



State of California  
The Resources Agency

Department of  
Water Resources



# The California State Water Project— Current Activities and Future Management Plans.

Bulletin 132-80  
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**Department of  
Water Resources  
Bulletin 132-80**

# **The California State Water Project- Current Activities and Future Management Plans.**

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**The Resources  
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performance levels corresponding to project capabilities as facilities are developed. Briefly, the levels of development comprise: 1) prior to the operation of New Melones, 2) after New Melones is operational but before operation of the Peripheral Canal, and 3) after the Peripheral Canal is operational.

The SDWA has indicated that the proposal is unacceptable. In March of 1980, the Department proposed to reopen negotiation such that any differences remaining between the Agency and the Department after September 30 be submitted to arbitration. The SDWA also rejected that proposal. Before negotiations resume, SDWA wants to complete its joint study with WPRS. The study concerns the CVP and SWP impacts on south Delta water supplies.

- ° Central Delta Water Agency and Contra Costa County Water Agency.

No current negotiations are in progress with either entity.

- ° Byron-Bethany Irrigation District (BBID)

The Department has drafted a preliminary contract based on the North Delta Water Agency contract. The draft contract is presently being reviewed by BBID.

- ° East Contra Costa Irrigation District (ECCID).

During late 1979 and early 1980, meetings were held with ECCID to determine mutually acceptable contract qualities. Substantial agreement has been reached, and it is anticipated that a contract will be completed during 1980. This contract will assure ECCID of specified qualities at their present intake in Indian Slough. The contract will not require landowner ratification, since the District is the

holder of the water rights. If the Contra Costa Canal should be relocated along a low-level alignment in the future, the question of ECCID involvement will be considered at that time.

SB 200, when implemented, will amend the California Water Code to include provision that issues between the State and the delta water agencies concerning the rights of users to make use of the waters of the Delta may be resolved by arbitration.

#### WATER CONTRACTS MANAGEMENT

Thirty-one water agencies have entered into long-term contracts with the State for annual water supplies from the State Water Project. A list of these agencies, along with other information concerning each water agency and their service areas, is shown in Figure 5. As noted in Figure 5, cumulative deliveries (Column 2 of the Figure) include both Project and nonproject water deliveries from SWP facilities. (Annual water entitlement deliveries through 1979 are shown for each agency in Table B-5B of Appendix B.)

Project water supplies in 1979, were sufficient to meet all water contractor requests for SWP water deliveries. Although runoff in the Sacramento and Feather River basins during the 1979 water year (October 1, 1978 through September 30, 1979) was somewhat below normal, storage in SWP reservoirs was above normal as a result of a large holdover from the wet year of 1978. Actual use of Project water by contractors in 1979 was below September 1978 projections of use in 1979 for Southern California, South Bay, and Feather River service areas but slightly greater in the San Joaquin Valley. Overall, 1979 Project water deliveries, totaling over 2.9 million cubic dekametres (2.36 million acre-feet) during the year, were highest of record since the SWP began operations in 1962.

Table 3 of this and previous Bulletins in the 132 series shows annual delivery amounts of Project and nonproject water to both long-term contractors and all other agencies which received water deliveries from facilities of the State Water Project. Actual and projected annual deliveries of both Project and nonproject water to contractors and noncontractors are summarized in Table 1. Column 2 of Figure 5 shows that seven contractors have yet to receive water from Project water facilities. An eighth contractor, Napa County Flood Control and Water Conservation District, has received only nonproject water, which was pumped and delivered through the SWP facilities. The water contract of one of the eight contractors, Palmdale Water District, calls for deliveries of Project water beginning in 1972. However, the District has elected not to take water deliveries at this time. Contracts of the other seven specify initial deliveries to be made after 1979.

Several contractors have obtained far less water than the amount contracted for, because current needs are less than those projected at the time their contracts were signed in the early and mid-1960's. Differences between contracted amounts (annual entitlements) and actual deliveries through 1979 may be determined by comparing the annual entitlement values shown in Table B-4 to the actual delivered amounts shown in Table B-5B. In 1979, fourteen contractors took less Project water than their contracted 1979 entitlement amount (see Table 3). Overall cumulative State deliveries of all types of water since 1962, including deliveries of SWP surplus water to the 31 contractors, exceed the cumulative total of all annual contract entitlements through 1979.

Figure 5 also contains maximum annual entitlement amounts for each contracting agency, total payments by agencies through 1979, gross area assessed valu-

ation and population served by the SWP. The population totals, when compared to statewide amounts, show that the SWP accounts for a substantial part of the statewide totals.

#### Water Deliveries in 1979

During 1979, the SWP provided water service to 36 agencies. These agencies included 23 long-term contractors and 13 noncontractors. Monthly deliveries to each of the 36 are shown in Table 3 and summarized as follows:

- ° 1 728 494 cubic dekametres (1,401,292 acre-feet) of 1979 entitlement water to 23 long-term contractors.
- ° 247 455 cubic dekametres (200,604 acre-feet) of entitlement makeup water, under Article 12(d) of the long-term contracts, resulted from reduced water deliveries during the 1977 drought.
- ° 8 635 cubic dekametres (7,000 acre-feet) of entitlement makeup water under Article 14(b) of the long-term contract.
- ° 62 908 cubic dekametres (51,000 acre-feet) of entitlement water to two contractors under delivery rights acquired pursuant to the "wet weather" provisions in Article 45 of their long-term contracts.
- ° 799 788 cubic dekametres (648,389 acre-feet) of surplus water to six long-term contractors and two noncontractors.
- 24 732 cubic dekametres (20,050 acre-feet) of emergency relief water to one long-term contractor and one noncontractor.
- ° 6 285 cubic dekametres (5,095 acre-feet) of preconsolidation repayment water to Belridge Oil Company.

- ° 33 862 cubic dekametres (27,452 acre-feet) of local water to three long-term contractors and two noncontractors.
- ° 37 005 cubic dekametres (30,000 acre-feet) of 1978 exchange water conveyed to Southern California storage in ground water basins within the Metropolitan Service area.
- ° 129 588 cubic dekametres (105,033 acre-feet) of Federal CVP water wheeled for eight San Joaquin Valley agencies.

Entitlement Water Deliveries. Every fall the State obtains from each contractor an estimate of its future requirements for Project water. Estimates received in the fall of 1978 showed that 23 contractors projected need for 2 288 746 cubic dekametres (1,855,003 acre-feet) of entitlement water in 1979 plus substantial quantities of surplus and entitlement makeup water. The approved report, entitled "Operational Criteria for the State Water Project in 1979" (The Rule Curve), showed that on the basis of water supply conditions as of December 1, 1978 and Project water then in storage, all requested entitlement and entitlement makeup water could be delivered in 1979. Based on this, schedules approving the 1979 delivery of 2 261 632 cubic dekametres (1,833,508 acre-feet) of entitlement water were issued on December 15, 1978. Approved scheduled amounts were the same as the amounts requested in the fall, except for two schedules that were reduced at the water contractors' request.

Total 1979 deliveries of entitlement water, as shown in Tables 2 and 3, were 2 132 097 cubic dekametres (1,401,292 acre-feet). The substantial difference between the amounts initially approved and actual entitlement deliveries was mainly because local water supplies in Southern California in 1979 were well above normal as a result of above-normal rainfall during the spring of 1979.

Therefore, the need for project water in that area, especially for maintaining ground water basins, was well below that anticipated in the fall of 1978. State-wide, 12 contractors in 1979 took a total of 533 138 cubic dekametres (432,216 acre-feet) less entitlement water than they had been initially scheduled to receive.

Makeup Water Deliveries. Each of the contractors scheduled to receive Project entitlement water during 1977, with the exception of Butte County and Plumas County Flood Control and Water Conservation District, acquired rights under Article 12(d) of the water supply contract to the future delivery of Project water. The future delivery amount equalled the reduction in the initially scheduled 1977 entitlement delivery amounts made due to the drought. In addition, two contractors, Antelope Valley-East Kern Water Agency and The Metropolitan Water District of Southern California, acquired future delivery rights to 5 905 cubic dekametres (4,787 acre-feet) pursuant to Article 14(b); and 32 872 cubic dekametres (26,649 acre-feet) pursuant to Article 12(b) of their water contract as a result of a 1976 nondelivery.

During 1979, 5 contractors (shown in Column 3 of Table 2) took delivery of a total of 247 455 cubic dekametres (200,604 acre-feet) of Article 12(d) water. In addition, Kern County Water Agency took delivery of the 8 635 cubic dekametres (7,000 acre-feet) of Article 14(b) water.

Rights to the future delivery of previously undelivered entitlement water acquired under contract articles 12(d) and 14(b) as of January 1, 1980, are shown in Column 9 of Table 2. Twelve contractors have such rights in a total of 182 100 cubic dekametres (147,629 acre-feet).

### Deliveries Under Wet Weather

Provisions. At the beginning of 1979, four contractors had acquired credits totaling 262 158 cubic dekametres (212,532 acre-feet) for future delivery of entitlement water under the wet weather provisions of their contracts; these water agencies can acquire credits to future deliveries if above-normal supplies of local water are available within their service areas during the year. Two contractors, Hacienda Water District and Tulare Lake Basin Water Storage District, took delivery of 4 441 cubic dekametres (3,600 acre-feet) and 58 468 cubic dekametres (47,400 acre-feet), respectively, of such water during 1979, as shown in Tables 2 and 3. In both cases, the amount taken was limited by the contract to the difference between the Districts' 1979 annual entitlement and their maximum annual entitlements. Tulare's 1979 entitlement was increased after 1979 deliveries were completed, due to the amount of Project surplus water obtained. The restriction on the "wet weather" water, however, was based on the District's initial 1979 entitlement amount rather than the revised amount.

Devil's Den Water District and Empire West Side Irrigation District requested that they be permitted to carry over unused entitlement water to a drier year because of wet local conditions. Since both contractors are scheduled to receive their maximum annual entitlement, contract "wet weather provisions" cannot be utilized. (Under the "wet weather" provisions, deliveries in any year of water carried over from a wet year, plus the annual entitlement for that year, cannot exceed the maximum annual entitlement). Special agreements were developed for Devil's Den and Empire Westside I. D. to allow for this situation. The agreements provide that entitlements that cannot be used by the contractor can be stored in project reservoirs for up to three years, with the contractor paying a use-of-facilities charge for such storage. At

the beginning of 1980, 1 555 cubic dekametres (1,261 acre-feet) of 1979 entitlement water was in storage for Empire (see Table 2).

