

PETE WILSON, Governor STATE OF CALIFORNIA

DOUGLAS P. WHEELER, Secretary for Resources THE RESOURCES AGENCY

DAVID N. KENNEDY, Director DEPARTMENT OF WATER RESOURCES

* * *

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Table I-6 Long-Term Water Supply Contracting Agencies, by Area

Contracting Agency	Cumulative Deliveries through December 31, 1995 (Acre-Feet) (a	Maximum Annual Entitlement (Acre-Feet)	Payments through December 31, 1995 (Dollars)	Gross Area as of July 1, 1996 (Acres)	Assessed Valuation 1995-96 (Dollars) (b	Estimated Population July 1, 1996
Ipper Feather River Area		1.52				
City of Yuba City	5.384	9,600	1,305,016	5.107	1,126,662,000	34.350
County of Butte	7,627	27,500	422,549	1,069,000	6,239,500,000	172,600
	7,027	27,000	422,548	1,009,000	0,239,500,000	172,000
Plumas County Flood Control	0.004	0.700	046 400	4 676 050 /-	4 070 575 005 (-	24 200
and Water Conservation District	9,881	2,700	846,199	1,676,056 (c	1,973,575,825 (c	21,200
Subtotal	22,892	39,800	2,573,764	2,750,163	9,339,737,825	228,150
lorth Bay Area						
Napa County Flood Control and						
Water Conservation District	158,022	25,000	31,262,202	508,000	9,453,251,869	120,604
Solano County Water Agency	186,636	42,000	36,289,863	537,600	18,883,562,044	377,560
Subtotal	344,658	67,000	67,552,065	1,045,600	28,336,813,913	498,164
		,	,,			
outh Bay Area						
Alameda County Flood Control						
and Water Conservation						
District-Zone 7	F07 F00	40.000	44 554 000	070.000	40 500 004 075	404.000
	597,560	46,000	44.551,292	272,000	12,592,234,275	161,600
Alameda County Water District	657,453	42,000	49,126,027	64,640	20,194,979,000	286,247
Santa Clara Valley Water District	2,515,682	100,000	159,813,277	833,000	103,400,000,000	1,612,000
Subtotal	3,770,695	188,000	253,490,596	1,169,640	136,187,213,275	2,059,847
an Joaquin Valley Area						
County of Kings	63,822	4.000	2,194,738	893,300	3,858,990,456	114,191
Castaic Lake Water Agency	330.847				10,872,299,000	
Dudley Ridge Water District	1.356.631	57,700	35,977,575	29,970	(е	50
Empire West Side Irrigation District	87,007	3,000	1,962,568	7,400	(e	50
Kern County Water Agency	20,797,204	1,153,400	825,505,492	5,161,000	30,540,999,000	612,300
Oak Flat Water District						
	140,388	5,700	2,893,079	4,000	(е	50
Tulare Lake Basin Water Storage						
District	2,804,398	118,500	70,170,033	189,200	(е	50
Subtotal	25,580,297	1,342,300	938,703,485	6,284,870	45,272,288,456	726,691
Central Coastal Area						
San Luis Obispo County Flood						
Control and Water Conservation	0	0- 000		0.404.000		000.400
District	U	25,000	18,233,172	2,131,300	14,347,448,466	232,428
Santa Barbara County Flood Control	H 2.1324.1					
and Water Conservation District	1,240	45,486	36,035,922	1,775,296	10,296,310,227	394,580
Subtotal	1,240	70,486	54,269,094	3,906,596	24,643,758,693	627,00
						T
outhern California Area						
Antelope Valley-East Kern Water						
Agency	857,244	138,400	183,798,733	1,525,029	12,027,826,432	230,000
Castaic Lake Water Agency (d	240,279	54,200	86,389,874	133,700	10,872,299,000	150,25
Coachella Valley Water District	319,070	23,100	77,873,347	637,600	11,132,616,000	200,000
Crestline-Lake Arrowhead Water Agency	29,692	5,800	11,860,707	55,100	1,500,527,807	25.00
Desert Water Agency	513,184	38,100	105,716,644	208,800	4,391,560,000	82,00
Littlerock Creek Irrigation District	12,309	2,300	3,268,883	10,000	106,085,538	2,900
Metropolitan Water District of						
Southern California	14,519,920	2,011,500	3,949,298,097	3,289,593 (f	671,699,559,000 (f	14,500,00
Mojave Water Agency	126,875	50,800	80,282,273	3,160,400	13,264,223	333,00
Palmdale Water District	60,509	17,300	24,202,549	73,900	1,956,651,000	90,00
San Bernardino Valley Municipal						
Water District	281,139	102,600	201,138,457	210,000	14,400,000,000	600,00
San Gabriel Valley Municipal Water	201,100	.02,000	#0111001T01	~ 10,000	111100,000,000	500,00
District	174,287	28,800	62,537,765	17 225	7,834,221,597	191,000
			02,037,700	17,335		
San Gorgonio Pass Water Agency	0	17,300	29,695,241	140,600	1,945,425,320	44,60
Ventura County Flood Control District	5,824	20,000	23,946,199	308,252	21,957,265,429	457,00
Subtotal	17,140,332	2,510,200	4,840,008,769	9,803,609	759,837,301,346	16,905,75
Total Otata Mistary Barriers	40,000,444	4 047 700	0 450 507 770	04 000 470	4 000 047 445 555 /	04.045.51
Total, State Water Project	46,860,114	4,217,786	6,156,597,773	24,960,478 (g	1,003,617,113,508 (g	21,045,610
Net Total, SWP Service Area				23,790,838 (h	(1)	18,840,92
Total, State of California				100,314,000	1,876,018,000,000 (j	32,140,000
Percentage, Net SWP of Total California				24		5

a) All water delivered to long-term SWP contractors, including current and deferred entitlement, surplus, unscheduled, emergency relief, exchange, and non-SWP water delivered through SWP facilities to Napa County Flood Control and Water Conservation District.
 b) Statutes of 1978, Chapter 1207, added Section 135 to the Revenue and Taxation Code, requiring assessment at 100 percent of full value for the 1981-1982 fiscal year and

b) Statutes of 1978, Chapter 1207, added Section 135 to the Revenue and Taxation Code, requiring assessment at 100 percent of full value fiscal years thereafter.
c) Total of all Plumas County Flood Control and Water Conservation District, including Last Chance Creek Water District.
d) District includes land in the San Joaquin Valley Area formerly known as Devil's Den Water District.
e) Assessed valuation not available on an agency area breakdown.
f) Total for MWDSC, including Calleguas Municipal Water District, which is common to MWDSC and Ventura County Flood Control District, plucides duplicate values. Some areas that are within two or more agencies are included in each agency's total.
h) Excludes duplicate values where agencies have overlapping boundaries.
i) Data no longer available.
j) Source: California Statistical Abstract, published by the State Department of Finance in November 1996.

Chapter 10

Water Contracts and Deliveries



Cordelia Forebay

Significant Events

- On January 14, 1995, the Department approved 100 percent of State Water Project contractors' requests for 3,163,780 acre-feet of 1995 entitlement water. Heavy rainfall throughout the State caused demands to decrease. SWP contractors took delivery of only 1,889,092 acre-feet of the approved 1995 entitlement water.
- During December 1995 and February 1996, 20 out of 29 SWP contractors modified their long-term Water Supply Contracts by executing the Monterey Agreement. In December 1995, the Department implemented many of the Monterey Principles on an interim basis through a Water Service Contractors Council Memo. This interim implementation allowed all 29 contractors to apply the principles while they obtained necessary approvals to execute the Amendment.
- In December 1995, the Department entered into agreements with Kern County Water Agency to transfer the Kern Fan Element property to KCWA and establish operational procedures for the Department to extract its share of groundwater stored in the Kern Water Bank. These items were included in the Monterey Principles.
- Prior to the interim implementation of the Monterey Principles, the Department entered into letter agreements with Kern County Water Agency to construct ponds and spread flood waters on the Kern Fan Element property. In

- 1995, KCWA spread and recharged about 200,000 acre-feet of water on the KFE.
- On December 27, 1995, the Planning and Conservation League filed a lawsuit against the Department and Central Coast Water Authority challenging the Monterey Agreement.
- On August 21, 1995, the Department executed Amendment No. 1 to an agreement among the Department, KCWA, and Semitropic Water Storage District for the introduction of local water into the California Aqueduct. The Amendment was significant because it approves the first permanent turn-in facility on the Aqueduct.
- On August 18, 1995, an agreement among the Department, The Metropolitan Water District of Southern California, and Kern County Water Agency was executed to establish operational procedures to enable MWD to participate in a groundwater storage and exchange program with Semitropic Water Storage District, a member unit of KCWA.
- On December 8, 1995, the Department and KCWA executed Amendment No. 21 to KCWA's long-term water supply contract to authorize KCWA's participation in the Carryover Entitlement Water Program.

he long-term water supply contracts for water service from the State Water Project between the Department and 29 local agencies are basic to the project's construction and operation. In return for the State financing, constructing, and operating facilities needed to provide water service, the agencies contractually agreed to repay all SWP capital and operating costs.

