	0	0	0	0	0	0	0	252
12.	Agency Total	0	0	0	0	0	0	0	255
Santa Clara Valley Water District:									
13.	Entitlement Water	3,079	3,023	3,767	3,819	8,818	9,762	10,564	11,022
14.	Surplus Water	0	0	0	0	0	0	0	0
15.	Agency Total	3,079	3,023	3,767	3,819	8,818	9,762	10,564	11,022
16.	AREA TOTAL	3,270	3,572	4,457	4,272	10,272	11,151	12,263	13,456
SAN JOAQUIN VALLEY SERVICE AREA									
J. G. Boswell Company:									
17.	Repayment of Preconsolidation Water	998	499	290	713	0	0	0	0
Buena Vista Water Storage District:									
18.	Repayment of Preconsolidation Water	0	25	494	776	1,445	1,032	1,529	1,757
County of Kings:									
19.	Entitlement Water	165	165	165	15	0	165	165	165
Devil's Den Water District:									
20.	Entitlement Water	873	582	776	776	611	1,369	1,746	1,691
21.	Surplus Water	274	324	1,474	837	0	0	439	588
22.	Agency Total	1,147	906	2,250	1,613	611	1,369	2,185	2,279
Dudley Ridge Water District:									
23.	Entitlement Water	683	1,417	1,600	2,900	3,000	4,300	4,300	6,200
24.	Surplus Water	0	1,068	3,377	1,689	2,980	6,619	7,805	5,951
25.	Agency Total	683	2,485	4,977	4,589	5,980	10,919	12,105	12,151
Empire West Side Irrigation District:									
26.	Entitlement Water	0	40	200	400	0	171	540	540
27.	Surplus Water	0	0	379	25	0	0	551	321
28.	Agency Total	0	40	579	425	0	171	1,091	861
Green Valley Water District:									
29.	Surplus Water	0	0	0	0	150	390	526	675
Hacienda Water District:									
30.	Entitlement Water	0	350	250	74	0	0	595	355
31.	Surplus Water	0	500	205	0	0	0	149	0
32.	Agency Total	0	850	455	74	0	0	744	355
Kern County Water Agency:									
33.	Entitlement Water	5,886	29,296	26,371	21,836	36,943	53,992	64,619	65,780
34.	Surplus Water	4,455	15,026	28,502	18,127	26,595	53,789	66,896	50,311
35.	Agency Total	10,341	44,322	54,873	39,963	63,538	107,781	131,515	116,091
Oak Flat Water District:									
36.	Entitlement Water	0	0	250	575	500	575	575	668
37.	Surplus Water	0	395	249	176	801	733	552	463
38.	Agency Total	0	395	499	751	1,301	1,308	1,127	1,131
Tracy Golf and Country Club:									
39.	Surplus Water	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District:									
40.	Entitlement Water	3,297	4,503	2,077	1,927	7	2,250	11,600	13,000
41.	Surplus Water	0	3,321	0	0	0	0	7,209	13,052
42.	Agency Total	3,297	7,824	2,077	1,927	7	2,250	18,809	26,052
43.	AREA TOTAL	16,631	57,511	66,659	50,846	73,032	125,385	169,796	161,517
SOUTHERN CALIFORNIA SERVICE AREA									
Antelope Valley-East Kern Water Agency:									
44.	Entitlement Water	0	0	0	0	0	0	91	457
45.	Castaic Lake Water Agency	0	0	0	0	0	0	0	0
46.	Coachella Valley County Water District: Entitlement Water	544	492	505	564	544	525	544	544
47.	Crestline-Lake Arrowhead Water Agency: Entitlement Water	62	43	33	21	43	52	81	78
48.	Desert Water Agency: Entitlement Water	1,110	1,110	1,025	1,195	1,110	1,110	1,110	1,110
Littlerock Creek Irrigation District:									
49.	Entitlement Water	0	0	0	0	0	0	133	267
50.	Surplus Water	0	0	0	0	0	0	6	4
51.	Agency Total	0	0	0	0	0	0	139	271
52.	Mojave Water Agency	0	0	0	0	0	0	0	0
53.	Palmdale Water District	0	0	0	0	0	0	0	0
San Bernardino Valley Municipal Water District:									
54.	Entitlement Water	3,532	4,233	3,617	1,077	22	669	736	740
55.	San Gabriel Valley Municipal Water District Entitlement Water	0	0	0	0	0	0	0	0
56.	The Metropolitan Water District of Southern California: Entitlement Water	10,491	17,028	10,640	13,357	19,842	21,765	27,597	27,802
57.	AREA TOTAL	15,739	22,906	15,820	16,214	21,561	24,119	30,298	31,002
ALL AGENCIES:									
58.	Entitlement Water	29,776	62,327	51,370	48,590	71,735	97,045	125,441	130,740
59.	Surplus Water	4,729	20,634	34,186	20,854	30,526	61,531	84,133	71,365
60.	Total, Project Water	34,505	82,961	85,556	69,444	102,261	158,576	209,574	202,105
61.	Regulated Delivery of Local Supply	837	924	1,218	1,110	2,203	6,508	5,996	5,936
62.	Repayment of Preconsolidation Water	998	524	784	1,489	1,445	1,032	1,529	1,757
63.	TOTAL WATER	36,340	84,409	87,558	72,043	105,909	166,116	217,099	209,798