Repayment Water Deliveries. The State entered into two contracts in 1964 to obtain water to preconsolidate land within the alignment of the California Aqueduct. The contracts included provisions to repay the two contractors with Project water prior to 1985. The contracts, which have changed hands over the years, are currently held by the Belridge Oil Company and the J. G. Boswell Company. During 1979, 6 285 cubic dekametres (5,095 acre-feet) were delivered to Belridge with no deliveries to Boswell. The balance of water to be delivered under the contracts as of January 1, 1980, was 104 718 cubic dekametres (84,895 acre-feet) to Boswell and 65 230 cubic dekametres (52,882 acre-feet) to Belridge. An extension to both contracts beyond 1984 has been requested. The Department is analyzing the request. Substantial economic windfalls will accrue to the parties if extensions are granted.

Emergency Relief Water Deliveries. At the end of 1977, the State had 117 400 cubic dekametres (95,176 acre-feet) of emergency relief water in storage. This water was being retained for emergency relief in 1978. When it became apparent that the 1976-77 drought was over, the stored water was sold (see pages 88 and 89 of Bulletin 132-79). Tracy Golf and Country Club purchased 62 cubic dekametres (50 acre-feet) of the stored water and took delivery of it in 1979. Kern County Water Agency purchased 116 598 cubic dekametres (94,256 acre-feet) of the stored water. During 1979 the Agency took delivery of 24 670 cubic dekametres (20,000 acre-feet) of this water. The remainder must be taken by the end of 1983. The amount of emergency relief water still remaining to be delivered to Kern as of January 1, 1980 was 91 928 cubic dekametres (74,526 acre-feet).

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
1975	1,610	0	124,500	556,509	0	704,250	1,386,869
1976	1,990	0	126,500	555,117	0	824,780	1,508,387
1977	2,420	0	128,600	594,100	0	942,201	1,667,321
1978	1,850	0	130,700	647,262	0	1,060,722	1,840,534
1979	2,130	0	132,700	715,385	0	1,177,873	2,028,088
<b>Subtotal, 1962-1979</b>	<b>16,060</b>	<b>0</b>	<b>1,454,638</b>	<b>5,067,166</b>	<b>0</b>	<b>5,972,169</b>	<b>12,510,033</b>
1980	2,310	13,000	134,800	770,800	2,200	1,304,914	2,228,024
1981	6,840	14,400	137,000	828,500	3,300	1,425,865	2,415,905
1982	7,470	15,800	139,200	889,200	6,600	1,546,806	2,605,076
1983	8,150	17,200	141,400	955,500	9,900	1,668,557	2,800,707
1984	8,830	29,600	143,600	1,017,900	14,900	1,790,398	3,005,228
1985	9,510	32,750	145,800	1,079,100	24,800	1,912,549	3,204,509
<b>6 years, 1980-1985</b>	<b>43,110</b>	<b>122,750</b>	<b>841,800</b>	<b>5,541,000</b>	<b>61,700</b>	<b>9,649,089</b>	<b>16,259,449</b>
<b>10 years, 1986-1995</b>	<b>252,920</b>	<b>587,500</b>	<b>1,650,200</b>	<b>13,032,300</b>	<b>688,000</b>	<b>23,869,646</b>	<b>40,080,566</b>
<b>10 years, 1996-2005</b>	<b>386,460</b>	<b>670,000</b>	<b>1,878,000</b>	<b>13,550,000</b>	<b>827,000</b>	<b>24,975,000</b>	<b>42,286,460</b>
<b>10 years, 2006-2015</b>	<b>393,170</b>	<b>670,000</b>	<b>1,880,000</b>	<b>13,550,000</b>	<b>827,000</b>	<b>24,975,000</b>	<b>42,295,170</b>
<b>10 years, 2016-2025</b>	<b>398,000</b>	<b>670,000</b>	<b>1,880,000</b>	<b>13,550,000</b>	<b>827,000</b>	<b>24,975,000</b>	<b>42,300,000</b>
<b>10 years, 2026-2035</b>	<b>398,000</b>	<b>670,000</b>	<b>1,880,000</b>	<b>13,550,000</b>	<b>827,000</b>	<b>24,975,000</b>	<b>42,300,000</b>

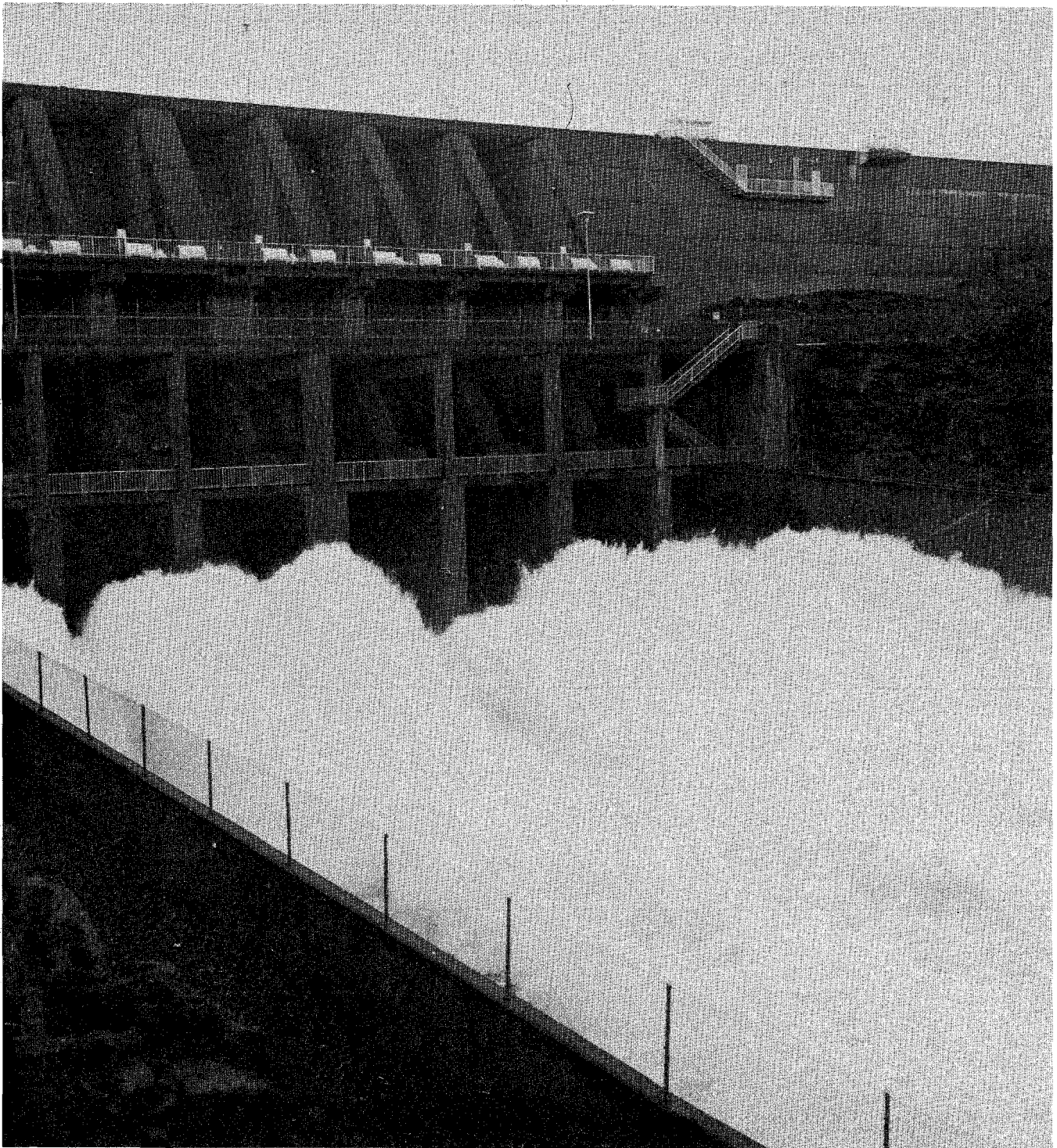
- a) Metric conversion is acre-feet times 1.2335 equals cubic dekametres.
- b) Includes 1,401,292 acre-feet of 1979 entitlement water; and 258,604 acre-feet of deferred deliveries pursuant to contract articles 12(d), 14(b), and 45(e).
- c) Includes 1,843,669 acre-feet 1980 entitlement water and 35,712 acre-feet of deferred deliveries pursuant to Article 12(d) and 45(e) of contracts.
- d) Values include deliveries to short-term contractors (Mustang Water District, 1970-71; Tracy Golf and Country Club, 1974, and 1979; Green Valley Water District 1974-75 (1978, and 1979).
- e) Includes Emergency Relief Water, Repayment Water, Kern River Intertie Water, Exchange Water, Regulated Delivery of Local Supply and Conveyance of Federal CVP 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 Water	Other Water	Total					
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
0	0	18,289	18,289	9	272	0	18,570	1962
0	0	22,456	22,456	71	185	0	22,712	1963
0	0	32,507	32,507	171	152	0	32,830	1964
0	0	44,105	44,105	93	729	0	44,927	1965
0	0	67,928	67,928	0	1,746	0	69,674	1966
11,538	0	53,605	65,143	8,328	4,212	0	77,683	1967
171,709	121,534	14,777	308,020	498,926	117,906	0	924,852	1968
193,020	72,397	18,829	284,246	510,614	72,196	0	867,056	1969
233,993	133,024	38,080	405,097	23,947	2,435	0	431,479	1970
357,340	296,019	44,119	697,478	7,853	5,812	8	711,151	1971
611,801	423,964	66,638	1,102,403	100,274	53,062	6,489	1,262,228	1972
694,388	296,416	42,511	1,033,315	204,638	53,798	1,155	1,292,906	1973
874,077	417,676	46,224	1,337,977	237,554	10,657	2,118	1,588,306	1974
1,223,990	622,902	63,793	1,910,685	103,352	-94,606	3,377	1,922,808	1975
1,373,002	580,110	115,217	2,068,329	61,122	-681,025	1,745	1,450,171	1976
574,155	0	389,065	963,220	0	-131,151	1,111	833,180	1977
1,452,699	16,914	121,225	1,590,838	64,443	717,370	1,177	2,373,828	1978
1,659,896 <sup>(b)</sup>	648,389	187,630	2,495,915	12,302	-83,401	1,398	2,426,214	1979
9,431,608	3,629,345	1,386,998	14,447,951	1,833,697	50,349	18,578	16,350,575	18 years, 1962-1979
1,879,381 <sup>(c)</sup>	597,797	347,277	2,824,455	0	69,505	7,744	2,901,704	1980
2,007,341	871,321	281,157	3,159,819	0	106,548	14,883	3,281,250	1981
2,117,309	723,000	194,077	3,034,386	0	67,902	17,027	3,119,315	1982
2,195,603	509,000	279,692	2,984,295	0	160,141	19,427	3,163,863	1983
2,359,063	457,000	162,832	2,978,895	0	65,500	20,077	3,064,472	1984
2,428,014	290,000	124,632	2,842,646	0	115,311	20,077	2,978,034	1985
12,986,711	3,448,118	1,389,667	17,824,496	0	584,907	99,235	18,508,638	6 years, 1980-1985
29,424,976	-	-	29,424,976	0	938,998	232,452	30,596,426	10 years, 1986-1995
32,107,280	-	-	32,107,280	0	914,016	240,300	33,261,596	10 years, 1996-2005
36,255,070	-	-	36,255,070	0	934,417	240,300	37,429,787	10 years, 2006-2015
39,255,300	-	-	39,255,300	0	925,983	240,300	40,421,583	10 years, 2016-2025
40,546,290	-	-	40,546,290	0	894,816	240,300	41,681,406	10 years, 2026-2035