The Department delivers water to SWP contractors according to long-term water supply contracts, which may be amended as needed. The contracts, among other things, specify amounts of water that the Department may deliver to SWP contractors every year. During the 1995-1996 reporting period, the Department executed 24 amendments to these contracts, including 20 amendments resulting from the Monterey Agreement.

The Department also enters into other agreements with SWP contractors and other agencies—which may be amended periodically—to convey SWP and non-SWP water through the California Aqueduct; and approve turnout construction along SWP facili-

ties and establish turnout operation and maintenance regulations.

During the 1995-1996 reporting period, the Department executed 17 water conveyance/storage agreements with SWP contractors; 2 agreements related to the Monterey Agreement; 1 turnout agreement; and 3 amendments to existing agreements other than long-term water supply contracts. During the same reporting period, the Department executed 13 water conveyance agreements, 1 turnout agreement, and 9 amendments to existing agreements with non-SWP contractors.

Detailed information about contracts and amendments follows.

Long-Term SWP Water Supply Contracts

The first water supply contract was signed with the Metropolitan Water District of Southern California on November 4, 1960. The contract was negotiated by the Department and MWD according to terms of the contracting principles for water service contracts announced by Governor Edmund G. Brown on January 20, 1960.

The MWD contract became the prototype for all water contracts; by the end of 1967, 31 agencies had contracted for water. In addition, a water supply contract was executed with the city of West Covina in December 1963, but was terminated in August 1965; the city's water entitlement was transferred to MWD through an amendment to the district's long-term contract with the Department. Long-term contracts with Hacienda Water District and Devil's Den Water District were also terminated when those districts transferred their water entitlements, through contract amendments, to Tulare Lake Basin Water Storage District (1981) and Castaic Lake Water Agency (1992), respectively. Today the SWP has long-term water supply contracts with 29 agencies. Those contracts have been amended repeatedly to incorporate mutually desired modifications.

All water contracts signed in the 1960s included an estimate of the date water would first be delivered and a schedule of the amount of water the agency could expect to be delivered annually (annual entitlement). That amount was designed to increase gradually until the maximum amount of annual entitlement was reached. The total combined annual entitlement for all water contracting agencies was initially 4,230,000 acre-feet, assuming full development of the SWP.

The contracts were initially designed to be valid for 75 years or until all bonds sold as part of the California Water Resources Development Bond Act were repaid, whichever period was longer. As a result of amendments to contracts in the 1990s, the current combined maximum annual entitlement totals 4,172,786 acre-feet, and the contracts are in effect for the longest of the following periods: (1) the project repayment period, which extends to the year 2035; (2) 75 years from the date of the contract; or (3) the period ending with the latest maturity date of any bond used to finance the construction costs of project facilities.

Table 10-1
Amendments to Water Supply Contracts, by Category

Description
Amendments to Table A, "Annual Entitlements," of water supply contracts resulting in changes in amounts of entitlement water
Amendments for allocating costs and benefits of the enlargement of the East Branch and extension of the Coastal Branch of the California Aqueduct
Amendments to allow contractors to purchase extra water service capacity from the California Aqueduct
Amendments to allow contractors to carry over entitlement water from one year for delivery in the next year, providing certain conditions are met
Amendments to allow contractors to take delivery of surplus water; that is, water in excess of that required to meet all demands for entitlement water—for example, water to be stored in reservoirs or to meet other SWP requirements
Amendments to allow contractors to take delivery of unscheduled water; that is, water available for a very short period of time when excess water and SWP pumping capacity are available in the Delta
Amendments to allow contractors to take, under certain conditions, delivery of entitlement water in subsequent years if favorable local weather conditions result in adequate local water supplies
Amendments to implement the principles of the Monterey Agreement

a) See Table 10-2, "Amendments to Water Supply Contracts, June 30, 1996, by Category and Contracting Agency," for names of contractors to which categories apply. In addition, each volume of *The California State Water Project Water Supply Contracts* contains a list of amendments by category.

Amendments to Long-Term SWP Water Supply Contracts

All the original contracts signed by the Department and local agencies have been amended to incorporate mutually desired changes. Most amendments fall under the following eight general categories:

- · revision of annual entitlements;
- enlargement of the East Branch and extension of the Coastal Branch of the California Aqueduct;
- purchase of excess capacity;
- provisions to carry over entitlement water;
- surplus water provisions;
- unscheduled water provisions;
- · wet-weather provisions; and
- · Monterey Agreement principles.

Table 10-1 describes the eight categories of amendments while Table 10-2 lists contractors to which those categories apply.

The following long-term contracts were amended between July 1, 1995, and June 30, 1996.

Dudley Ridge Water District. The Department executed Amendment Number 22, dated January 24, 1996, to the long-term water supply contract between DRWD and the Department. The Amendment provided for DRWD to relinquish 4,330 acre-feet of 1996 entitlement water and reduce its Table A entitlement by that amount beginning in 1997 in accordance with the Monterey Principles.

Kern County Water Agency. The Department executed Amendment Number 21, dated December 8, 1995, to the long-term water supply contract between KCWA and the Department. The Amendment authorized KCWA to participate in the Carryover Entitlement Water Program.

Kern County Water Agency. The Department executed Amendment Number 24, dated December 13, 1995, to the long-term water supply contract between KCWA and the Department. The Amendment provided for KCWA relinquishment of 36,340 acre-feet of 1996 entitlement water, and the reduction of its Table A entitlement by 40,670 acre-feet for agricultural use beginning in 1997 in accordance with the Monterey Principles.

Table 10-2 Amendments to Water Supply Contracts, June 30, 1996, by Category and Contracting Agency

Contracting	9
	State Water Project Amendment Category (a
Contracting Agency	1 2 3 4 5 6 7 8
Upper Feather River Area City of Yuba City County of Butte Plumas County Flood Control and Water Conservation District	
North Bay Area Napa County Flood Control and Water Conservation District Solano County Water Agency	
South Bay Area Alameda County Flood Control and Water Conservation District-Zone 7 Alameda County Water District Santa Clara Valley Water District	
San Joaquin Valley Area County of Kings Devil's Den Water District Dudley Ridge Water District Empire West Side Irrigation District Kern County Water Agency Oak Flat Water District Tulare Lake Basin Water Storage District	
Central Coastal Area San Luis Obispo County Flood Control and Water Conservation District Santa Barbara County Flood Control and Water Conservation District	
Southern California Area Antelope Valley-East Kern Water Agency Castaic Lake Water Agency Coachella Valley Water District Crestline-Lake Arrowhead Water Agency Desert Water Agency Littlerock Creek Irrigation District Metropolitan Water District of Southern California Mojave Water Agency Palmdale Water District San Bernardino Valley Municipal Water District San Gabriel Valley Municipal Water District San Gorgonio Pass Water Agency Ventura County Flood Control District	
a) Categories correspond to thos	e listed in Table 10-1,

"Amendments to Water Supply Contracts, by Category."

San Gorgonio Pass Water Agency. The Department executed Amendment Number 14, dated May 3, 1996, to the long-term water supply contract between SGPWA and the Department. The Amendment reduced the SGPWA Table A entitlement and established a 10-year entitlement delivery build-up period.

Monterey Amendments. In December 1995, the Department executed Monterey Amendments with Solano County Flood Control and Water Conservation District, Alameda County Flood Control and Water Conservation District-Zone 7, Alameda County Water District, Santa Clara Valley Water District, DRWD, KCWA, TLBWSD, Santa Barbara County Flood Control and Water Conservation District, Antelope Valley-East Kern Water Agency, Crestline-Lake Arrowhead Water Agency, Desert Water Agency, Mojave Water Agency, and Metropolitan Water District.

In February 1996, the Department executed Monterey Amendments with Napa County Flood Control and Water Conservation District, Oak Flat Water District, San Luis Obispo County Flood Control and Water Conservation District, Littlerock Creek Irrigation District, Palmdale Water District, San Gabriel Valley Municipal Water District, and San Gorgonio Pass Water Agency. Full execution of the provisions of the Monterey Amendments is pending resolution of litigation associated with the Amendments.