a) Repayment of Preconsolidation water.

DELIVERIES IN 1974

feet)

Month					1974 Contract Entitlement	1974 Entitlement Not Delivered	Net Cumulative Entitlement Not Delivered thru		Net Entitlement Credits Under "Wet Weather" Provisions As of January 1, 1975		Line No.
Sep.	Oct.	Nov.	Dec.	Total			1973	1974	Deferred Delivery	Future Reductions	
3	5	0	8	127	700	573	2,169	2,742	-	-	1.
1,693	199	232	96	16,090	-	-	-	-	-	-	2.
72	43	22	19	648	530	0	912	794	-	-	3.
89	56	0	0	393	-	-	-	-	-	-	4.
1,857	303	254	123	17,258	1,230	573	3,081	3,536	-	-	5.
48	713	662	645	4,870	-	-	-	-	-	-	6.
63	70	108	29	1,314	14,800	13,486	21,802	35,288	33,992	0	7.
1,635	1,670	914	1,323	13,102	-	-	-	-	-	-	8.
1,698	1,740	1,022	1,352	14,416	-	-	-	-	-	-	9.
0	0	0	1	4	19,600	19,596	58,388	77,984	62,856	0	10.
62	240	350	525	1,429	-	-	-	-	-	-	11.
62	240	350	526	1,433	-	-	-	-	-	-	12.
10,701	10,786	8,152	4,507	88,000	88,000	0	38,714	38,714	2,455	0	13.
0	0	0	2,934	2,934	-	-	-	-	-	-	14.
10,701	10,786	8,152	7,441	90,934	-	-	-	-	-	-	15.
12,461	12,766	9,524	9,319	106,783	122,400	33,082	118,904	151,986	99,303	0	16.
0	0	0	0	2,500	-	-	-	-	92,087 ^(a)	-	17.
782	0	0	0	7,840	-	-	-	-	66,724 ^(a)	-	18.
165	165	0	165	1,500	1,500	0	0	0	0	0	19.
243	300	0	733	9,700	9,700	0	0	0	-	-	20.
0	0	0	192	4,128	-	-	-	-	-	-	21.
243	300	0	925	13,828	-	-	-	-	-	-	22.
4,620	1,600	1,686	1,084	33,390	33,390	0	0	0	-	-	23.
496	1,469	853	1,084	33,391	-	-	-	-	-	-	24.
5,116	3,069	2,539	2,168	66,781	-	-	-	-	-	-	25.
131	101	649	228	3,000	3,000	0	0	0	0	0	26.
0	0	0	263	1,539	-	-	-	-	-	-	27.
131	101	649	491	4,539	-	-	-	-	-	-	28.
0	0	0	0	1,741	-	-	-	-	-	-	29.
590	1,086	0	0	3,300	3,300	0	0	0	0	0	30.
410	708	0	0	1,972	-	-	-	-	-	-	31.
1,000	1,794	0	0	5,272	-	-	-	-	-	-	32.
23,088	9,544	7,312	2,333	347,000	347,000	0	0	0	-	-	33.
14,001	4,102	6,784	10,845	299,433	-	-	-	-	-	-	34.
37,089	13,646	14,096	13,178	646,433	-	-	-	-	-	-	35.
247	30	40	11	3,471	3,471	0	0	0	0	2,466	36.
21	30	41	10	3,471	-	-	-	-	-	-	37.
268	60	81	21	6,942	-	-	-	-	-	-	38.
5	6	0	0	11	-	-	-	-	-	-	39.
4,339	12,200	3,000	10,789	68,989	68,989	0	0	0	0	74,852	40.
13,915	9,415	9,920	12,157	68,989	-	-	-	-	-	-	41.
18,254	21,615	12,920	22,946	137,978	-	-	-	-	-	-	42.
63,053	40,756	30,285	39,894	895,365	470,350	0	0	0	0	77,318	43.
373	116	189	33	1,259	30,000	28,741	44,927	73,668	-	-	44.
0	9	0	0	0	5,700	5,700	4,936	10,636	-	-	45.
525	544	525	544	6,400	6,400	0	5,200	5,200	-	-	46.
80	50	42	42	627	1,160	533	471	1,004	-	-	47.
1,110	10	0	0	10,000	10,000	0	8,000	8,000	-	-	48.
0	0	0	0	400	400	0	0	0	-	-	49.
0	36	21	0	67	-	-	-	-	-	-	50.
0	36	21	0	467	-	-	-	-	-	-	51.
4	10	0	0	14	13,100	13,086	19,045	32,131	-	-	52.
0	0	0	0	0	4,260	4,260	4,560	8,820	-	-	53.
673	303	359	644	16,605	50,000	33,395	15,976	49,371	-	-	54.
0	0	0	612	612	12,300	11,688	11,622	23,310	-	-	55.
22,027	41,415	40,440	25,313	277,715	454,900	177,185	277,551	454,736	-	-	56.
24,792	42,484	41,576	27,188	313,699	588,220	274,588	392,288	666,876	-	-	57.
69,054	78,378	62,524	47,095	874,075	1,182,200	308,243	514,273	822,398	99,303	0	58.
28,848	15,766	17,619	27,485	417,676	-	-	-	-	-	-	59.
97,902	94,144	80,143	74,580	1,291,751	-	-	-	-	-	-	60.
3,527	2,878	2,158	2,589	35,884	-	-	-	-	-	-	61.
782	0	0	0	10,340	-	-	-	-	158,811	-	62.
102,211	97,022	82,301	77,169	1,337,975	1,182,200	308,243	514,273	822,398	258,114	77,318	63.