Controlled flood releases were made in January 1980 from Lake Oroville for the first time since 1974. The peak spillway release of 2 000 cubic metres per second (70,000 cfs) exceeded the previous high of 1 700 cubic metres per second (59,000 cfs). In addition to the spillway release, 420 cubic metres per second (15,000 cfs) was passed through Hyatt Powerplant for a total peak release rate of 2 420 cubic metres per second (85,000 cfs). Inflow to the lake peaked at 4 400 cubic metres per second (155,000 cfs): the previous record inflow as 4 100 cubic metres per second (144,000 cfs) in 1970.

TABLE 2: SUMMARY OF 1979 ENTITLEMENT AND SURPLUS WATER SERVICE TO LONG-TERM CONTRACTORS

(acre-feet)<sup>(a)</sup>

Long-Term Contractor	Entitlement Water Deliveries				Surplus Water	Total Deliveries	Future Entitlement Delivery Credit as of 1/1/80			Future Entitlement Reduction Credit- Article 7 or 45
	1979 Entitlement	Article 12(d)	Other	Total			Article 7 or 45	Articles 12(d) and 14(b)	Total	
(1)	(2)	(3)	(4)	(5)=(2)+(3)=(4)	(6)	(7)=(5)+(6)	(8)	(9)	(10)	(11)
<u>UPPER FEATHER RIVER</u>										
Butte County	302	0	-	302	0	302	-	0	0	-
Plumas County	329	0	-	329	0	329	-	0	0	-
<u>SOUTH BAY AREA</u>										
Alameda County										
FC&WCD, Zone 7	19,325	0	0	19,325	0	19,325	53,741	2,438	56,179	0
Alameda County WD	10,874	0	0	10,874	0	10,874	96,609	2,220	98,829	0
Santa Clara Valley WD	88,000	3,991	0	91,991	15,998	107,989	0	0	0	0
<u>SAN JOAQUIN VALLEY AREA</u>										
County of Kings	2,000	0	-	2,000	0	2,000	-	0	0	-
Devil's Den WD	12,700	6,438	0	19,138	0	19,138	-	1,182	1,182	-
Dudley Ridge WD	38,544	0	-	38,544	38,545	77,089	0	0	0	-
Empire West Side ID	1,739	0	0	1,739	0	1,739	1,261 <sup>f</sup>	1,800	3,061	-
Hacienda WD	4,900	0	3,600 <sup>e</sup>	8,500	1,000	9,500	1,000	0	1,000	0
Kern County WA	583,900	155,146	7,000 <sup>d</sup>	746,046	544,247 <sup>e</sup>	1,290,293	-	0	0	-
Oak Flat WD	4,000	2,149	0	6,149	698	6,847	0	0	0	2,466
Tulare Lake Basin WSD	66,341	32,880	47,400 <sup>c</sup>	146,621	66,342	212,963	10,182	0	10,182	74,852
<u>SOUTHERN CALIFORNIA AREA</u>										
Antelope Valley-East Kern WA	60,493	0	-	60,493	0	60,493	-	31,372 <sup>g</sup>	31,372	-
Castaic Lake WA	7	0	-	7	0	7	-	500	500	-
Coachella Valley WD	10,063	0	-	10,063	0	10,063	-	0	0	-
Crestline-Lake Arrowhead WA	1,260	0	-	1,260	0	1,260	-	151	151	-
Desert WA	15,000	0	-	15,000	0	15,000	-	0	0	-
Littlerock Creek ID	133 <sup>b</sup>	0	-	133	0	133	-	438	438	-
Mojave WA	4,000	0	-	4,000	0	4,000	-	20	20	-
Palmdale WD	0	0	-	0	0	0	-	0	0	-
San Bernardino Valley MWD	18	0	-	18	0	18	-	4,269	4,269	-
San Gabriel Valley MWD	290	0	-	290	0	290	-	1,000	1,000	-
The Metropolitan Water District of SC	477,074	0	-	477,074	0	477,074	-	102,239	102,239	-
TOTAL	1,401,292	200,604	58,000	1,659,896	666,830	2,326,726	162,793	147,629	310,422	77,318

a) Metric conversion is acre-feet times 1.2335 equals cubic dekameters.

b) This water was acquired from project water which was stored during 1978 in a ground water basin underlying the Agency.

c) Delivered pursuant to Article 45(e)(4) of the water supply contract (wet weather provisions).

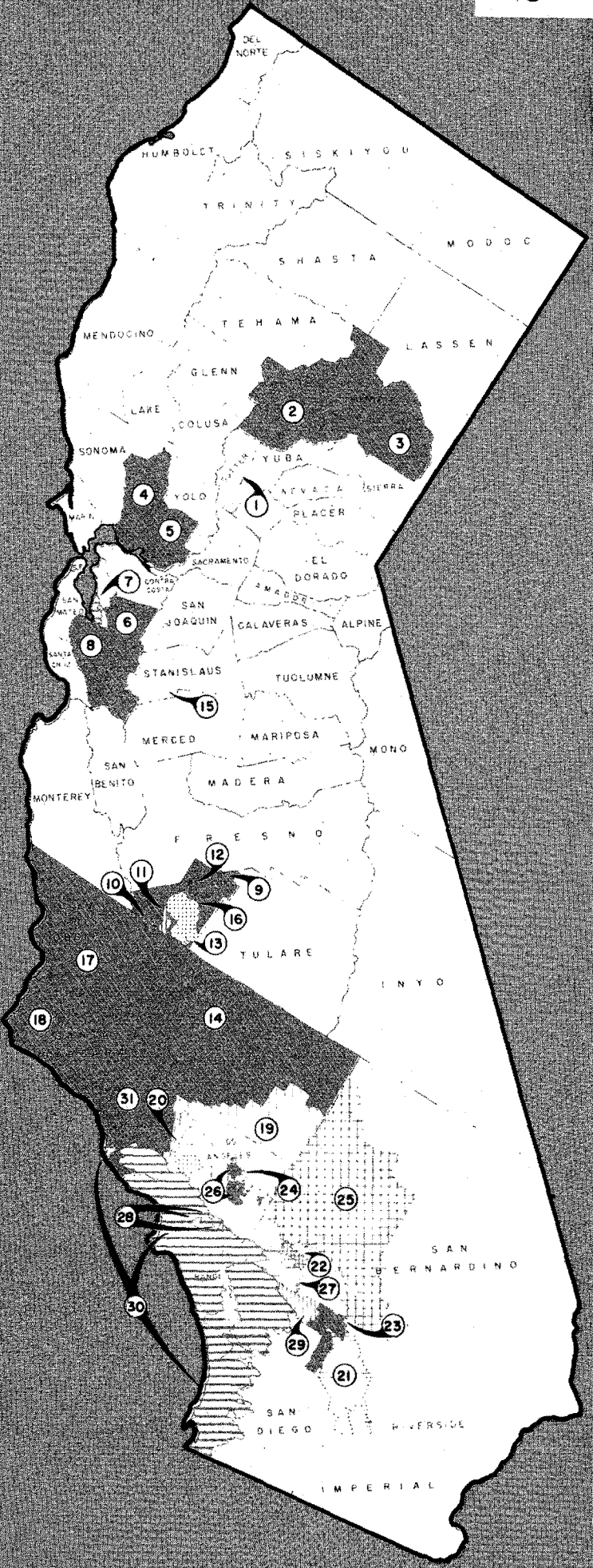
d) Delivered pursuant to Article 14(b).

e) Includes 20,000 acre-feet of Emergency Relief Water.

f) At end of 1979 this water was being held in storage for later delivery under an agreement with District dated October 1, 1979.

g) Made up of 4,787 acre-feet acquired under contract Article 14(b) and 26,585 acre-feet under Article 12(d).

# Figure 5: LONG-TERM WATER SUPPLY



Location No.	Contracting Agency	Total Cumulative Deliveries through Dec. 31, 1979 (acre-feet) <sup>a</sup>	Maximum Annual Entitlement (acre-feet) <sup>a</sup>
<b>UPPER FEATHER AREA</b>			
	(1)	(2)	(3)
1	City of Yuba City	0	9,600
2	County of Butte	2,925	27,500
3	Plumas County Flood Control and Water Conservation District	3,663	2,700
	<b>Subtotal</b>	<b>6,588</b>	<b>39,800</b>
<b>NORTH BAY AREA</b>			
4	Napa County Flood Control and Water Conservation District	57,132	25,000
5	Solano County Flood Control and Water Conservation District	0	42,000
	<b>Subtotal</b>	<b>57,132</b>	<b>67,000</b>
<b>SOUTH BAY AREA</b>			
6	Alameda County Flood Control and Water Conservation Dist., Zone 7	188,293	46,000
7	Alameda County Water District	272,711	42,000
8	Santa Clara Valley Water District	1,170,331	100,000
	<b>Subtotal</b>	<b>1,631,335</b>	<b>188,000</b>
<b>SAN JOAQUIN VALLEY AREA</b>			
9	County of Kings	17,900	4,000
10	Devil's Den Water District	160,869	12,700
11	Dudley Ridge Water District	591,961	57,700
12	Empire West Side Irrigation District	45,567	3,000
13	Hacienda Water District	69,695	8,500
14	Kern County Water Agency	6,578,031	1,153,400
15	Oak Flat Water District	67,791	5,700
16	Tulare Lake Basin Water Storage District	1,244,520	110,000
	<b>Subtotal</b>	<b>8,776,334</b>	<b>1,355,000</b>
<b>CENTRAL COASTAL AREA</b>			
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
	<b>Subtotal</b>	<b>0</b>	<b>82,700</b>
<b>SOUTHERN CALIFORNIA AREA</b>			
19	Antelope Valley-East Kern Water Agency	175,166	138,400
20	Castaic Lake Water Agency	7	41,500
21	Coachella Valley Water District	46,947	23,100
22	Crestline-Lake Arrowhead Water Agency	6,885	5,800
23	Desert Water Agency	72,300	38,100
24	Little Rock Creek Irrigation District	3,092	2,300
25	Mojave Water Agency	4,733	50,800
26	Palm Dale Water District	0	17,300
27	San Bernardino Valley Municipal Water District	105,350	102,600
28	San Gabriel Valley Municipal Water District	29,190	28,800
29	San Geronimo Pass Water Agency	0	17,300
30	The Metropolitan Water District of Southern California	2,911,968	2,011,500
31	Ventura County Flood Control District	0	20,000
	<b>Subtotal</b>	<b>3,355,638</b>	<b>2,497,500</b>
	<b>TOTAL STATE WATER PROJECT</b>	<b>13,827,027</b>	<b>4,230,000</b>
<b>NET TOTALS, STATE WATER PROJECT SERVICE AREA</b>			
<b>TOTAL, STATE OF CALIFORNIA</b>			
<b>PERCENT, STATE WATER PROJECT OF TOTAL</b>			