The Monterey Amendments increase the reliability of existing water supplies; provide stronger financial management for the SWP; and increase water management flexibility, providing more tools to local water agencies to maximize existing facilities. Changes to SWP operations incorporated in the Monterey Amendments are described in the following paragraphs.

Water Allocations. Controversy regarding future allocations is resolved by allocation based on entitlements. In years of shortage, the initial supply reduction to agricultural entitlement water is eliminated. Current categories of surplus, wet weather, and Article 12(d) water are replaced by a single category of Interruptible Water allocated on the basis of entitlement and delivered at the same power rate used for entitlement deliveries.

Transfer of Entitlement and Land. An annual entitlement of 45,000 acre-feet of agricultural water—4,330 acre-feet from DRWD and 40,670 acre-feet from KCWA—will be permanently transferred to the Department and retired. One hundred and thirty thousand acre-feet of agricultural entitlements will be made available for permanent sale to contractors for urban use. The Kern Fan Element of the Kern Water Bank is transferred to the KCWA.

Financial Restructuring. The Department will develop a number of financial programs with SWP funds that will establish:

- an operating reserve;
- a SWP facilities capital account to continue paying for certain planning studies for which financing is not otherwise available; and
- a program of water rate management, which involves a reduction in charges for all signing contractors when SWP cash flow permits, as well as the establishment by the Agricultural Contractors of a rate management trust fund.

Operational Flexibility. The contractors paying for the Castaic and Perris terminal reservoirs will be permitted to increase their control and management of a portion of the storage capacities to optimize the operation of both local and SWP facilities. Those contractors are MWDSC, VCFCD, and CLWA.

Contractors will have the right to transport nonproject water in SWP facilities at the same power rate used for entitlement deliveries. Rules for carryover in SWP surface conservation reservoirs are expanded, allowing storage by contractors from year to year when space is available. Within certain constraints, SWP water may be stored from year to year in non-SWP surface storage facilities outside a contractor's service area for later use within the service area. There will be no limits on groundwater storage of SWP water outside a contractor's service area for later use within the service area. Contractors not storing in a given year can elect to participate in an annual turn-back pool of allocated but unneeded water. This water will be sold at a percentage of the Delta Water Rate to either the Department or other contractors. Contractors can also temporarily, for a period of years, reduce their Table A entitlement and receive rate reductions.

Miscellaneous Agreements with Long-Term SWP Contractors

In 1995 and through June 30, 1996, the Department entered into several agreements.

Water Conveyance/Storage Agreements
Agreements were executed with long-term contractors as listed below.

Alameda County Flood Control and Water Conservation District-Zone 7. A contract between the Department and ACFCWCD-Zone 7 was executed on July 28, 1995. This contract provides for the conveyance of water by the Department from Byron-Bethany Irrigation District to ACFCWCD-Zone 7. The contract is effective from 1995 through 1998 and provides for conveying up to 5,000 acre-feet of water by direct delivery between March 15 and October 15 of each year during the contract term.

Alameda County Water District. The letter agreement, signed November 14, 1995, extended the contract for use of storage space in Lake Del Valle by ACFCWCD-Zone 7 and ACWD for another year, through October 1996.

County of Kings. In May 1996, the Department approved the delivery of up to 3,000 acre-feet of DRWD entitlement water to Kings County lands adjacent to DRWD pending completion of annexation of the land by DRWD. Approval of the delivery was based on the use of the water by the same farmer who farms property in DRWD and intends to irrigate farmlands adjacent to the DRWD service area.

Dudley Ridge Water District. A letter agreement signed September 19, 1995, between the Department and DRWD approved the transfer of up to 15,000 acre-feet of DRWD 1995 SWP entitlement water to Westlands Water District. This transfer was part of an exchange with WWD that would provide DRWD with the ability to secure an equivalent quantity in a future year for more beneficial use.

Dudley Ridge Water District. The letter agreement among DRWD, KCWA, and the Department, signed May 6, 1996, provided for the transfer of up to 3,000

acre-feet of KCWA 1995 SWP entitlement water to DRWD. The water was used by a farmer who farms property in both water districts.

Kern County Water Agency. A letter agreement signed November 17, 1995, between the Department and KCWA approved the transfer of up to 25,000 acre-feet of the KCWA 1995 SWP entitlement water to WWD. The transfer is part of an exchange with WWD that would provide KCWA with the ability to secure an equivalent quantity of water in a future year for more beneficial use.

Kern County Water Agency. A letter agreement signed May 13, 1996, between the Department and KCWA approved the delivery of up to 75,000 acre-feet of the KCWA 1996 SWP entitlement water to WWD. The delivery facilitated an exchange between KCWA and WWD in which WWD transferred up to 75,000 acre-feet of Friant-Kern Canal water to KCWA in exchange for delivery of a like amount of KCWA SWP entitlement water.

Kern County Water Agency. An exchange agreement dated June 15, 1995, provided for exchanging approximately 10,000 acre-feet of water between KCWA, Tulare Irrigation District, and WWD. In 1995, the Department conveyed 9,875 acre-feet of water to Reach 7 of the California Aqueduct for WWD under this agreement.

Kern County Water Agency. A letter agreement signed May 29, 1996, between the Department and KCWA approved the transfer of up to 55,000 acre-feet of KCWA 1996 SWP entitlement water to WWD. The agreement facilitated a water transfer from landholders within four member units of the Agency—Lost Hills Water District, Berrenda Mesa Water District, Belridge Water Storage District, and Wheeler Ridge-Maricopa Water Storage District—to lands farmed in WWD.

Kern County Water Agency. A letter agreement signed June 27, 1996, between the Department and KCWA approved an exchange of up to 40,000 acre-feet of KCWA SWP entitlement water to facilitate water transfers by La Hacienda, Incorporated. The arrangements enabled La Hacienda to transfer and sell 40,000 acre-feet of its Lake Isabella water

through storing the water in the Kern Water Bank in 1996 and exchanging the water with KCWA. Only 10,000 acre-feet were transferred in 1996. The remaining 30,000 acre-feet will require further approval of the Department.

Littlerock Creek Irrigation District. The agreement, dated February 22, 1996, among LCID, PWD, and the Department, provides for the delivery of a portion of LCID annual SWP entitlement water to a turnout in PWD service area. Water diverted at the PWD turnout under this contract is treated by PWD at its water treatment plant, and returned to LCID for use within the LCID service area.

Metropolitan Water District of Southern California. The agreement, signed August 18, 1995, among MWD, KCWA, and the Department, put in place operational procedures for a groundwater storage and exchange program involving the Semitropic Water Storage District groundwater basin. This was in accordance with the provisions of the Monterey Agreement that encourage operational flexibility for the SWP, such as groundwater storage of SWP water outside a contractor's service area for later use within the service area.

San Gabriel Valley Municipal Water District. The letter agreement, dated July 19, 1995, among DRWD, SGVMWD, and the Department, provided for the delivery of up to 21,053 acre-feet of the DRWD 1995 entitlement water to SGVMWD for storage in its groundwater basin and the future return of the water to DRWD by means of an entitlement water exchange with SGVMWD.

Tulare Lake Basin Water Storage District. The letter agreement, signed October 16, 1995, among KCWA, TLBWSD, and the Department, approved the transfer of up to 1,500 acre-feet of the KCWA 1995 SWP entitlement water to TLBWSD. Lost Hills Water District, a member unit of KCWA, transferred 1,500 acre-feet to Westlake Farms, located in the TLBWSD service area. The transferred water was used to create wetland habitat for shore birds as required under a mitigation agreement between the regional water quality control board and LHWD for operation of the LHWD evaporation basin.

Tulare Lake Basin Water Storage District. The letter agreement, dated October 30, 1995, among KCWA, TLBWSD, and the Department, approved the delivery of up to 70,000 acre-feet of the KCWA 1995 SWP entitlement water to TLBWSD. The delivery facilitated exchanges among KCWA, TLB-WSD, Fresno Irrigation District, and Lower Tulare River Irrigation District.

Tulare Lake Basin Water Storage District. The letter agreement, signed May 7, 1996, among DRWD, TLBWSD, and the Department, provided for the delivery of 95 acre-feet of the DRWD 1996 entitlement water to the TLBWSD turnout. The water was delivered to farmland in the northern portion of DRWD service area that cannot be served by its current distribution system.