feet. Due to above-normal precipitation during this period, only about 55 percent of the initially scheduled surplus water was delivered to seven long-term contractors. Approved surplus water delivery schedules for the last eight months of 1974, issued on about May 1, 1974, called for total deliveries of 388,760 acre-feet. During the eight-month period, 337,273 acre-feet of surplus water were delivered, about 87 percent of the initially scheduled total, to nine long-term contractors and two noncontractors.

Project Water Delivery Plans

On about October 1, 1974, long-term contractors submitted projections of water needs during the seven-year period of 1975 through 1981. The seven-year projections resulted from a change in past procedure wherein projections covered a six-year period. Contractor comments on the change in procedure indicated there were no serious objections to providing the seventh year of data since it would be beneficial to the Department's power studies. Shown below is a comparison of the latest projected entitlement water requirements with those submitted in previous years:

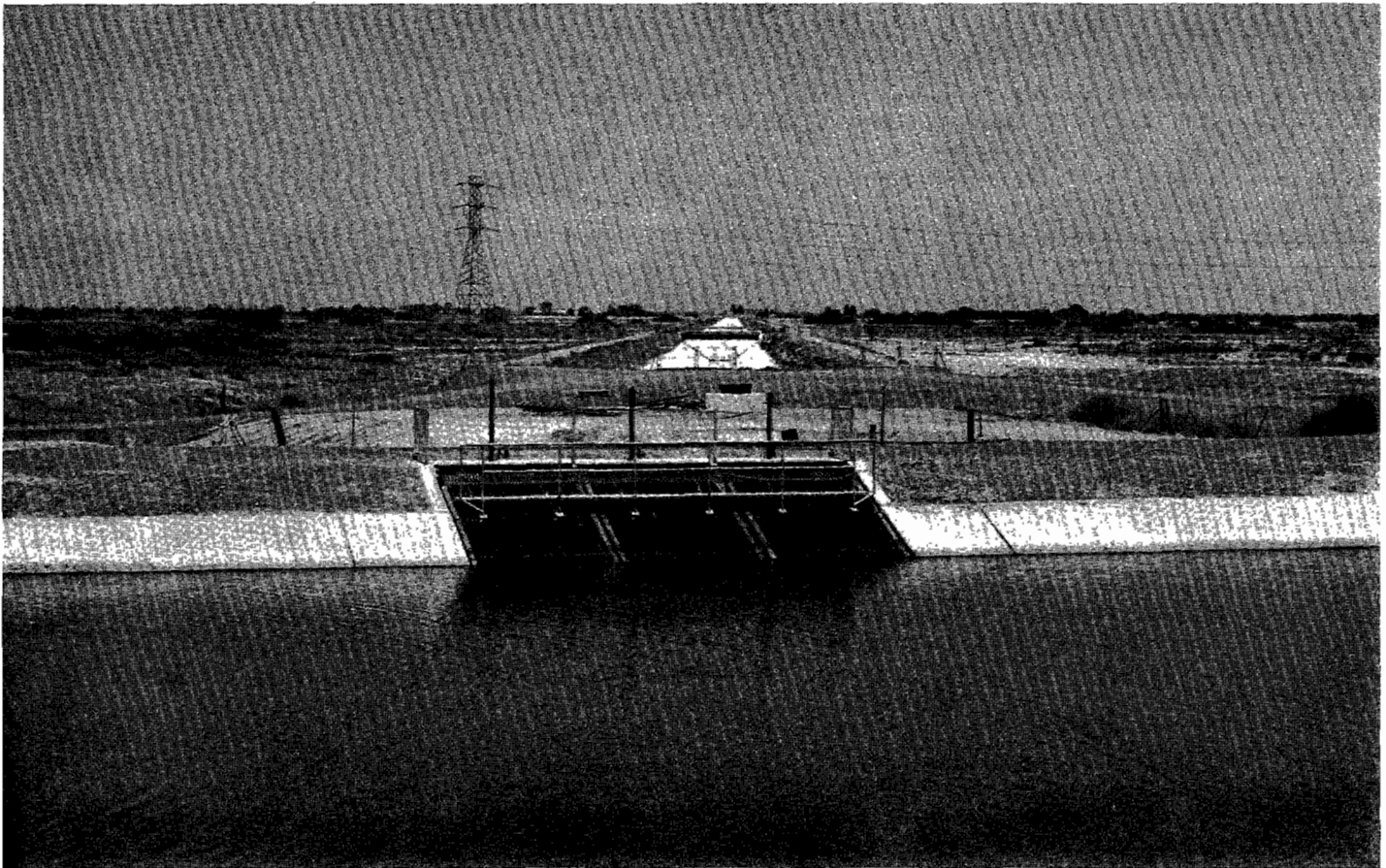
Approved schedules issued December 1, 1974, included surplus water deliveries totaling 163,422 acre-feet to eight of the long-term contractors during the first four months of 1975. Schedules issued to nine long-term contractors also showed tentative approval of surplus water deliveries during the last eight months of the year, totaling 408,346 acre-feet. The tentative surplus water schedules are subject to review and revision during April, and approved schedules for the eight-month period will be issued May 1, 1975. No surplus water schedules were issued to noncontractors, although two agencies indicated they expected to contract with the State for surplus water in 1975.

Surplus water service during 1975 will be provided under the same provisions as 1974 service. Rather than issue new contracts, the nine long-term contractors scheduled to receive surplus water in 1975 were asked to approve a one-year extension of their 1974 surplus water contracts. Agreements to the extension were received from the nine contractors prior to the issuance of the approved 1975 monthly delivery schedules on about December 1, 1974.