a) Metric conversion is acre-feet times 1.2335 equals cubic dekameters.  
b) Metric conversion is acres times 0.040469 equals hectares.  
c) Total for Plumas County Flood Control and Water Conservation District, including Last Chance Creek Water District.  
d) Total for County of Kings, 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.

# CONTRACTING AGENCIES

Total Payments through Dec. 31, 1979 (dollars)	Gross Area as of July 1, 1979 (acres) <sup>(b)</sup>	Assessed Valuation 1979-1980 (dollars)	Estimated Population (July 1, 1979)	Loca- tion No.
(4)	(5)	(6)	(7)	
0	3,290	76,700,000	17,600	1
242,403	1,066,000	618,700,000	133,600	2
225,817	1,644,000 <sup>(c)</sup>	153,000,000 <sup>(c)</sup>	15,400 <sup>(c)</sup>	3
468,220	2,713,290	848,400,000	166,600	
3,035,636	512,000	478,511,307	94,000	4
239,884	558,000	1,068,000,000	218,500	5
3,275,520	1,070,000	1,546,511,307	312,500	
9,247,010	272,000	520,000,000	108,000	6
11,173,206	63,000	1,016,000,000	188,000	7
42,760,439	849,000	7,588,000,000	1,247,000	8
63,180,655	1,184,000	9,124,000,000	1,543,000	
330,731	893,000 <sup>(d)</sup>	324,551,300 <sup>(d)</sup>	71,900 <sup>(d)</sup>	9
3,407,681	8,500	1,258,700	50	10
7,084,911	29,900	3,539,600	50	11
564,295	7,500	744,600	50	12
836,460	15,300	244,800	50	13
120,102,706	5,057,200 <sup>(e)</sup>	3,553,978,700 <sup>(e)</sup>	375,300 <sup>(e)</sup>	14
605,628	4,000	275,000	50	15
13,517,650	193,000	24,333,500	50	16
146,450,062	6,208,400	3,908,926,200	447,500	
2,241,491	2,131,300	1,045,739,903	147,200	17
5,269,941	1,756,900	1,596,436,593	295,100	18
7,511,432	3,888,200	2,642,176,496	442,300	
30,400,320	1,524,900	632,413,655	97,500	19
11,985,509	125,000	415,829,058	69,600	20
7,642,399	637,500	658,423,676	86,900	21
2,250,702	55,100	116,972,410	10,900	22
12,445,081	208,900	472,054,946	49,000	23
553,885	43,300	9,271,630	1,600	24
13,866,893	3,160,400	590,842,960	91,600	25
3,714,805	73,800	83,499,064	25,700	26
43,686,373	209,400	1,132,364,528	326,500	27
11,645,403	16,300	626,151,563	148,000	28
6,325,840	140,600	113,460,854	32,300	29
713,697,130	3,268,310	64,117,662,775	11,387,000	30
5,023,411	1,179,500 <sup>(f)</sup>	2,868,580,095 <sup>(f)</sup>	499,500 <sup>(f)</sup>	31
863,237,751	10,643,010	71,837,527,214	12,826,100	
1,084,123,640	25,706,900 <sup>(g)</sup>	89,907,541,217 <sup>(g)</sup>	15,738,000 <sup>(g)</sup>	
	24,620,000 <sup>(h)</sup>	87,910,483,371 <sup>(h)</sup>	15,403,600 <sup>(h)</sup>	
	100,314,000	132,821,000,000	22,694,000	
	24.5	66.2	67.9	

e) Total Kern County Water Agency, including about 60% of Devil's Den Water District, and about 50% of Antelope Valley-East Kern Water Agency.

f) Total for Ventura County Flood Control District, including portion of Antelope Valley-East Kern Water Agency, The Metropolitan Water District of Southern California, and Castaic Lake Water Agency.

g) Includes duplicate values. Some areas which are within two or more agencies are included in each agency's total.

h) Excludes duplicate values where agencies have overlapping boundaries.

TABLE 3: WATER

(in acre)

Line No.	Contracting Agency and Type of Service	Month					
		Jan.	Feb.	Mar.	Apr.	May	June
<b>FEATHER RIVER SERVICE AREA</b>							
County of Butte:							
1.	Entitlement Water	36	7	75	36	20	2
Last Chance Creek Water District:							
2.	Regulated Delivery of Local Supply	0	0	0	0	2,791	2,711
Plumas County Flood Control & Water Cons. District:							
3.	Entitlement Water	6	6	3	1	27	71
Thermalito Irrigation District:							
4.	Regulated Delivery of Local Supply	1	6	1	21	138	193
5.	AREA TOTAL	43	19	79	58	2,976	2,977
<b>NORTH BAY SERVICE AREA</b>							
6.	Napa County Flood Control & Water Cons. District: Regulated Delivery of Local Supply	483	297	389	458	518	675
<b>SOUTH BAY SERVICE AREA</b>							
Alameda County Flood Control & Water Cons. Dist., Zone 7:							
7.	Entitlement Water	276	0	27	745	1,276	2,967
8.	Regulated Delivery of Local Supply	726	863	952	491	482	0
9.	Agency Total	1,002	863	979	1,236	1,758	2,967
Alameda County Water District:							
10.	Entitlement Water	465	0	0	716	929	2,357
11.	Regulated Delivery of Local Supply	539	659	1,005	489	735	855
12.	Agency Total	1,004	659	1,005	1,205	1,664	3,212
Santa Clara Valley Water District:							
13.	Entitlement Water	6,792	5,200	6,010	4,500	7,000	8,924
14.	Surplus Water	0	743	170	2,625	1,041	500
15.	Article 12(d) Make-up Water	260	0	1,290	1,000	1,000	441
16.	Agency Total	7,052	5,943	7,470	8,125	9,041	9,865
17.	AREA TOTAL	9,058	7,465	9,454	10,566	12,463	16,044
<b>SAN JOAQUIN VALLEY SERVICE AREA</b>							
Belridge Oil Company:							
18.	Repayment Water	0	398	388	440	480	457
County of Kings:							
19.	Entitlement Water	200	200	200	200	0	200
Devil's Den Water District:							
20.	Entitlement Water	1,471	762	1,270	1,582	69	1,397
21.	Article 12(d) Make-up Water	297	920	784	0	336	750
22.	Agency Total	1,768	1,682	2,054	1,582	405	2,147
Dudley Ridge Water District:							
23.	Entitlement Water	787	500	1,500	3,667	5,703	6,220
24.	Surplus Water	0	221	5,629	0	2,402	6,589
25.	Agency Total	787	721	7,129	3,667	8,105	12,809
Empire West Side Irrigation District:							
26.	Entitlement Water	659	246	106	11	12	0
Green Valley Water District:							
27.	Surplus Water	0	0	0	0	0	149
Hacienda Water District:							
28.	Entitlement Water	400	300	400	300	300	400
29.	Surplus Water	0	0	0	400	0	0
30.	Article 45(e) Wet Weather Water	0	0	0	0	0	0
31.	Agency Total	400	300	400	700	300	400
Kern County Water Agency:							
32.	Entitlement Water	11,911	21,358	41,458	38,068	51,481	99,420
33.	Surplus Water	0	0	0	0	22,770	61,217
34.	Article 12(d) Make-up Water	12,992	22,587	20,315	26,592	29,264	30,789
35.	Article 14(b) Make-up Water	0	0	0	3,000	3,000	1,000
36.	1977 Emergency Relief Water (b)	330	1,035	2,495	810	875	2,805
37.	Agency Total	25,233	44,980	64,268	68,470	107,390	195,231

a) Metric conversion is acre-feet times 1.2335 equals cubic dekameters.

b) Water acquired in 1977 for emergency relief purposes and later sold when drought ended.