Tulare Lake Basin Water Storage District. A letter agreement signed June 6, 1996, between the Department and TLBWSD approved the transfer of up to 4,000 acre-feet of the TLBWSD SWP entitlement water to WWD. The agreement facilitated the water transfer from Hanson Ranches, a landowner in the TLBWSD, to lands it farms in WWD under the name of Vista Verde Farms, Incorporated.

Turnout Agreements

County of Butte. On January 6, 1992, the Department, County of Butte, and Del Oro Water Company executed an agreement to allow construction, operation, and maintenance of the Lime Saddle Marina Turnout, located on Lake Oroville, to divert water to Del Oro's water treatment plant. The turnout was completed in February 1995, and water deliveries began April 20, 1995.

Mojave Water Agency. On October 6, 1995, MWA and the Department executed an agreement to allow construction, operation, and maintenance of the Mojave River Turnout, located at milepost 389.2 of the California Aqueduct. Phase I construction began in November 1995, while Phase II construction will begin in October 1996. Once completed, the siphon-intake turnout will deliver up to a maximum of 90 cfs. The 72-mile Mojave River Pipeline will then convey the SWP water to several subbasins of the Mojave River basin.

Agreements Related to the Monterey Agreement

Agricultural Trust Agreement. One provision of the Monterey Agreement calls for the Agricultural Contractors to establish a rate management trust fund to provide for rate management and stabilization. The Trust Agreement between the County of Kings, DRWD, Empire West Side Irrigation District, KCWA, OFWD, TLBWSD, and the Department sets forth provisions for the establishment of an agricultural rate-management trust fund.

Recovery Agreement. In 1988, the State acquired property known as the Kern Fan Element as part of the SWP to incorporate into the Kern Water Bank. The principles of the Monterey Agreement established that the State would convey the KFE property to the agricultural contractors, namely the KCWA. "The Agreement for the Exchange of the Kern Fan Element of the Kern Water Bank By and Between the Department of Water Resources of the State of California and KCWA" outlined the terms and conditions for conveyance of the property. One of the terms of the Exchange Agreement was that the State shall retain one-half of the La Hacienda program water and one-half of the Berrenda Mesa demonstration program water available for extraction in the KFE. The La Hacienda program water was 83,127 acre-feet that had not been extracted upon close of escrow of the 98,005 acre-feet of the groundwater purchased by the State from the KCWA, and the KCWA from La Hacienda, Inc., in 1990. The Berrenda Mesa demonstration program water was 2,532 acre-feet that had not been extracted before the close of escrow as part of the 1990 Berrenda Mesa demonstration program. The Recovery Agreement, dated December 13, 1995, between the Department and KCWA set forth the provisions for the recovery of the State portion of the La Hacienda and Berrenda Mesa waters.

Turnback Water Pool Program. Under Article 56(d) of the Monterey Agreement, the 1996 Turnback Water Pool Program was initiated through Notice to the State Water Project Contractors No. 96-2, dated February 6, 1996. All SWP contractors were permitted to participate in the program whether or not their Monterey Amendment had been signed. The program allowed SWP contractors to offer a portion

of their approved 1996 entitlement for sale in a turnback pool for use outside their service area. Other contractors interested in purchasing this water could then request a portion or all of it. Based on supply and demand, the turnback water was allocated among the selling and purchasing contractors.

Transactions for pool A occurred in January and February; transactions for pool B occurred in March. Turnback water sold for 50 percent of the Delta Water Rate per acre-feet through pool A and for 25 percent of the Delta Water Rate per acre-feet through pool B. All money collected through the turnback pool program was paid to the selling contractors. The 1996 Turnback Water Pool Program closed April 1, 1996.

The following contractors participated in pool A of the turnback water pool program:

- SLOCFCWCD sold 16,797 af;
- SBCFCWCD sold 28,328 af;
- AV-EKWA sold 42,100 af;
- CLWA sold 6,833 af:
- SGVMWD sold 5,242 af; and
- · TLBWSD purchased 99,300 af.

The following contractors participated in pool B of the turnback water pool program:

- · SLOCFCWCD sold 7,331 af;
- SBCFCWCD sold 10,807af;
- AV-EKWA sold 37,478 af;
- CLWA sold 14,867 af;
- SGVMWD sold 7,558 af;
- · ACFCWCD-Zone 7 sold 19,600 af;
- · City of Yuba City sold 6,000 af;
- DWA purchased 64,522 af; and
- CVWD purchased 39,119 af.

Amendments to Miscellaneous Agreements with Long-Term SWP Contractors

The Department amended the following agreements between July 1, 1995, and June 30, 1996.

Kern County Water Agency. The Department executed Amendment Number 1, dated August 21, 1995, to the agreement among the Department, KCWA, and Semitropic Water Storage District allowing introduction of local water into the California Aqueduct. The amendment extended the term of the agreement from January 1, 2005, to November 4, 2035. The agreement was extended to match the term of the Point of Delivery Agreement among the KCWA, the MWD, and the Department that puts in place operational procedures for a groundwater banking program involving the SWSD groundwater basin and the turn-in.

Kern County Water Agency. By letter agreement dated November 22, 1995, the Department amended the Stage Two agreement between KCWA and the Department regarding the use of KFE properties to allow for spreading over the area encompassing both the Stage One and Stage Two areas. The inclusion of the Stage One property in the Stage Two agreement allowed for continued spreading on the Stage One property through March 31, 1996. By letter agreement dated March 28, 1996, the Department extended the term of the Stage Two agreement to March 31, 1997.

Kern County Water Agency. The Department executed Amendment Number 4 to the agreement between KCWA and the Department for operation of the Hacienda groundwater program. The Amendment established a new price and a new cost schedule for the 2-year period beginning April 1, 1996.

Agreements with Other Agencies

In addition to negotiating agreements with SWP contractors to provide for specified water deliveries, the Department also entered into several agreements with other agencies for water conveyance, or exchange, for the period July 1, 1995, through June 30, 1996.

Water Conveyance Agreements-CVP Water

The Department regularly enters into agreements to convey CVP water, such as agreements with contractors receiving water from the U.S. Bureau of Reclamation through the Cross Valley Canal, a water

conveyance facility that connects with the California Aqueduct near Tupman in Kern County. Other agencies or corporations, including the U.S. Department of Veterans Affairs, U.S. Fish and Wildlife Service, and Musco Olive Products, Inc., also receive CVP water through agreements between the Department and USBR.

Cross Valley Canal. The eight, three-party Cross Valley Canal contracts for conveyance of CVP water through the California Aqueduct—executed in 1975 and 1976—among the Department, the U.S. Bureau of Reclamation, County of Fresno, County of Tulare, Hill's Valley Irrigation District, Kern-Tulare Water District, Lower Tule River Irrigation District, Pixley Irrigation District, Rag Gulch Water District, and Tri-Valley Water District, expired on December 31, 1995. However, on December 28, 1995, all eight contracts were amended to extend their expiration date to February 29, 1996. On February 29, 1996, the Department, USBR, and the eight CVC contractors signed interim renewal contracts. These interim contracts will be in effect until February 28, 1998. The contracts may be extended, first, for 1 year and then, for successive terms of 2 years until the appropriate environmental review for the pertinent long-term renewal contracts is completed. When all the appropriate environmental review is completed, 25-year contracts will be negotiated upon request of the CVC contractors. The Department agreed to convey up to 128,300 acre-feet of CVP water under those contracts.

Musco Olive Products, Inc. An annual agreement dated April 16, 1996, between the Department and USBR provides for the conveyance of up to 300 acre-feet of CVP water to Reach 2A of the California Aqueduct for use by Musco Olive Products, Inc. This water is to be conveyed from March 1, 1996, through December 31, 1996.

U.S. Department of Veterans Affairs. An annual agreement dated April 16, 1996, between the Department and USBR approved the conveyance of up to 450 acre-feet of CVP water to Reach 2B of the California Aqueduct for use by the U.S. Department of Veterans Affairs San Joaquin Valley National Cemetery. The water is to be conveyed from January 1, 1996, through December 31, 1996.

U.S. Fish and Wildlife Service Cooperative Agreement. USBR initiated a cooperative agreement with the Department to deliver CVP water to the Kern National Wildlife Refuge for USFWS. Under the terms of this cooperative agreement, dated September 9, 1994, up to 26,530 acre-feet of CVP water would be delivered from Check 21 to the Buena Vista Water Storage District Turnout BV-1B, on Reach 10A of the California Aqueduct, from October 1, 1993, through April 10, 1995. Since the cooperative agreement was signed, four modifications to the agreement have been executed. Under Modification No. 001, dated October 31, 1994, additional funding was provided. Under Modification No. 002, dated April 14, 1995, the following changes were made:

- the term of the agreement was extended through April 10, 1998;
- Storage District Turnout BV-2B, on Reach 12E of the California Aqueduct, was added as a second point of delivery;
- · additional funds were provided; and
- the quantity of water to be delivered was increased to 82,837 acre-feet.