Projections Submitted October 1 of:	For Delivery of Entitlement Water During:						
	1975	1976	1977	1978	1979	1980	1981
	(acre-feet)						
1974	1,242,710	1,415,252	1,616,572	1,794,222	1,925,483	2,022,548	2,112,251 ^(a)
1973	1,218,975	1,457,615	1,692,725	1,776,735	1,864,075		
1972	1,283,915	1,459,955	1,576,936	1,683,016			
1971	1,160,750	1,321,730	1,480,251				
1970	1,010,630	1,128,815					
1969	1,112,320						
Contracts							
Amount	1,311,260	1,488,870	1,667,321	1,845,872	2,021,553	2,230,874	2,426,805

a) Seven-year requests were submitted October 1, 1974, for the first time.

The comparison shows projected requirements submitted October 1, 1974, although still less than the total contract amounts, are greater than initially projected requirements for each of the years 1975 through 1979. On about December 1, 1974, approved schedules calling for 1975 entitlement water deliveries totaling 1,287,960 acre-feet were sent to 21 long-term contractors.



Greater Bakersfield Turnout near Tupman

The 1973 and the extended 1974 surplus water contracts as well as the surplus water amendment, now executed by all long-term contractors utilizing surplus water, provide that a contractor may commit itself to guarantee payment of the cost of power capacity ordered to pump surplus water deliveries beyond the current year. The obligation becomes effective at the time the Department makes a commitment for such power. In 1973 and 1974 the following contractors committed themselves to pay the cost of power capacity required to pump the amounts of surplus water indicated below:

After consultation with contractors requesting surplus water, the State made commitments to purchase power estimated to be needed to deliver 637,237 acre-feet of surplus water in 1979 and 814,700 acre-feet in 1980 to the agencies shown in the above tabulation. Commitment to pay costs of such power does not result in any greater right or priority to receive surplus water in the event there is not sufficient water available to meet requests for surplus water from all contractors.

Contracting Agency	Year of Obligation:					
	1975	1976	1977	1978	1979	1980
	(acre-feet)					
Dudley Ridge WD					23,100	39,100
Hacienda WD	3,600	3,900	4,200	4,600	4,900 ^a	5,200
Kern County WA	404,152	469,902	438,837	469,087	462,137	554,900
Santa Clara Valley WD	12,000	12,000	12,000	12,000	12,000	12,000
Tulare Lake Basin WSD					140,000	203,500
TOTAL	419,752	485,802	455,037	485,687	642,137	814,700

a) Commitment not made for power to pump this amount.

Contract Amendments

As of December 31, 1974, a total of 281 amendments to the long-term contracts had been executed. The amendments to each contract are summarized in Figure 7 by subject and amendment number. The following 21 amendments were executed during 1974:

An amendment which increased the 1973 entitlement for Tulare Lake Basin Water Storage District from 39,100 acre-feet to 40,652 acre-feet (see page 31, Bulletin 132-74).

An amendment, submitted to all contractors which realigns and simplifies the surplus water provisions (see pages 31-32, Bulletin 132-74) executed by the following 20 contractors: Alameda County Flood Control and Water Conservation District, Zone 7, Antelope Valley-East Kern Water Agency, Castaic Lake Water Agency, Coachella Valley County Water District, County of Kings, Crestline-Lake Arrowhead Water Agency, Desert Water Agency, Devil's Den Water District, Dudley Ridge Water District, Empire West Side Irrigation District, Hacienda Water District, Kern County Water Agency, Littlerock Creek Irrigation District, Oak Flat Water District, Palmdale Water District, Plumas County Flood Control and Water Conservation District, Santa Barbara County Flood Control and Water Conservation District, Santa Clara Valley Water District, Solano County Flood Control and Water Conservation District, and Tulare Lake Basin Water Storage District.

Amendments pending as of December 31, 1974, included the following:

An amendment to contracts with City of Yuba City and County of Butte concerning the calculation of the Delta Water Charge and the project interest rate.

An amendment to the contract with Solano County Flood Control and Water Conservation District concerning the calculation of the Delta Water Charge.

An amendment to contracts with City of Yuba City and Solano County Flood Control and Water Conservation District which deletes the surcharge, surcharge credit, and power credit provisions.