# DELIVERIES IN 1979

feet)<sup>(a)</sup>

Spread 1 of 2

Month							1979 Contract Entitlement	1979 Entitlement Not Delivered	Net Cumulative Entitlement Not Delivered Thru		Line No.
July	Aug.	Sept.	Oct.	Nov.	Dec.	Total			1978	1979	
9	5	30	26	26	30	302	1,450	1,148	6,127	7,275	1.
2,045	629	316	0	0	0	8,492	-	-	-	-	2.
67	65	43	29	5	6	329	680	351	1,846	2,197	3.
212	211	196	87	72	45	1,183	-	-	-	-	4.
2,333	910	585	142	103	81	10,306	2,130	1,499	7,973	9,472	5.
721	714	700	579	416	611	6,561	-	-	-	-	6.
2,909	2,759	2,602	2,716	1,814	1,234	19,325	20,800	1,475	61,111	62,586	7.
0	0	0	0	98	472	4,084	-	-	-	-	8.
2,909	2,759	2,602	2,716	1,912	1,706	23,409	-	-	-	-	9.
1,635	1,518	1,165	871	425	793	10,874	23,900	13,026	118,095	131,121	10.
1,258	1,046	546	0	0	0	7,132	-	-	-	-	11.
2,893	2,564	1,711	871	425	793	18,006	-	-	-	-	12.
10,513	10,527	10,286	9,554	6,139	2,555	88,000	88,000	0	42,767	38,776	13.
0	0	0	1,000	3,793	6,126	15,998	-	-	-	-	14.
0	0	0	0	0	0	3,991	-	-	-	-	15.
10,513	10,527	10,286	10,554	9,932	8,681	107,989	-	-	-	-	16.
16,315	15,850	14,599	14,141	12,269	11,180	149,404	132,700	14,501	221,973	232,483	17.
486	501	465	494	502	484	5,095	-	-	-	-	18.
200	200	200	200	0	200	2,000	2,000	0	0	0	19.
1,905	2,900	390	0	400	554	12,700	12,700	0	7,625	1,187	20.
1,165	432	0	0	432	1,322	6,438	-	-	-	-	21.
3,070	3,332	390	0	832	1,876	19,138	-	-	-	-	22.
6,220	6,220	2,549	1,318	1,752	2,108	38,544	38,544	0	0	0	23.
10,534	7,320	669	1,319	1,752	2,108	38,545	-	-	-	-	24.
16,754	13,542	3,218	2,637	3,504	4,216	77,089	-	-	-	-	25.
0	0	0	0	91	614	1,739	3,000	1,261	1,808	3,069	26.
490	559	81	0	0	0	1,279	-	-	-	-	27.
600	600	500	400	300	400	4,900	4,900	0	4,600	1,000	28.
0	0	500	0	0	100	1,000	-	-	-	-	29.
1,000	2,500	100	0	0	0	3,600	-	-	-	-	30.
1,600	3,100	1,100	400	300	500	9,500	-	-	-	-	31.
124,739	116,430	34,438	15,282	11,046	18,269	583,900	583,900	0	162,146	0	32.
97,893	101,111	55,653	61,298	61,259	63,046	524,247	-	-	-	-	33.
12,607	0	0	0	0	0	155,146	-	-	-	-	34.
0	0	0	0	0	0	7,000	-	-	-	-	35.
4,615	4,555	1,145	405	445	485	20,000	-	-	-	-	36.
239,854	222,096	91,236	76,985	72,750	81,800	1,290,293	-	-	-	-	37.

TABLE 3: WATER

(in acre-

Line No.	Contracting Agency and Type of Service	Month					
		Jan.	Feb.	Mar.	Apr.	May	June
38.	Oak Flat Water District: Entitlement Water	133	0	43	720	720	720
39.	Surplus Water	0	0	0	0	0	0
40.	Article 12(d) Make-up Water	0	0	0	485	638	508
41.	Agency Total	133	0	43	1,205	1,358	1,228
	Tracy Golf and Country Club						
42.	Surplus Water	0	0	0	0	16	77
43.	1977 Emergency Relief Water (b)	0	6	6	8	30	0
44.	Agency Total	0	6	6	8	46	77
	Tulare Lake Basin Water Storage District:						
45.	Entitlement Water	3,800	2,400	0	2,400	0	7,400
46.	Surplus Water	3,509	0	10,404	0	0	0
47.	Article 12(d) Make-up Water	2,000	1,400	0	1,400	0	5,283
48.	Article 45(e) Wet Weather Water	0	2,958	0	3,063	2,274	0
49.	Agency Total	9,309	6,758	10,404	6,863	2,274	12,683
	United States Water and Power Resources Service:						
50.	Conveyance of Federal CVP Water	0	0	0	0	0	5,313
51.	AREA TOTAL	38,489	55,291	84,998	83,146	120,370	230,694
	SOUTHERN CALIFORNIA SERVICE AREA						
52.	Antelope Valley-East Kern Water Agency: Entitlement Water	363	358	773	4,541	8,310	9,617
53.	Castaic Lake Water Agency: Entitlement Water	1	0	0	0	1	1
54.	Coachella Valley Water District: Entitlement Water	838	838	838	838	838	838
55.	Crestline-Lake Arrowhead Water Agency: Entitlement Water	94	86	86	69	74	121
56.	Desert Water Agency: Entitlement Water	1,250	1,250	1,250	1,250	1,250	1,250
57.	Littlerock Creek Irrigation District: Entitlement Water	0	0	0	0	1	0
58.	Mojave Water Agency: Entitlement Water (c)	0	0	0	1,000	1,000	1,500
59.	Palmdale Water District	0	0	0	0	0	0
60.	San Bernardino Valley Municipal Water District: Entitlement Water	0	0	0	0	0	0
61.	San Gabriel Valley Municipal Water District: Entitlement Water	0	0	0	290	0	0
62.	The Metropolitan Water District of Southern California Entitlement Water	27,419	12,517	14,257	15,053	29,907	63,621
63.	1978 Emergency Relief Water (d)	2,903	2,447	2,782	2,309	2,554	2,762
64.	Agency Total	30,322	14,964	17,039	17,362	32,461	66,383
65.	AREA TOTAL	32,868	17,496	19,986	25,350	43,935	79,710
	ALL AGENCIES						
66.	Entitlement Water	56,901	46,028	68,296	75,987	108,918	207,026
67.	Surplus Water	3,509	964	16,203	3,025	26,229	68,532
68.	Article 12(d) Make-up Water	15,549	24,907	22,389	29,477	31,238	37,771
69.	Article 14(b) Make-up Water	0	0	0	3,000	3,000	1,000
70.	Article 45(e) Wet Weather Water	0	2,958	0	3,063	2,274	0
71.	1977 Emergency Relief Water	330	1,041	2,501	818	905	2,805
72.	1978 Emergency Relief Water	2,903	2,447	2,782	2,309	2,554	2,762
73.	Repayment Water	0	398	388	440	480	457
74.	Subtotal	79,192	78,743	112,559	118,119	175,598	320,353
75.	Regulated Delivery of Local Supply	1,749	1,825	2,347	1,459	4,664	4,434
76.	Conveyance of Federal CVP Water	0	0	0	0	0	5,313
77.	TOTAL WATER	80,941	80,568	114,906	119,578	180,262	330,100

- a) Metric conversion is acre-feet times 1.2335 equals cubic dekameters.
- b) Water acquired in 1977 for emergency relief purposes and later sold when drought ended.
- c) This entitlement water was put in storage by the State in a ground water basin underlying the Agency in 1978 and pumped from that basin by the Agency for its use during 1979.
- d) This water was acquired by the State in early 1978 for emergency relief purposes and later sold to Kern County Water Agency (25,000 acre-feet) and Dudley Ridge Water District (5,000 acre-feet). In 1979 it was conveyed to Metropolitan for storage in local ground water basins. By 1983 equivalent deliveries will be made to Kern County Water Agency, and Dudley Ridge Water District, under the 1978 emergency drought relief program.

# DELIVERIES IN 1979

feet)<sup>(a)</sup>

Spread 2 of 2

Month							1979 Contract Entitlement	1979 Entitlement Not Delivered	Net Cumulative Entitlement Not Delivered Thru		Line No.
July	Aug.	Sept.	Oct.	Nov.	Dec.	Total			1978	1979	
720	720	211	13	0	0	4,000	4,000	0	2,149	0	38.
81	67	0	178	118	254	698	-	-	-	-	39.
518	0	0	0	0	0	2,149	-	-	-	-	40.
1,319	787	211	191	118	254	6,847	-	-	-	-	41.
58	54	51	0	14	10	280	-	-	-	-	42.
0	0	0	0	0	0	50	-	-	-	-	43.
58	54	51	0	14	10	330	-	-	-	-	44.
11,000	11,000	11,200	7,200	0	9,941	66,341	66,341	0	90,462	10,182	45.
267	3,458	0	11,974	15,580	21,150	66,342	-	-	-	-	46.
7,317	5,800	4,626	5,054	0	0	32,880	-	-	-	-	47.
10,163	8,842	400	1,600	8,600	9,500	47,400	-	-	-	-	48.
28,747	29,100	16,226	25,828	24,180	40,591	212,963	-	-	-	-	49.
26,780	54,151	12,117	4,424	718	1,530	105,033	-	-	-	-	50.
319,358	327,422	125,295	111,159	103,009	132,075	1,731,306	715,385	1,261	268,790	15,438	51.
11,489	10,646	8,221	4,429	928	818	60,493	63,000	2,507	168,479	170,986	52.
1	1	0	1	1	0	7	15,300	15,293	52,436	67,729	53.
838	838	838	838	838	845	10,063	10,063	0	12,779	12,779	54.
151	143	140	108	95	93	1,260	2,610	1,350	4,471	5,821	55.
1,250	1,250	1,250	1,250	1,250	1,250	15,000	15,000	0	19,700	19,700	56.
81	0	0	33	18	0	133	1,040	907	1,382	2,289	57.
500	0	0	0	0	0	4,000	24,900	20,900	107,951	128,851	58.
0	0	0	0	0	0	0	10,260	10,260	38,860	49,120	59.
0	0	18	0	0	0	18	62,500	62,482	203,345	265,827	60.
0	0	0	0	0	0	290	16,600	16,310	52,622	68,932	61.
64,781	63,415	58,499	48,352	37,170	42,083	477,074	956,600	479,526	1,024,974	1,504,500	62.
3,446	3,881	3,354	3,024	538	0	30,000	-	-	-	-	63.
68,227	67,296	61,853	51,376	37,708	42,083	507,074	-	-	-	-	64.
82,537	80,174	72,320	58,035	40,838	45,089	598,338	1,177,873	609,535	1,686,999	2,296,534	65.
239,608	229,237	132,580	92,620	62,298	81,793	1,401,292	2,028,088	626,796	2,185,735	2,553,927	66.
109,323	112,571	56,954	75,769	82,516	92,794	648,389	-	-	-	-	67.
21,607	6,232	4,626	5,054	432	1,322	200,604	-	-	-	-	68.
0	0	0	0	0	0	7,000	-	-	-	-	69.
11,163	11,342	500	1,600	8,600	9,500	51,000	-	-	-	-	70.
4,615	4,555	1,145	405	445	485	20,050	-	-	-	-	71.
3,446	3,881	3,354	3,024	538	0	30,000	-	-	-	-	72.
486	501	465	494	502	484	5,095	-	-	-	-	73.
390,248	368,319	199,624	178,966	155,331	186,378	2,363,430	-	-	-	-	74.
4,236	2,600	1,758	666	586	1,128	27,452	-	-	-	-	75.
26,780	54,151	12,117	4,424	718	1,530	105,033	-	-	-	-	76.
421,264	425,070	213,499	184,056	156,635	189,036	2,495,915	2,028,088	626,796	2,185,735	2,553,927	77.