Modification No. 003, executed May 10, 1995, defined the water delivery rates for calendar year 1995 and specified that those rates will be adjusted annually. Modification No. 004, executed March 7, 1996, incorporated water delivery rates for calendar year 1996.

Other Agreements

Last Chance Creek Water District. On June 6, 1996, the Department and LCCWD signed a contract providing for a continuing water supply for LCCWD from Frenchman Lake through December 31, 2000. Since 1962, the Department has provided continuous water service to LCCWD from Frenchman Lake through a series of short-term agreements.

Westlands Water District–Kings River Water. An agreement dated May 17, 1996, between the Department and WWD approved delivery to WWD of up to 10,000 acre-feet of Kings River water from the Mendota Pool through reaches 4 through 7 of the California Aqueduct. This non-SWP water was made available to WWD through an agreement between

WWD and the Kings River Water Association. The water was released from Pine Flat Reservoir and flowed to the Mendota Pool via the Kings River and Fresno Slough. WWD then conveyed the water from the Mendota Pool to the California Aqueduct through WWD Lateral 7. During May 1996, 955 acre-feet of Kings River water were conveyed to WWD. This agreement expired June 30, 1996.

Turnout Agreements

San Francisco. The City and County of San Francisco has two turnouts for unforeseen emergency water needs on the South Bay Aqueduct. The San Antonio turnout, constructed in 1990, has a 75-cfs capacity and the Sunol temporary turnout, constructed in 1991, has a 35-cfs capacity. The agreement for maintenance and operation of the San Antontio turnout was signed June 8, 1995, and terminates April 19, 1999. The Sunol temporary turnout agreement for construction, operation, and maintenance was signed August 22, 1991, and a fourth amendment was executed on February 14, 1996, which extends the agreement to August 1, 1996. A long-term Sunol agreement similar to the San Antonio agreement is being negotiated between the Department and San Francisco.

Water Deliveries

The SWP delivers water for a variety of beneficial uses. In addition to delivering entitlement water to long-term water supply contractors, the SWP:

- conveys water to and stores water for other public agencies through special contracts and agreements;
- provides water for wildlife and recreational uses; and
- stores, releases, and delivers local runoff water from SWP facilities to agencies that hold local water rights.

In 1995, 2,972,500 acre-feet of water were conveyed to 25 long-term contractors and 15 other agencies. That amount includes 2,031,423 acre-feet of entitlement¹ and 2,575 acre-feet of entitlement- related (recreation/fish and wildlife) water. It also includes 15,589 acre-feet of operational flood release water as well as 922,913 acre-feet of nonentitlement water

delivered to satisfy agreements made with SWP contractors and other agencies, including USBR. Figure 10-1 shows amounts of water delivered to various locations during 1995.

Specific information about water deliveries made to long-term contractors and other agencies during 1995 and historical deliveries from 1962 through 1995 is presented in the following three sections, each with a corresponding table:

- water delivered and future credits granted to long-term contractors in 1995 (Table 10-3);
- water delivered in 1995, by month (Table 10-4); and
- annual water entitlements and water conveyed, by water type, from 1962 through 1995 (Table 10-5).

Water Deliveries and Credits to Long-Term SWP Contractors

Table 10-3 shows amounts of water delivered in 1995 and future entitlement credits granted to long-term contractors through 1995. The following information about specific columns in Table 10-3 is arranged by column number.

1995 Entitlement Water Delivered. Columns 1 through 4 show a detailed breakdown of current- year entitlement water delivered to long-term water supply contractors in 1995.

1995 Interruptible Water. Column 5 shows 64,330 acre-feet of 1995 Interruptible Water delivered to long-term water supply contractors in 1995.

1994 Carryover Entitlement Water Delivered During 1995. In some instances, with the Department's approval, contractors may delay delivery of entitlement water to the next year (also known as carryover entitlement water). Column 6 shows that the SWP delivered 53,001 acre-feet of entitlement water carried over from 1994 to six contractors.

¹ Entitlement water is defined as the amount of water long-term contractors may request each year as part of Article 12(a), "Procedure for Determining Water Delivery Schedule," of their water supply contract.

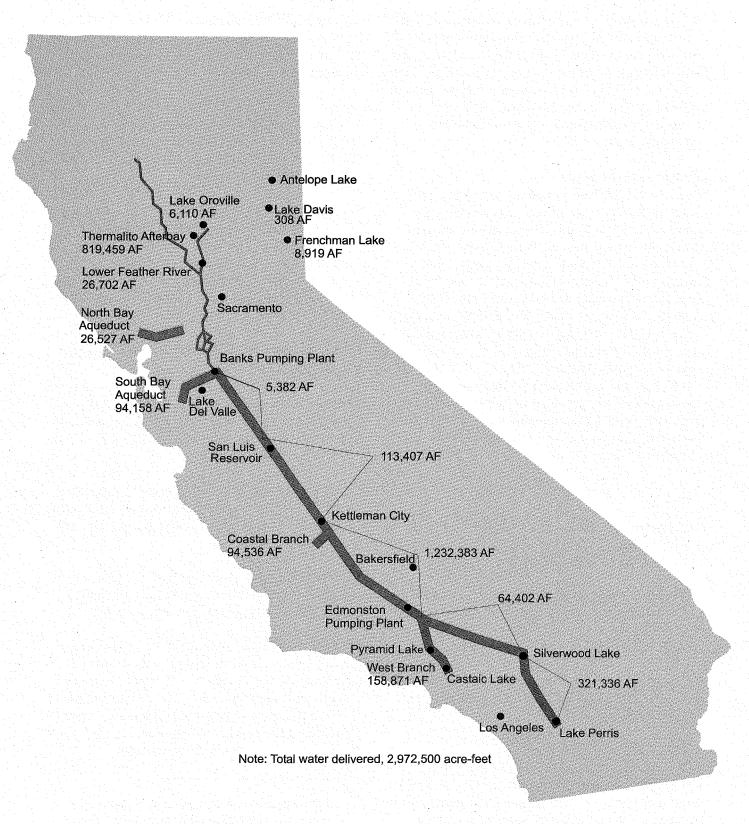


Figure 10-1
Water Delivered in Calendar Year 1995 and Delivery Locations

Water Delivered in 1995 and Credits Granted to Long-Term Contractors through 1995, by Service Area (Acre-Feet) Table 10-3