Amendments to 11 contracts to realign and simplify the surplus water provisions: Alameda County Water District, City of Yuba City, County of Butte, Mojave Water Agency, Napa County Flood Control and Water Conservation District, San Bernardino Valley Municipal Water District, San Gabriel Valley Municipal Water District, San Geronio Pass Water Agency, San Luis Obispo

County Flood Control and Water Conservation District, The Metropolitan Water District of Southern California, and Ventura County Flood Control District.

Deferred Delivery Amendment. The deferred delivery amendment would provide contractors with the right to later delivery of entitlement water paid for but not received. Eight contractors have a provision in their contracts which gives them such a right, if delivery is deferred because of above-average local water supplies. The proposed amendment, which would be available to all contractors, would give the right to later delivery or an option of obtaining a monetary rather than delivery credit no matter what the reason for deferral. During 1974, discussions continued regarding the content and application of this proposed amendment.

Negotiation of Water Charge Settlements

The task force consisting of representatives of the State Water Contractors Audit Committee, The Metropolitan Water District of Southern California, and the Department's Water Service Contract Cost Negotiation Committee continued its discussions and negotiations during 1974.

During 1973, a proposed settlement of the protested 1969 and 1970 capital costs was negotiated (see page 32, Bulletin 132-74). A letter setting forth the proposed settlement was sent to each of the long-term contractors on June 26, 1974, for approval. By year's end the settlement letter had been approved by all but two of the contractors; namely, City of Yuba City and Mojave Water Agency.

A number of issues regarding water service charges have not yet been resolved. By Water Service Contractors Council Memo No. 917, September 23, 1974, contractors were notified that they will have until December 21, 1975, to file notices of contests and to pursue all remedies available to them on statements of charges submitted prior to such date excepting charge settlements negotiated by the task force which are covered in the eight settlement letters and the concurrence letter previously issued.

The task force continues to consider two of the issues: the allocation of power costs and rights to obtain deferred deliveries or credits for undelivered entitlement water. Most of the work on these issues is being carried out by technical subcommittees; therefore, meetings of the entire task force have been infrequent.