1978 Exchange Water Deliveries. During 1978, the State acquired 37 005 cubic dekametres (30,000 acre-feet) of Project water from the Metropolitan Water District through an exchange agreement. Under the agreement, Metropolitan pumped additional Colorado River water for its use in lieu of taking delivery of the Project water in January of that year. The exchange water was intended for use in meeting 1978 emergency needs in case the 1976-77 drought continued. Arrangements had been made to obtain up to 246 200 cubic dekametres (200,000 acre-feet) for such purposes. The radical change in weather conditions in California beginning in early February 1978 ended the need to acquire further exchange water as it became apparent that the drought had ended.

Under an agreement between the State, Metropolitan, and Kern County Water Agency and another agreement between the State, Metropolitan, and Dudley Ridge Water District, Kern purchased 30 838 cubic dekametres (25,000 acre-feet) and Dudley purchased 6 168 cubic dekametres (5,000 acre-feet) of the exchange water. The agreements provide that Kern and Dudley must utilize the water prior to March 31, 1983.

Ground Water Demonstration Deliveries. The State and Mojave Water Agency entered into a contract in 1978 establishing a ground water demonstration project involving the storage of project water in a ground water basin within Mojave's boundaries (see page 89 and 90 of Bulletin 132-79). In 1978, 29 214 cubic dekametres (23,684 acre-feet) of water was transported to the basin for storage. In 1979, 4 934 cubic dekametres (4,000 acre-feet) of entitlement water was withdrawn from the basin for Mojave's use.

In accordance with the guidelines for funding costs under the ground water demonstration program, the agency paid Transportation Charges for this project water as though it had been delivered

through SWP facilities from the Delta with the payment credited to Project conservation costs.

A second ground water demonstration project was established in 1978 under agreements between the State and the San Bernardino Valley Municipal Water District (see page 90 of Bulletin 132-79). Activities in connection with this program in 1979 included conveying 4 970 cubic dekametres (4,029 acre-feet) of SWP water from the Delta to Reach 26A for delivery to San Bernardino and the transportation by the District to local ground water recharge areas. Total water stored as of January 1, 1980 under the project was 16 375 cubic dekametres (13,275 acre-feet). All State costs and District incremental costs incurred in connection with the storage of this water, including the power costs incurred by the State in transporting the water from the Delta to Reach 26A and the Delta Water Charge on each acre-foot stored, have been assigned as project conservation costs. During 1979, applicable District costs under this project totaled \$20,145. The District was issued credits for this amount plus a Delta Water Charge credit of \$46,058.

Surplus Water Deliveries. Seven contractors estimated in September 1978 that they could use 904 798 cubic dekametres (733,521 acre-feet) of surplus water during 1979. When initial schedules of 1979 water deliveries were approved in late December 1979, based on Rule Curve Criteria for 1979 and December 1, 1979 water conditions, there was no assurance that surplus water would be available on a scheduled basis during 1979. However, extra surplus water was available, and some of this water was scheduled and delivered on an informal basis. At the same time, efforts were made to develop a comprehensive program that would provide for the utilization of extra surplus water without adversely affecting the cost or quantity of other Project water deliveries. Extra surplus water

is deliverable water available in the Delta in excess of that needed to meet Project storage requirements, scheduled delivery requirements, and Delta water quality requirements.

Monthly meetings between contractor and Department representatives were held from December 1978 through March 1979 to discuss the Rule Curve monthly updates on water supply conditions for 1979. At the March 12 meeting, the Department was able to announce that surplus water would be available in an amount necessary to satisfy all their current requests. Approved schedules calling for surplus water deliveries totaling 488 767 cubic dekametres (396,244 acre-feet) were issued about April 1, 1979. This total included deliveries of 25 504 cubic dekametres (20,626 acre-feet) made during the first 3 months of the year.

In May 1979, Kern County Water Agency formally requested an additional 395 596 cubic dekametres (260,000 acre-feet) of surplus water. The request stated that 111 000 cubic dekametres (90,000 acre-feet) of this amount would be used for local ground water replenishment programs. An approved schedule issued in early June provided for delivery of the total quantity of surplus water requested by the Agency. Delivery of an additional 56 741 cubic dekametres (46,000 acre-feet) of surplus water was approved late in the year. Also, increased surplus water deliveries to Tulare Lake Basin Water Storage District and Oak Flat Water District totaling 19 674 cubic dekametres (15,950 acre-feet) were approved at this time. Approvals were made only after it had been determined that the increased deliveries would not adversely affect 1980 entitlement water deliveries.

Due to the quantity of project water obtained, the 1979 annual entitlements of two contractors, Dudley Ridge Water District and Tulare Lake Basin Water Storage District, had to be increased

pursuant to Section (g)(3) of amended Article 21 of their long-term water supply contracts. Dudley's entitlement amount was increased by 4 865 cubic dekametres (3,944 acre-feet) and Tulare's by 4 615 cubic dekametres (3,741 acre-feet). Statements of charges reflecting these increased entitlements were sent to the contractors in January 1980.

Two noncontractors, Green Valley Water District and Tracy Golf and Country Club, requested surplus water deliveries in 1979 and subsequently entered into agreements with the State for such service. Green Valley was charged \$45,057, including a late payment charge for the surplus water it received, while Tracy was charged \$5,973 including a late payment charge.

Local Water Deliveries. Project facilities are used to deliver nonproject water to both contractors and noncontractors under executed agreements. These deliveries are shown in Line 75 Table 3 as "Regulated Delivery of Local Supply".

Requested releases of Project water and water rights water have been made from Frenchman Lake since the initial filling. These releases have been made in accordance with annual contracts with Last Chance Creek Water District. Under contracts through 1978, the annual charge to Last Chance Creek for use of Project facilities was \$14,000 each year. In 1979, a new contract providing service during the five-year period of 1979 through 1983 was developed. The contract contains provisions to compute the charges to Last Chance Creek reflecting future annual escalation of State incurred operation and maintenance costs at Frenchman Dam and Lake.

#### Wheeling of Federal Water

The State has entered into contracts with nine agencies to wheel Federal CVP water through SWP facilities to Kern

County Water Agency's Cross Valley Canal. Under another contract between the State and the United States, the WPRS provides the water as well as the electrical energy needed for wheeling. The contracts provide that up to 155 214 cubic dekametres (125,832 acre-feet) per year may be wheeled.

The State's charges for the wheeling service under the nine contracts are for use of SWP facilities to transport water from the Delta to the Cross Valley Canal. The contracts assume that in the San Luis Division, where aqueduct capacity is shared by both the State and the United States, Federal rather than State capacity is used and the agencies are not charged for transportation of water through those portions of the California Aqueduct.

The Department has reevaluated this assumption and has determined to charge for wheeling through the Joint-Use Facilities when the water is transported from the Delta and the wheeling involves use of State facilities upstream of O'Neill Forebay. Charges associated with all future wheeling contracts will use this concept in determining acceptable charges for wheeling service.

During 1979, 129 558 cubic dekametres (105,033 acre-feet) of CVP water was wheeled. Under a special agreement applicable to 1979 only, CVP water allocated to Kern-Tulare Water District and Rag Gulch Water District, a total of 65 746 cubic dekametres (53,300 acre-feet), was delivered to the Westlands Water District. Wheeling rates for the water were higher than the rates specified in the Kern-Tulare and Rag Gulch



O'Neill Forebay with San Luis Pumping Generating Plant in the foreground. The Forebay is used in conjunction with San Luis Reservoir to regulate water by the SWP and the federal CVP.

contracts, as they included a charge for the use of State capacity in the joint-use San Luis Division facilities, whereas the initial nine wheeling contracts assumed use of Federal capacity. Another special wheeling agreement, also applicable to 1979 only, was made with Pixley Irrigation District. Under this agreement, 6 167 cubic dekametres (5,000

acre-feet) of Pixley's CVP water was wheeled to the Lakeside Irrigation Water District. Again the wheeling charges were increased for the same reason applied to the Westlands' wheeling. The following table shows the maximum amount of wheeling for which each of the nine agencies has contracted and a summary of 1979 wheeling services.

Agency	Maximum Annual Contractual Amount in Acre-feet	Wheeled During 1979 in Acre-feet	Charge for 1979 in Dollars
County of Fresno	3,000	38	216
County of Tulare	3,000	3,000	17,009
Ducor I. D.	1,200	0	0
Hills Valley I. D.	2,146	2,146	12,168
Kern-Tulare River W.D.	40,000	0	0
Lower Tule River I. D.	31,102	20,400	115,669
Pixley I. D.	31,102	20,167	114,347
Rag Gulch W. D.	13,300	0	0
Tri-Valley W. D.	<u>982</u>	<u>982</u>	<u>5,567</u>
TOTAL	125,832	46,733	264,976
Westlands W. D.	0	53,300 <sup>1/</sup>	306,475
Pixley I. D. for Lakeside Irrigation W. D.	<u>0</u>	<u>5,000</u> <sup>1/</sup>	<u>32,850</u>
GRAND TOTAL	125,832	105,033	604,301

<sup>1/</sup> Wheeled under special agreements applicable to 1979 only.

In early 1980, the Department and the WPRS executed an interim agreement for the Department to wheel Federal CVP water through the California Aqueduct. The principal WPRS user involved in the wheeling arrangement was the Westlands Water District. As part of the same contract, WPRS agreed to provide its share of Delta outflow during the period of the wheeling agreement to meet the Delta water quality requirements, as mandated by Decision 1485 of the State Water Resources Control Board. On January 24, 1980, the SWRCB approved a temporary permit for WPRS to appropriate water necessary to carry out this agreement.

The Department began wheeling from the Delta in January, February, and March of 1980. This water replaced part of the water which the WPRS was unable to convey through the Delta-Mendota Canal when the canal was down for maintenance in late 1979. The Department wheeled replacement water from the Delta to joint-use San Luis Facilities for the WPRS during July and August 1980 to make up for curtailments in Federal pumping at Tracy during May and June. These curtailments in pumping, required by Decision 1485, are to protect the striped bass fishery in the Sacramento River during the critical spawning period.



Looking southerly from the start of the California Aqueduct (shown in the lower left hand corner of the picture). The aqueduct extends to Bethany Reservoir then continues southerly through the San Joaquin Valley to Southern California.

With this contract the Department has adopted a new policy to enter into two-party wheeling-water contracts with WPRS rather than three-party agreements where WPRS users are also parties. This will simplify the contracting program, especially after the permanent DWR-WPRS coordinated operating agreement is executed. Passage of SB 200 greatly limits the Department's authority to wheel Federal CVP water (see further discussion in Chapter I under the section titled, "Negotiations for Joint Operating Agreement of SWP and CVP".)