				Motor	Inorior in 10	96									
				Entitlemen	Entitlement Mater Deliveries	Spirites						uture Entitlemen	Figure Entitlement Credits as of January 1 1996	January 1 199	
	1005	1005		Limiterior	Water Delive	21100					-1	חומום דיוווויםווים	ii ciediis as oi o	dinding 1, 199	
	Futitlements	Fotitlements	1995										1005		Future
	without	Delivered Entitlement	-utitlement			1004						Wet-Weather	Corner	Futiflement	Futitlement
	Transfers	חבוואפופח די	Delinand	Total 400E	1005	Total	Make	Make the				Motorope	Carryover	Total	Poduction
	Evolution &	Q.	to	Futitlement Internintible		Delivered	Mater ner	Water per	Total	Other Water	Total	Articles	Approved for Delivery	Delivery	Gradit par
	Storage, G	Exchanges	Storage	Delivered 1			_	_	ju;		Deliveries	7 or 45	in 1996	Credit	Art. 7 or 45
Water Contractor or Agency	E	(2)	(3)		(9)						(11)	(12)	(13)	(14)	(12)
Upper Feather River Area															
City of Yuba City	910			910					910		910			0	
County of Butte	203			203					203		203			0	
Plumas County Flood Control and															
Water Conservation District	308			308					308		308			0	
North Bay Area															
Napa County Flood Control and															
Water Conservation District	5,182			5,182					5,182		5,182			0	
Solano County Water Agency	21,345			21,345					21,345		21,345		855	855	
South Bay Area															
Alameda County Flood Control and Water															
Conservation District, Zone 7	30,091			30,091					30,091	12,080	42,171	123,499		123,499	
Alameda County Water District	17,793			17,793					17,783	5,292	23,085			0	
Santa Clara Valley Water District	28,756			28,756					28,756		28,756		1,021	1,021	
San Joaquin Valley Area															www.
Castaic Lake Water Agency	9.486			9.486					9.486		9,486			0	•
County of Kings	4,000			4 000					4 000		4 000			C	
Dudley Dister District	4,000	346		45,400		4 000	į.		4,000		45,485			0	
Dudiey Riuge Water District	45,64	247		40,488	0	000,1			40,400		10,100		407	497	
Empire west side irrigation District	/CS			200	001	200			1,031		1,00,1		497	764	
Kern County Water Agency	986,640			986,640	59,671	7,295			1,053,600	13,117	1,066,723		59,653	529,623	
Oak Flat Water District	5,169			5,169					5,169		5,169			0	2,466
Tulare Lake Basin Water Storage District	71,679	41,500		113,179	4,553	22,137			139,869		139,869		38,570	38,570	
Central Coastal Area															
San Luis Obispo County Flood Control															
and Water Conservation District	0			0					0		0			0	
Santa Barbara County Flood Control															
and Water Conservation District	0			0					0		0			0	
Southern California Area															
Antelope Vallev-East Kern Water Agency	47.286	1.227		48,513					48,513		48,513			0	
Castaic Lake Water Agency	16,174			16,174		1,573			17,747		17,747			0	,
Coachella Valley Water District	23,100			23,100					23,100		23,100			0	
Crestline-Lake Arrowhead Water Agency	409			409					409	475	884			0	
Desert Water Agency	38,100			38,100					38,100		38,100			0	
Littlerock Creek Irrigation District	480			480					480		480				
Metropolitan Water District of															
Southern California	346.600	4.063	50.000	400,663		19,442		20,000	440,105		440,105		40,121	40,121	
Mojave Water Agency	2,495			2,495				2,000	7,495		7,495				
Palmdale Water District	6,961			6,961					6,961		6,961			0	
San Bernardino Valley Municipal															
Water District	969			969					969		969			0	-
San Gabriel Valley Municipal															
Water District	8,859			8,859					8,859		8,859			0	
San Gorgonio Pass Water Agency	0			0					0		0			0	
Ventura County Flood Control District	0			0					0		0			ο.	
Subtotal	1 716 933	47 035	20 000	1813.968	64.330	53.001	0	25,000	1.956.299	30.964	1.987.263	123.499	140.687	264.186	2.466
												•			
Westlands Water District (b		75,124		75,124	÷				75,124		75,124				
					1			٠.	007 700 0	•	200 000 0	007	440 607	700	2000
Total	1,716,933	122,159	20,000	1,889,092	64,330	53,001	•	52,000	2,031,423	30,964	2,062,387	123,499	140,687	264,186	
a) Includes local general wheeling and operat	fional flood rafeases	vafer													
y mountained by State following: 14 Ada are feet transformed from County Water Anency: and 10 875 acre-feet exchanged with Kem County Water Anency: and 10 875 acre-feet exchanged with Kem County Water Anency:	ashar need from Dudley	Ridge Wafer D	istrict: 49 80	13 acre-feet to	ansferred fro	m Kern Coun	ntv Water Age	nev. and 10.85	75 acre-feet e	xchanged with	h Kern Count	Water Agency.			
ווומתוחסם חום ולווומסוולו ביים חיים ביים חיים חיים חיים חיים חיים	ואומווסע וועווו בעעונען	Nugo vratu.	ואמוניו, דלי,	אם מתוביופרו י	alference no	20 1001	ily vraidi rad	noy, and rese		avelianista.		Tarrio Barran			
_															

Table 10-4
Water Delivered in 1995, by Month
(Acre-feet)

Page 4 of 5	1995 Contract	Entitlement		138,400		54,200		22 100	001,62	5.800			38,100		2,300		2,011,500					-	20,800				17,300		102,600		28,800			17,300	20,000
	1995 Total	စ္အ	 	47,286	48,513	16,174	1,573	22 100	23,100	409	475	409	38,100	3	480	0	346,600	19,442	20,000	600	440,105		2,495	200	1,227	2	6,961	6,901	969	969	8,859	690	4,003 8,859		0
		Dec.		2,029	2,072	543	0 543	100	1,925	6	0		2,883	0001	0	>	27,146	00	2,000	ć	29,146		1,333	>	1333	200	607	/09	99	99	644	c	644	0	0
		Nov.		1,716	1,756	682	0 682	400	1,925	99	0	99	2,883	50,1	မ (16,559	0 0	2,000	60.	20,155	. !	117	,	40 117		22 8	2	122	122	1,114	902	1,114	0	0
		Oct.		2,986	3,097	1,654	1,654	100	1,925	6	0	<u>0</u>	2,883	2,000	25	č	22,099	0 0	2,000		25,212		ю c	•	£ «)	5 5	5	85	82	1,004	44.0	1,00,1	0	0
		Sep.		6,226	6,371	2,507	2,507	1005	1,925	125	0	125	2,883	200,4	23	3	57,956	00	2,000	·	59,956	. !	1,037	2	145	<u>.</u>	764	49	136	136	1,081	•	1,081	0	0
		Aug.		7,832	7,992	2,477	0 2,477	100	1,925	S	175	္က	2,883	2001	101	<u>=</u>	59,951	0 0	3,000		62,951		0 199	3	160	3	1,781	1,781	88	88	1,239	c	1,239	0	0
				7,748	7,953	026'1	066,1	400	1,925	c	97	0	2,883	200	80	₹	56,375	00	2,000		58,375		0 883	3	205	3	744	,744	126	126	,715		1,715	. 0	0
	Month	July		•			0 ,671			_	09	0			06			0 0					0 859	3	148		484		20	6	33			0	0
Acre-reet)	V	June		6,067	6,215	1,671	9,1	Ť	1,925				2,883	1			41,495	24 500	3,000		75,995		33	5	~ ~	5	4.	<u>4</u>			1,133		1,133		
₹		Мау		4,736	4,815	1,374	1,374	1 005	1,925		38	0	2,883	4,000	74	4	29,353	10 500	2,000	i	51,207		1 248	, F	79.	1	14	411	26	78	491	4	491	0	0
		Apr.	·	3,351	3,459	2,018	2,018	200	1,925		78.	0	2,883	4,000	19	<u> </u>	32,501	00	2,000		34,501		0 199	3	108	3	8 8	3	0	0	0		00	0	0
		Mar		1,630	1,722	1,318	1,318	100	1,925	¢	23	0	2,883	2,000	0	5	3,165	00	0	c	3,165		400	2	95	P P	о	.	0	0	0	•	0	0	0
		Feb.		1,593	1,671	0	593 593	4 005	1,925		37	0	2,886	2,000	0	.	0	4,816	0		0 4,816	,	0 200	007	78		ი (o	0	o .	438		438	0	0
		Jan.		1,372	1,390	0	086 086	1 005	1,925	c	8 9	0	6,384	00.0	0	> .	0	14,626	0		14,626	,	0	i	18	i	ဖ	٥	0	0		c	0	0	0
		ervice		ojave WA						_						alifornia				ın Gabriel				lope Valley-				District		<u>.</u>	2	politan	*		
		and Type of S.	I Water Agency	water from Mr		ă.	vater	strict		Water Agency		d water)		District		of Southern C		vater		water from Sa	•			water to Antel	1 water)	1		Jicipal Water D		ol Water Dietri	אמופו רופים	water to Metro	1 water)	Agency	frol District
		Contracting Agency and Type of Service	Southern California Area Antelone Vallev-East Kern Water Agency	Entitlement water Transferred entitlement water from Molave WA	Agency Total	Entitlement water	Carryover entitlement water Agency Total	achella Valley Water Dis	Total	Crestline-Lake Arrowhead Water Agency Entitlement Water	(ter*	Agency Total ("excluded water) sert Water Agency	Entitlement water	Littlerock Creek Irrigation District	Entitlement water	Agency Total Metropolitan Water District of Southern California	Entitlement Water	Carryover entitlement water	Article 14(b) M&I water	Exchanged entitlement water from San Gabriel	Total	er Agency	Entitlement water Article 14(h) M&I water	Transferred entitlement water to Antelope Valley-	East Kern WA* Anency Total (*excluded water)	Palmdale Water District	Entitlement water	Agency Total San Bernardino Valley Municipal Water District	Entitlement Water	Agency Total Sen Gebriel Velley Municipal Water District	Entitlement water	Exchanged entitlement water to Metropolitan	water District Agency Total (*excluded water)	San Gorgonio Pass Water Agency Entitlement water	Ventura County Flood Control District Entitlement water
		Contr	Southern C	Entitlem	Agency Total	Entitlem	Carryove Agency .	Coachella \	Agency Total	Crestine-La	Local water*	Agency lotal (*exc	Entitlement w	Littlerock Cr	Entitlem	Agency Total	Entitlem	Carryove	Article 14	Exchange	Agency Total	Mojave Water Agency	Article 14	Transferi	East M	Palmdale W	Entitlem	Agency lotal	Entitlem	Agency Total	Entitlem	Exchang	water Agency	San Gorgor Entitleme	Ventura Cot Entitleme

Article 12(d) Water. No article 12(d) water was delivered in 1995. (See column 7).