Figure 7: WATER SUPPLY CONTRACT AMENDMENTS AS OF DECEMBER 31, 1974

Contracting Agency	Minimum Project Yield Increased	Delta Water Charge, "Eel" Costs Delayed			Project Interest Rate Modified	Surcharge and Surcharge Credit Provisions						"Wet Weather" Provisions Added	"A & R" Surplus Water Provisions		Turnout Construction by Agency	Peaking Service		Annual Entitlements Revised	Excess Capacity Purchased	Article 28 Revised	Special Conditions
		1970	1971	1972 till construction		Added	Revised	Moratorium Declared			Deleted		Added	Revised		Increased	Decreased				
								Thru 1969	1970	1971											
FEATHER RIVER AREA																					
City of Yuba City	1	2P	2P	2P	2P	1					3P		1				1		NA		
County of Butte	1	3P	3P	3P	3P	1	2		4	5			1						NA		
Plumas County Flood Control and Water Conservation District	1	3	5	6	3	1	2	4	7	8			10							9	
NORTH BAY AREA																					
Napa County Flood Control and Water Conservation District	1	3	4	5	3	1					6		1								1,2
Solano County Flood Control and Water Conservation District	1	2	3P	3P	2	1					4P		1,5	1							
SOUTH BAY AREA																					
Alameda County Flood Control and Water Conservation District, Zone 7	2	6	8	9	6	2	5	7	10	11		1	2,12	3				1,4			1
Alameda County Water District	1	4	5	7	4	1	3		8	9		S	1	2						10	1,6
Santa Clara Valley Water District	2	6	8	10	6	2	5	7	11	12		1	1 2,14	3				1,4		13	1,9
SAN JOAQUIN VALLEY AREA																					
County of Kings		2	3	4	2		1		5	6		S	S 8								7
Devil's Den Water District	1	5	7	8	5		4	6	9	10			1,12					1,3		11	2
Dudley Ridge Water District	1	6	8	9	6		5	7	10	11			1,13					1,2 3,4		12	
Empire West Side Irrigation District	1	4	6	7	4		3	5	8	9		S	1,11					2		10	
Hacienda Water District	1	4	6	7	4		3	5	8	9		S	1,11					2		10	7
Kern County Water Agency	1	4	6	8	4		3	5	9	10			1,12					1,2		11	7
Oak Flat Water District		3	5	6	3		2	4	7	9		S	S 11	1				8		10	
Tulare Lake Basin Water Storage District	2	5	6	7	5		4		8	10		S	2,13					1,3,9 12		11	
CENTRAL COASTAL AREA																					
San Luis Obispo County Flood Control and Water Conservation District	2	3	4	5	3	1	2				6		1 2								7
Santa Barbara County Flood Control and Water Conservation District	2	3	4	5	3	1	2				6		1 2,7					2			
SOUTHERN CALIFORNIA AREA																					
Antelope Valley-East Kern Water Agency	1	5	6	7	5	1					8		1 10	3	2	1	4		9	2,3 4	
Castaic Lake Water Agency	2	4	5	6	4	1	2				7		1 2,10	2			2,3 9			8	
Coachella Valley County Water District	2	3	4	5	3	1	2				6		1 2,8					2		7	
Crestline-Lake Arrowhead Water Agency	2	5	6	7	5	1	2				8		1 2,11	4	3			2,10		9	
Desert Water Agency	2	3	4	5	3	1	2				6		1 2,8					2		7	
Littlerock Creek Irrigation District	2	3	4	5	3	1	2				6		1 2,7					2			