Project Water Delivery Plans

In September 1979, Project contractors submitted their estimated monthly project water delivery requirements for the 6-year period 1980 through 1985. Their estimates included delivery of entitlement, surplus, makeup (Article 12(d), Article 45, and Article 14(b)) emergency relief, local, and ground water demonstration water.

Entitlement Water. Estimated entitlement plus makeup water needs submitted in 1979, as well as estimates submitted in the five previous years, are shown in the following tabulation.

Year Estimate Submitted	Delivery Amount in Acre-feet <sup>a/b/</sup> by Year <sup>c/</sup>					
	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>
1979 <sup>d/e/</sup>	1,880,386	2,033,243	2,179,251	2,272,782	2,461,223	2,617,594
1978 <sup>d/</sup>	2,026,174	2,164,013	2,300,401	2,408,652	2,495,503	
1977 <sup>f/</sup>	2,170,409	2,374,135	2,574,831	2,371,140	2,482,275	
1976 <sup>f/</sup>	2,026,880	2,168,335	2,273,925	2,376,990		
1975 <sup>f/</sup>	1,931,067	2,027,770	2,131,960			
1974 <sup>f/</sup>	2,022,548	2,112,251				

- a/ Metric Conversion is acre-feet times 1.2335 equals cubic dekametres.
- b/ Includes project entitlement water recaptured from ground water storage pursuant to Mojave demonstration project agreement.
- c/ Future estimates of needs must reflect water conservation and reclamation goals in accordance with SB 200 requirements.
- d/ Submitted requests covered the following six years.
- e/ Above 1979 amounts for the years 1983 through 1985 have been reduced to reflect future conservation and reclamation goals for use in this Bulletin.
- f/ Submitted request covered the following seven years.

Note that the 1979 estimate reflects a lower use of Project water than had been estimated in the previous two submittals. For 1980 this is primarily a reflection of the above-normal precipitation in Southern California in both 1978 and 1979. For the remaining years it is a reflection of a decreased population growth for Southern California than was estimated in earlier years and a reduction in need as a result of conservation programs initiated during the 1976-77 drought.

In August 1979, the Department sent a letter to each contractor requesting (1) estimates of monthly Project water requirements during 1980 through 1985 and (2) annual requirements for 1986 through 1990, or (3) if later, the year the maximum annual entitlement would be used on a regular basis. This request was consistent with delivery requests made in prior years. In addition, however, contractors were asked to provide estimates of how much they expect to reduce their future Project water requirements through conservation and reclamation. The letter assumed that conservation and reclamation reductions to meet the objectives outlined in the Department's Bulletin 76 "Delta Water Facilities", dated July 1978, could be accomplished voluntarily. It appears that most State Water Contractors only verbally acknowledged presence of these requirements and did not respond to this request with reduced estimates. However, consistent with SB 200, Bulletin 132-80 does reflect conservation and reclamation reductions in requested deliveries. These reductions were developed by the Department and were applied only to that water estimated to be needed for municipal and industrial uses.

For the third year, water deliveries for 1980 were scheduled on the basis of the Department's Rule Curve criteria. On the basis of December 1, 1979 water supply conditions, the Department determined through use of the criteria that

all requested entitlement and makeup water, as well as a limited quantity of other water, could be safely scheduled for delivery. In mid-December 1979, approved schedules calling for delivery of entitlement and makeup water in the then current requested amounts was issued. These initial schedules called for delivery of 2 269 232 cubic dekametres (1,839,669 acre-feet) of 1980 entitlement water and 44 051 cubic dekametres (35,712 acre-feet) of make-up water. Total approved delivery was only slightly changed from the September requested total shown in the preceding tabulation.

Application of the 1979 Rule Curve Criteria to May 1, 1979 water conditions showed that, after meeting all 1979 delivery requests, water stored in Project reservoirs at the end of 1979 would exceed the minimum requirements. Based on this finding, it was decided that increases in 1980 entitlement amounts of up to 246 700 cubic dekametres (200,000 acre-feet) would be allowed. (Several contractors using project water for agriculture previously had requested increases). Contractors were told of this decision at the May 17, 1979 Water Contractors Council meeting. Dudley Ridge Water District and Oak Flat Water District requested increases; unnumbered contract amendments with the two water districts were executed to increase their 1980 entitlement amounts by 5 304 cubic dekametres (4,300 acre-feet) and 1 850 cubic dekametres (1,500 acre-feet), respectively. Revised 1980 Statements of Charges were then issued to the two contractors.

#### Surplus Water and Extra Surplus Water.

At the beginning of 1980, approximately 92 513 cubic dekametres (75,000 acre-feet) of surplus water could be scheduled. Because of this availability and the likelihood that considerably more water would become available as the winter progressed, surplus water contracts for 1980 service were prepared and later signed by eight contractors.

By the end of 1979, an extra surplus water program had been developed and implemented. Extra surplus water is deliverable water available in the Delta, which is in addition to that needed to meet Delta water quality requirements, scheduled deliveries, and Project storage requirements. The extra surplus water program has been developed primarily to assist in reducing ground water overdraft by direct recharge or through agricultural use in lieu of ground water pumping, and as a second priority for pre-irrigation to increase soil moisture prior to planting. Extra surplus water is scheduled by telephone for two-week periods, and only when water supply conditions do not allow sufficient regularly-scheduled surplus water to satisfy all contractor requests.

Each contractor interested in acquiring extra surplus water under the program executed an amendment to the long-term water supply contract, which added provisions to Article 21 necessary to define and provide for extra surplus water. Scheduling of 1980 deliveries of extra surplus water was initiated on December 28, 1979.

#### Miscellaneous Project Water

Deliveries. Schedules were also issued near the beginning of 1980 for ground water demonstration water, emergency relief water, recreation water and pre-consolidation repayment water. A total of about 61 675 cubic dekametres (50,000 acre-feet) of such water was scheduled.

#### Contract Amendments

Each of the 31-long-term water supply contracts has been amended. The number of amendments to individual contracts varies from 1 to 17; amendments to all contracts as of April 1, 1980 total 313.

Figure 6 shows by number and general subject matter the amendments to each of the contracts. In addition to the num-

bered amendments shown in Figure 6, annual entitlement (Table A) amounts of some contracts have been revised by either unnumbered amendments or notices of Table A revisions.

Several amendments to the contracts sent out for signature prior to 1977 have never been signed. These include:

- ° Amendment to the City of Yuba City contract concerning calculation of the Project interest rate and the Delta Water Charge. All other contracts have been amended to include the change in interest-rate calculation provided for in this proposed amendment.
- ° An amendment to the contract with Solano County Flood Control and Water Conservation District concerning calculation of the Delta Water Charge. All other contracts except the Yuba City contract have been amended to include this provision.
- ° An amendment to contracts with the City of Yuba City and Solano County Flood Control and Water Conservation District which deletes the surcharge, surcharge credit, and power credit provisions. All other contracts reflect the amendment.
- ° An amendment to realign and clarify the surplus water provisions. The amendment has been signed by 24 contractors. Those that have not signed it are City of Yuba City, County of Butte, Mojave Water Agency, Napa County Flood Control and Water Conservation District, San Bernardino Valley Municipal Water District, and San Geronio Pass Water Agency.

As of April 1, 1980, amendments signed since the Bulletin 132-79 report on this subject are as follows:

- ° Kern County Water Agency signed an amendment providing a procedure for delaying payment of all or a portion



# Figure 6: WATER SUPPLY CONTRACT AMENDMENTS AS OF April 1, 1980

Contracting Agency	Minimum Project Yield Increased	Supplemental Conservation Facilities 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	Project Repayment Period and Term of Contract Revised	Special Conditions
		1970	1971	1972 till construction		Added	Revised	Moratorium Declared			Deleted		Added	Revised		Increased	Decreased					
								Thru 1969	1970	1971												
<b>FEATHER RIVER AREA</b>																						
City of Yuba City	1	2P	2P	2P	2P	1									1			1	NA	3		
County of Butte	1	3	3	3	3	1	2		4	5					1			6	NA	6		
Plumas County Flood Control and Water Conservation District	1	3	5	6	3	1	2	4	7	8					10				9	11		
<b>NORTH BAY AREA</b>																						
Napa County Flood Control and Water Conservation District	1	3	4	5	3	1									1					7	1,2	
Solano County Flood Control and Water Conservation District	1	2	3P	3P	2	1									1,5		1	6		6	6	
<b>SOUTH BAY AREA</b>																						
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		13	1	
Alameda County Water District	1	4	5	7	4	1	3		8	9	S		1,11,12		2				10	13	1,6	
Santa Clara Valley Water District	2	6	8	10	6	2	5	7	11	12	1		1,2,14,15		3			1,4	13	16	1,9	
<b>SAN JOAQUIN VALLEY AREA</b>																						
County of Kings		2	3	4	2		1		5	6	S	S	8							7	9	
Devil's Den Water District	1	5	7	8	5		4	6	9	10			1,12,13				1,3		11	14	2	
Dudley Ridge Water District	1	6	8	9	6		5	7	10	11			1,13,14				1,2,3,4		12	15		
Empire West Side Irrigation District	1	4	6	7	4		3	5	8	9	S		1,11,12				2		10	13		
Hacienda Water District	1	4	6	7	4		3	5	8	9	S		1,11,13				2		10	12	7	
Kern County Water Agency	1	4	6	8	4		3	5	9	10			1,12,14				1,2		11	15	7,13	
Oak Flat Water District		3	5	6	3		2	4	7	9	S	S	12,11,14		1		8		10	13		
Tulare Lake Basin Water Storage District	2	5	6	7	5		4		8	10	S		2,13,14				1,3,9,12		11	15		
<b>CENTRAL COASTAL AREA</b>																						
San Luis Obispo County Flood Control and Water Conservation District	2	3	4	5	3	1	2						1,2,8							7	9	
Santa Barbara County Flood Control and Water Conservation District	2	3	4	5	3	1	2						1,2,7				2			8		
<b>SOUTHERN CALIFORNIA AREA</b>																						
Antelope Valley-East Kern Water Agency	1	5	6	7	5	1				8			1,10			3	2	1	4	9	12	2,3,4
Castaic Lake Water Agency	2	4	5	6	4	1	2						1,2,10			2		2,3		8	11	
Coachella Valley Water District	2	3	4	5	3	1	2						1,2,8					2		7	9	
Crestline-Lake Arrowhead Water Agency	2	5	6	7	5	1	2						1,2,11		4	3		2,10		9	12	
Desert Water Agency	2	3	4	5	3	1	2						1,2,8					2		7	9	
Littlerock Creek Irrigation District	2	3	4	5	3	1	2						1,2,7					2			8	
Mojave Water Agency	2	4	5	6	4	1	2						1,2			3		2		8	9	3
Palmdale Water District	2	3	4	5	3	1	2						1,2,8					2		7	9	
San Bernardino Valley Municipal Water District	2	4	5	6	4	1	2						1,2					1,2,3,9		8	10	
San Gabriel Valley Municipal Water District	2	4	5	6	4	1	2						1,2,10			2		2,9	3	8	11	
San Geronimo Pass Water Agency	2	4	5	6	4	1	2						1,2			2				8		2,3
The Metropolitan Water District of Southern California	1	9	10	11	9	1				13			1,16					1,3,8V,15	2,6,7	14	17	(a)
Ventura County Flood Control District	1	2	3	4	2	1							1,7							6	8	

P = Pending  
S = Special provisions of basic contract.