Article 14(b) Water. In 1995, the SWP delivered 25,000 acre-feet of Article 14(b) water to MWD and MWA. (See column 8).

Total Entitlement Water Delivered. Column 9 shows all entitlement water delivered in 1995, a total of 2,031,423 acre-feet. This amount includes 75,124 acre-feet of entitlement water transferred to or exchanged with Westlands.

Other Water Deliveries. Column 10 includes deliveries of water other than entitlement water, such as deliveries of nonproject water, to long-term water contractors. Nonproject water is generally defined as water purchased from non-SWP agencies. The water is conveyed by the Department and in some instances stored in SWP facilities under special agreements for future deliveries.

In 1995, other water deliveries totaled 30,964 acre-feet.

Total Deliveries. Column 11 shows total amounts of water delivered to long-term contractors. In 1995, the SWP delivered 2,062,387 acre-feet to 25 long-term contractors. This amount included 2,031,423 acre-feet of entitlement water and 30,964 acre-feet of other SWP and nonproject water.

Wet-Weather Water. According to provisions of their water supply contracts, South Bay and certain San Joaquin Valley contractors may reduce deliveries of entitlement water in years when above-average amounts of local water are available; they may request increased deliveries by an equal amount in later years. Column 12 shows that the Alameda County Flood Control and Water Conservation District-Zone 7 acquired 11,919 acre-feet of wet-weather water credit in 1995 for a total of 123,499 acre-feet of credits.

Carryover Water Approved for Delivery. For several years, the Department has offered contractors the opportunity to carry over a portion of their entitlement water approved for delivery in the current year for delivery during the next year. The carryover program

was designed to encourage the most effective and beneficial use of water and to avoid obligating the contractors to use or lose the water by December 31 of each year. Because operational constraints may change from year to year, the Department prepares an agreement that lists the conditions of carryover water delivery for a given year. The agreement is signed by participating contractors.

Column 13 shows that the Department approved 1995 carryover water for delivery in 1996. Amounts approved/delivered are as follows:

- · SCFCWCD, 13,669/855 acre-feet;
- SCVWD, 21,244/1,021 acre-feet;
- OFWD, 531/0 acre-feet;
- KCWA, 64,295/59,623 acre-feet;
- TLBWSD, 46,821/38,570 acre-feet; and
- · MWD, 100,000/40,121 acre-feet.

Total Delivery Credits. Column 14 shows total future entitlement credits according to Article 7 of the long-term water supply contract for specific agencies. On January 1, 1995, the total amount of credits was 264,186 acre-feet, including 123,499 acre-feet of wet-weather water and 2,466 acre-feet of 1994 carryover water.

Reduction Credits. According to the provisions of their water supply contracts, South Bay and San Joaquin Valley contractors may increase their allocated entitlement water (up to their maximum annual entitlement) in years of need, provided that additional water is available from the SWP according to Article 7 or Article 45 of the long-term water supply contracts.

Contractors who increased their allocation of entitlement water in previous years may in any 1 year reduce their supply by the amount the supply had been increased previously. Column 15 shows those credits. Oak Flat Water District has 2,466 acre-feet of future reduction credits available according to Article 45. At this time no other contractors have reduction credit balances.

Water Delivered in 1995, by Month

During 1995, the SWP provided water service to 40 agencies, including 25 long-term water contractors.

Those agencies and the amounts of water delivered to them by month are listed in Table 10-4.

This section and the accompanying table summarize water deliveries for 1995. Information about those deliveries is categorized as State Water Project Water and Nonproject Water.

State Water Project Water. State Water Project water is classified into the following categories:

Entitlement water

current year entitlement (1995) interruptible entitlement (1995) Article 14(b) make-up entitlement water carry-over entitlement (1994) bypass entitlement (1995) stored entitlement (1995)

Recreation and fish and wildlife water enhancement mitigation

Operational flood release water operational flood release.

In addition, the SWP may approve exchanges and transfers of entitlement water among various contractors if certain conditions are met. The SWP may temporarily loan water to contractors if satisfactory arrangements are made for repayment and water is available within the system.

In 1995, SWP water was delivered in the following classifications and amounts.

Entitlement Water

A total of 2,031,423 acre-feet of 1995 entitlement water was delivered to 25 long-term contractors.

Transfers and Exchanges of Entitlement Water. During 1995, a total of 111,721 acre-feet of entitlement water was transferred between five SWP long-term contractors and one non-SWP water agency as follows:

- KCWA to DRWD, 245 acre-feet;
- KCWA to TLBWSD, 41,500 acre-feet;
- KCWA to WWD, 49,803 acre-feet;

- MWA to Antelope Valley-East Kern Water Agency, 1,227 acre-feet;
- DRWD to KCWA, 1,000 acre-feet;
- DRWD to WWD, 14,446 acre-feet; and
- TLBWSD to KCWA, 3,500 acre-feet.

During 1995, a total of 14,938 acre-feet of entitlement water was exchanged between three SWP long-term contractors and one non-SWP water agency as follows:

- · KCWA to WWD, 10,875 acre-feet; and
- SGVMWD to MWD, 4,063 acre-feet.

Carryover Entitlement Water. In 1995, SWP delivered 53,001 acre-feet of 1994 carryover entitlement water to DRWD, EWSID, KCWA, TLBWSD, Castaic Lake Water Agency, and MWD. TLBWSD transferred 3,500 acre-feet and DRWD transferred 1,000 acre-feet of carryover water to KCWA.

Article 14(b) Water. In 1995, the SWP delivered 20,000 acre-feet of Article 14(b) water to MWD and 5,000 acre-feet to MWA.

Interruptible Entitlement Water. The interruptible entitlement water program allows a contractor to take delivery of entitlement water over the approved and scheduled allocations for the current year. Interruptible water is available for delivery on a short-term basis as determined by the Department when scheduled project demands are being delivered and operational requirements for project water deliveries, water quality, and other requirements are being met.

In 1995, three contractors participated in the program. A total of 64,330 acre-feet of interruptible water was delivered to EWSID, KCWA, and TLBWSD.

Water for Recreation and Fish and Wildlife. A total of 2,575 acre-feet of SWP water was conveyed for recreational use and enhancement of fish and wildlife.

Recreational Use. The SWP delivered 573 acre-feet of water for facilities at Lake Del Valle, O'Neill Forebay, Silverwood Lake, Lake Perris, and Castaic Lake. In addition, 1,223 acre-feet were delivered to

Castaic Lake and Castaic Lagoon, an impoundment downstream from Castaic Lake devoted entirely to recreation.

Trout Fishery. The SWP released 19 acre-feet of water to maintain a trout fishery in Piru Creek as a condition of obtaining a license from the Federal Energy Regulatory Commission to develop a power plant at Pyramid Lake.

Wildlife Management. The SWP delivered 718 acre-feet of water to use in managing wildlife in the Pilibos Wildlife Area, 40 miles south of Los Banos, and on about 770 acres of land near O'Neill Forebay.

The SWP delivered 42 acre-feet of water for the Gamebird Heritage Program at the KFE property on behalf of the Department of Fish and Game.

Operational Flood Release Water. In March 1995, the California Aqueduct was inundated by flood flows in the Arroyo Pasajero area (Reach 6, milepost 152). In response, the Department requested nearby SWP contractors to divert these flows to their service areas to reduce damage to the aqueduct. KCWA diverted 13,117 acre-feet of operational flood release water from reaches 10A, 12E, and 13B. The Department and the Corps of Engineers are currently investigating various flood control alternatives.

In January, February, and March of 1995, Operational Flood Release Water was diverted from the South Bay Aqueduct to protect Lake Del Valle. Alameda County Flood Control and Water Conservation District-Zone 7 diverted 1,288 acre-feet in January and 42 acre-feet in February from Reach 5, and Alameda County Water District diverted 582 acrefeet in January and 560 acre-feet in March from Reach 7. A total of 15,589 acre-feet of Operational Food Release Water was diverted from the SWP to three contractors in 1995.