Mojave Water Agency	2	4	5	6	4	1	2				7		1 2			3		2		8	3
Palmdale Water District	2	3	4	5	3	1	2				6		1 2,8					2		7	
San Bernardino Valley Municipal Water District	2	4	5	6	4	1	2				7		1 2					1,2 3,9		8	
San Gabriel Valley Municipal Water District	2	4	5	6	4	1	2				7		1 2			2		2,9	3	8	
San Geronimo Pass Water Agency	2	4	5	6	4	1	2				7		1 2			2					2,3
The Metropolitan Water District of Southern California	1	9	10	11	9	1					13		1					1,3 8V,15	2,6 7	14	(a)
Ventura County Flood Control District	1	2	3	4	2	1					5		1							6	

P = Pending as of December 31, 1974
S = Special provisions of basic contract.

V = Amendment voided by subsequent actions.
a) Amendment Numbers 2, 3, 4, 5, 7, 8V, 12.

CHAPTER IV. PROJECT OPERATIONS, PROJECT VISITOR USE, AND RECREATION AND FISH AND WILDLIFE ACTIVITIES

Project Operations

Water Conditions

The 1973-74 water year (October 1, 1973 thru September 30, 1974) can be classed as above normal for most of California. Precipitation averaged 130 percent of normal over the State, compared with 115 percent of normal the year before. Only the southern portion of California, south of the Tehachapis, received less than normal amounts. Heavy tropical storms in January and late March brought floods to the Eel River, Upper Sacramento, and Russian River areas. Spring and summer snowmelt runoff into the Central Valley ranged from 115 percent of normal on the Tule River to 150 percent of normal in the Sacramento River headwater areas.

Because of the above-normal precipitation and runoff and the fact that the carryover storage in California reservoirs was 120 percent of normal (10 percent higher than the previous year), the Project entered the 1974-75 water year with excellent prospects for meeting statewide water commitments in the coming year. Details of water supply conditions

during the 1973-74 water year are available in DWR Bulletin 120-74, "Summary of Water Conditions in California".

Water Deliveries

Despite above-normal water conditions during 1974, water deliveries to state water contractors totaled 1,337,975 acre-feet. This is a 30 percent increase over deliveries made in 1973, which also had above-normal water conditions. The year 1974 was the third consecutive year that state water contractors have received over one million acre-feet from the Project.

Water deliveries to U. S. Bureau of Reclamation customers from the joint facilities exceeded one million acre-feet for the first time in project history. Bureau's 1974 water deliveries were 1,121,747 acre-feet, up 33 percent from 1973 deliveries.

Except for the San Francisco Bay area, water deliveries to project water contractors in all service areas during 1974 were above those made in 1973.