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

of the Capital Components of the Delta and Transportation Charges. Before the amendment was executed, all contractors were asked to comment on it and to notify the State if a similar amendment was desired. No adverse comments were received, and only one other contractor expressed an interest in the amendment.

- An amendment expanding Article 21 to include provisions providing for the delivery of extra surplus water was developed and distributed for signature to contractors who might have a need for such surplus water. The amendment was signed by Alameda County Water District, Santa Clara Valley Water District, Devil's Den Water District, Dudley Ridge Water District, Empire West Side Irrigation District, Hacienda Water District, Kern County Water Agency, Oak Flat Water District, Tulare Lake Basin Water Storage District, and San Gabriel Valley Municipal Water District.
- The Metropolitan Water District of Southern California signed the amendment to Article 21, which was first distributed in 1974 to all contractors. This is the amendment executed to realign and clarify the surplus water provisions previously in effect.
- During 1979, an amendment was developed establishing the Project repayment period as extending to the end of 2035 or, if later, to the date of the latest maturity of any bonds issued to finance the construction of project facilities. Article 2, which specifies the term of the contract, was also amended to coincide with the revised repayment period definition. This amendment was sent to all contractors for signature and has been signed by all contractors.
- Solano County Flood Control and Water Conservation District's contract calls for initial delivery of Project water

in 1980. Its contract stipulates that the District may obtain Project water directly from the Delta through District constructed delivery structures, as well as the existing delivery structure on Cache Slough through which the City of Vallejo obtains a water supply. The District requested that its Table A be amended to reduce annual entitlements for 1980 through 1983 to the annual amounts expected to be taken from the Delta during those years. Since the North Bay Aqueduct will not be operational until at least 1984, the requested reductions were approved and executed.

Recently developed amendments, not previously discussed herein, which have been sent out for signatures but have not been signed and returned as of April 1, 1980 include:

- An amendment to the County of Butte Contract, which reduces annual entitlements for the years 1980 through 1990.
- An amendment to the Napa County Flood Control and Water Conservation District Contract, which would reduce the District's annual entitlements during the entitlement build-up period; change the year of initial delivery from 1980 to 1984; and reduce the District's maximum annual entitlement.

At the beginning of 1979, proceedings were underway on the transfer of Hacienda Ranch lands (which essentially comprise the Hacienda Water District) to Tulare Lake Drainage District for drainage disposal and the associated transfer of Hacienda Water District's State water supply contract to Tulare Lake Basin Water Storage District. In connection with these proceedings, the Department,

on February 16, 1979, executed an interim agreement<sup>5/</sup> with the Tulare Lake interests (party to the land and water supply transfers) providing for delivery of Hacienda Water District's State water supply to lands in Tulare Lake Basin Water Storage District prior to consummation of the land and water supply transfers. The term of the interim agreement was from the date of execution to December 31, 1979. Near the end of 1979, the term of the agreement was extended to December 31, 1980 by amendment dated December 28, 1979, in response to the prediction of the Tulare Lake interests that the land and water supply transfers could probably not be completed before mid-1980. After completion of the requisite land transfers, Tulare's long-term water supply contract will be amended to permanently transfer Hacienda's project water supply to Tulare.

#### Negotiation of Water Charge Settlements

A task force consisting of representatives of the State Water Contractors Audit Committee, MWD, and the Department's Water Service Contract Cost Negotiation Committee continued its discussions and negotiations during 1979.

#### Protests of Water Contractor Charges

The water supply contracts require water contractors to give the State notices of contest of accuracy of statements of charges, 10 days prior to the date payments of the stated amounts are due. Substantially all of past contractors' charges, since 1962 have remained open to challenge because of the blanket extensions of time granted by the Department for contesting these charges. Such a policy is contrary to all principles of management and fiscal responsibility.

<sup>5/</sup> The agreement provides that Tulare Lake Basin WSD will use the new water supply within its service area boundaries exclusive of the lands owned by Tulare Lake which lie within Hacienda's boundaries and, after the transfer of lands to Tulare, the new lands will be used for storage of excess floodwater flows and not for new crop irrigation.

As a result, in 1976 the Department adopted a policy to bring contested charges to final resolution within two years of the end of the fiscal year, the maximum time permitted for adjustments to general fund expenditures.

As part of the transition to the new process, it was decided to give two specific dates for contractors to file notices of contest and to pursue all remedies available to them on statements of charges submitted prior to those dates were given:

° June 20, 1980: A contractor must file a notice of contest with the State by this date or make its payments under protest for all amounts due which are not included within the items listed below:

1. All costs incurred after June 30, 1976.
2. All costs affected by the procedures for allocation to project purpose.
3. All costs affected by the procedures for allocating transportation variable charges for fluctuations in reservoir storage.

° December 21, 1980: A contractor has until this date to file notices of contest with the State or to make its payments under protest on charges for all costs incurred between June 30, 1976 and December 31, 1978.

Beginning with charges for calendar year 1979, the cut-off time for protests will be June 20, 1981. Thereafter June 20 of each year will be the cut-off time to protest charges for the calendar year which ended two years prior. This pol-

icy, assures review of contested costs within a realistic time after the charges were incurred. The policy requires that the water contractors audit reports be submitted to the Department by December 1 of the calendar year following the year of audit. This means that the audit report for 1979 is due by December 1, 1980 in order to complete the review by the cut-off date of June 20, 1981. The time provided is well within established procedures for such audits.

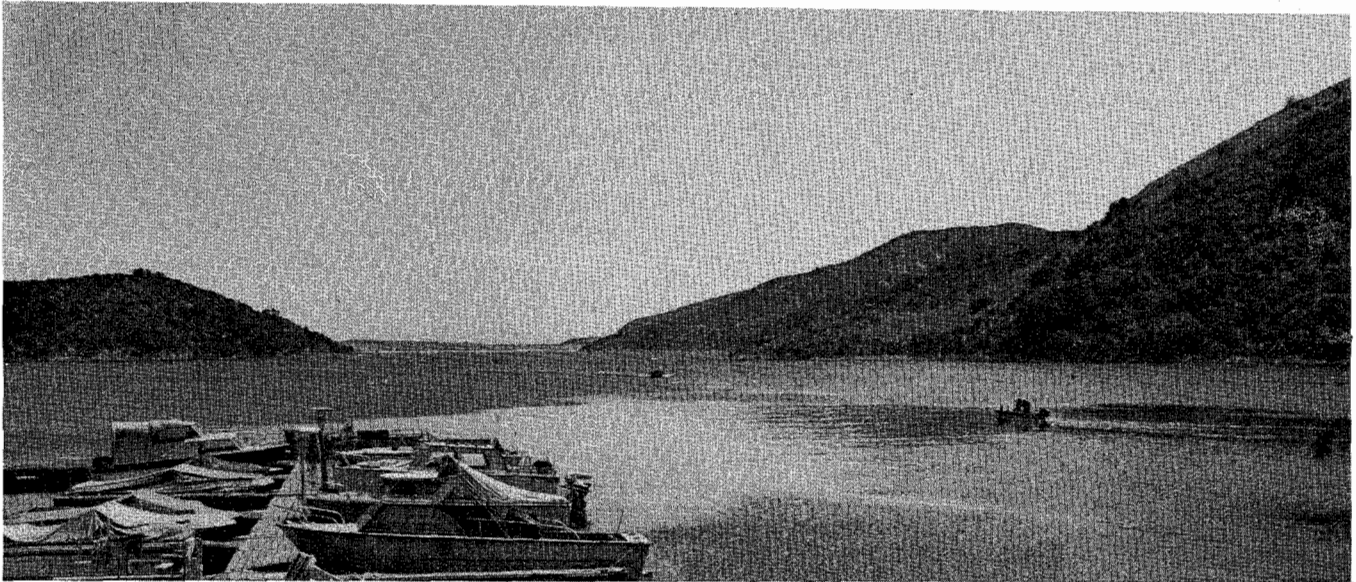
#### Project Purpose Cost Allocation - California Aqueduct

In October 1979, the Department of Finance issued a staff report on the project purpose cost allocation methods used by DWR. The Finance report includes recommendations that (1) projected future recreation benefits to be determined by the data for past years (linear regression) and (2) justifiable costs for recreation and enhancement be redefined. Finance's definition of justifiable costs would reduce the magnitude of project costs allocated to recreation and enhancement for most project facilities. The Finance report is now being reviewed by DWR. Once this

review is complete, the cost allocation for the California Aqueduct reported in Appendix D to Bulletin 132-80, and any or all allocations previously reported to the Legislature, may be revised.

For the first time, the cost allocation for the California Aqueduct, Dos Amigos Pumping Plant to the terminal facilities was reported to the Legislature in Appendix D to Bulletin 132-80. Previously, cost allocations for project facilities north of Dos Amigos had been reported.

Assembly Bill 927 was introduced by Assemblyman John Thurman at the request of the Department in 1979, to approve SWP costs allocated to recreation and fish and wildlife enhancement and costs of recreation land acquisition that had previously been financed by SWP funds. In May 1980, AB 927 was amended to add the capital costs of the California Aqueduct, Dos Amigos to termini, which the Department had allocated to recreation and enhancement--\$107,644,210. AB 927 was further amended in the Senate in August 1980 to require Department of Finance approval of allocations and expenditures under the Davis Dolwig Act. The Legislature approved AB 927 with these amendments.



Looking north from the Sawpit Canyon Area at Silverwood Lake.