Nonproject Water. In 1995, the Department used SWP facilities to convey non-SWP water for various agencies according to the terms of water rights and water transfer and exchange agreements. The Department used SWP facilities to convey CVP water; water exchanged between KCWA and Tulare Irrigation District; water transferred from Byron-Bethany Irrigation District to ACFC-WCD-Zone 7; water

rights water; water acquired by WWD from Kings River Water Association and Merced Irrigation District; and water pumped into the California Aqueduct by WWD for delivery within WWD at a different location. Detailed information concerning those conveyances follow.

Alameda County Flood Control and Water Conservation District-Zone 7. Under a contract executed July 28, 1995, between the Department and ACFCWCD-Zone 7, the Department conveyed 667 acre-feet of non-SWP water for ACFCWCD-Zone 7 during 1995. The Department conveyed this water in September directly from the Delta to Reach 6B of the South Bay Aqueduct. ACFCWCD-Zone 7 purchased the rights to transfer this water from Byron-Bethany Irrigation District under a separate contract.

Central Valley Project Water. In 1995, the Department conveyed 10,525 acre-feet of CVP water through SWP facilities. Conveyance was made in accordance with agreements negotiated with USBR as follows:

Musco Olive Products, Incorporated. In accordance with terms of two conveyance agreements with the USBR dated May 9, 1995, and April 16, 1996, the Department conveyed 193 acre-feet of CVP water to Reach 2A of the California Aqueduct for Musco Olive Products, Inc.

U.S. Fish and Wildlife Service. The Department conveyed 9,725 acre-feet of CVP water for the USFWS according to provisions of a cooperative agreement initiated by the USBR dated September 9, 1994. The water was conveyed to the Kern National Wildlife Refuge through Reach 10A of the California Aqueduct.

Recreational and Wildlife Use. In 1995, the Department conveyed 587 acre-feet of CVP water to the Department of Fish and Game at O'Neill Forebay and Lateral 7.

U.S. Department of Veterans Affairs. Under an annual agreement with the USBR dated May 9, 1995, the Department conveyed 20 acre-feet through SWP facilities to maintain the San Joaquin Valley National Cemetery near Santa Nella, California. Deliveries

were made through Reach 2B of the California Aqueduct.

Westlands Water District-Merced Irrigation District. Under a contract executed February 1, 1995, but made effective October 6, 1994, the Department agreed to convey up to 13,500 acre-feet of water for WWD from MID from October 9, 1994, through March 31, 1995, either directly from the Delta or from the Department's share of storage in San Luis Reservoir. The water was not delivered directly from the Delta but was pumped into the Department's share of storage in San Luis Reservoir. During December 1994, 3,392 acre-feet of stored water was released from San Luis Reservoir and delivered to WWD. In January 1995, the remaining 9,838 acre-feet of water was released from San Luis storage for delivery to WWD through reaches 4 and 5 of the California Aqueduct.

Westlands Water District-"Turn-In" Agreements. In August 1994, the Department signed two "turn-in" agreements with WWD. Under the terms of the first agreement, WWD would pump up to 100,000 acre-feet of groundwater directly into the California Aqueduct from WWD wells located along the aqueduct. Under the second agreement, WWD would pump up to 50,000 acre-feet of groundwater into the Mendota Pool for conveyance to the California Aqueduct through WWD's Lateral 7. During 1994, 96,500 acre-feet of groundwater was pumped under both agreements. Of this amount, 69,400 acre-feet was taken by WWD as direct delivery and 27,100 acre-feet was placed into storage in San Luis Reservoir by exchange. In 1995, during January and February, a total of 4,000 acre-feet of pumped groundwater was taken by WWD as direct delivery and 27,100 acre-feet was released from San Luis Reservoir storage for delivery to WWD in aqueduct reaches 4 through 7.

Westlands Water District-Kings River. An agreement dated May 25, 1995, between the Department and WWD approved the acceptance into the California Aqueduct of up to 10,000 acre-feet of Kings River Water from the Mendota Pool for conveyance to WWD through reaches 5, 6, and 7 of the California Aqueduct. The non-SWP water was delivered from the Mendota Pool to the aqueduct through

WWD's Lateral 7. The agreement was effective from April through July 1995. During this period 3,132 acre-feet of Kings River water was conveyed to WWD.

Water Rights Water. Water in this category is transported through SWP facilities to long-term SWP contractors and other agencies according to terms of various local water rights agreements. Some water simply passes through SWP transportation facilities; a portion is stored in SWP reservoirs for release at a later time. In 1995, 874,845 acre-feet of water in this category were delivered to the Feather River, North Bay, South Bay, and Southern California areas.

Feather River Area. Nine nonproject agencies in the Feather River area received 860,077 acre-feet. Those agencies are Last Chance Creek Water District (8,919 acre-feet), Thermalito Irrigation District (2,321 acre-feet), Oroville-Wyandotte Irrigation District (6,110 acre-feet), Western Canal Water District (220,835 acre-feet), Joint Water District Board (596,100 acre-feet), Tudor Mutual Water Company (2,621 acre-feet), Oswald Water District (788 acre-feet), Garden Highway Water Company (14,741 acre-feet), and Plumas Mutual Water Company (7,642 acre-feet).

North Bay Area. In the North Bay area, the Department delivers water as Vallejo permit water to SCWA. The city of Vallejo, as a member agency, has contractual rights to extra capacity in the North Bay Aqueduct to transport this water. In 1995, no water was delivered under this classification.

South Bay Area. In the South Bay area, 14,233 acre-feet of local water was delivered to two South Bay Aqueduct contractors. ACFCWCD-Zone 7 and ACWD hold water rights to runoff from the Lake Del Valle watershed.

Southern California. In Southern California, 475 acre-feet of local runoff from the Houston Creek watershed were stored and delivered to Crest-line-Lake Arrowhead Water Agency. These local water rights have been signed over to the Department as part of the contractual arrangements for storing and delivering this local runoff for the Crestline-Lake Arrowhead Water Agency.

Annual Water Entitlements and Water Delivered Since 1962

Information about annual water entitlements and water conveyed for the past 34 years is contained in Table 10-5. The following discussion of entitlements and water conveyed is arranged according to column numbers.

Annual Entitlements. Columns 1 through 7 of Table 10-5 show the amount of the long-term contractor's entitlement water by area for years 1962 through 1995 as specified in the entitlement schedules (Table A, Annual Entitlements) of the long-term water supply contracts.

In some instances these entitlement schedules, projections of each contractor's need for water to 2035, have been amended to meet the needs of individual contractors. The amounts of entitlement water each contractor may request for years 1962 through 2035 may be found in Table B-4, Annual Entitlements to Project Water, in Appendix B.

Water Delivered. Columns 8 through 16 show water delivered or conveyed, including initial fill water and operational losses and storage changes.

Entitlement Water. Column 8 shows amounts of entitlement water delivered each year from 1962 through 1995. In 1995, entitlement water delivered to 25 contractors totaled 2,031,423 acre-feet. That amount includes 64,330 acre-feet of 1995 interruptible entitlement water.

Surplus and Unscheduled Water. Surplus water is water in excess of that required to meet all demands for entitlement water and water to be stored in SWP reservoirs.

Column 9 shows amounts of surplus and unscheduled water delivered from 1962 through 1995. During 1993 through 1995, surplus and unscheduled water were not delivered.

Other Water. Column 10 includes amounts of water classified as other water delivered in 1995, including nonproject water conveyed through SWP facilities and regulated delivery of local supply.

In 1995, a total of 78,425 acre-feet of other water was delivered.

Feather River Diversions. Column 11 includes amounts of water from the Feather River delivered according to agreements for water rights water. In 1995, a total of 860,077 acre-feet in this category was delivered to contractors in the Feather River area.

Recreation Water. Column 12 shows water conveyed for recreational use or to provide water or improve water quality for fish and wildlife. In 1995, a total of 2,575 acre-feet of SWP water was conveyed for this purpose.

Initial Fill Water. The quantities listed in Column 14 represent the amounts used to initially fill the aqueducts and reservoirs south of the Delta to maximum operating capacities. Initial filling began in 1962 with the filling of the South Bay Aqueduct and was completed in 1979 when Lake Perris reached its maximum operating capacity of 127,000 acre-feet.

Operational Losses. Column 15 includes the total amounts of water lost through evaporation and seepage, net storage changes in reservoirs south of the Delta, and amounts of inflow from local drainage areas, including inflows into San Luis Canal and from the Kern River Intertie. In 1995, that amount totaled 69,536 acre-feet.

Negative values are indicated for years when withdrawals and evaporation from reservoirs south of the Delta exceed the amounts of water added to the reservoirs.

Information for this chapter was provided by the State Water Project Analysis Office.