

# MANAGEMENT OF THE CALIFORNIA STATE WATER PROJECT

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CVP water to Kern National Wildlife Refuge in 2004.

**Other Turnout Agreements.** In 2003, there was one new turnout agreement with a non-SWP contractor agency.

**Plain View Water District.** An agreement executed October 1, 2003, between DWR and Plain View Water District, allowed the construction, operation, and maintenance of a permanent Musco Family Olive Company Turnout at Milepost 12.47, Reach 2A of the California Aqueduct. Construction is currently unscheduled. The agreement contains provisions for submitting plans and specifications within 1 year of executing the agreement.

## Water Deliveries

### Approved Table A Deliveries

Each year, by October 1, the SWP long-term water contractors submit initial requests for approved Table A deliveries allocated to contractors for use in the subsequent calendar year. Initial approved Table A amounts for the coming year are made by DWR in December and are based on operations studies that assume 90 percent exceedence of historic water supply (where exceedence refers to the possibility that water supply in the coming year will be exceeded by the historic water supply), current reservoir storage, and total requests by the SWP water contractors. Forecasts for the year are updated as hydrological conditions change. Approved Table A amounts are increased or decreased depending on both actual and projected hydrologic conditions.

On October 1, 2003, SWP long-term contractors submitted initial requests for 2004.

DWR approved deliveries of 1.45 million acre-feet on December 1, 2003, resulting in initial approved Table A amounts of 35 percent of most SWP contractor requests. DWR increased the 2004 approved Table A amounts to 2.06 million acre-feet, or 50 percent on January 15, 2004.

As water conditions improved, approved Table A amounts were increased to 2.68 million acre-feet (60 percent) on March 01, 2004.

Notices to State Water Project Contractors informing them of increases or decreases in approved Table A amounts are online at <http://www.swpao.water.ca.gov/notices/index.cfm>.

### SWP Deliveries

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

- conveys water to 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 2004, 4,380,657 acre-feet of water were conveyed to 27 long-term contractors and 26 other agencies. That amount includes

- 2,599,536 acre-feet of approved Table A water;
- 217,870 acre-feet of Article 21 water and 626 acre-feet of unscheduled water;
- 2,865 acre-feet of SWP water for recreation, fish and wildlife; and
- 1,174,672 acre-feet of water delivered to satisfy water rights settlement agreements and agreements with SWP contractors for local water supplies.

Figure 9-1, shows amounts of water delivered to various locations during 2004.

Specific information about water deliveries made to long-term contractors and other agencies during 2004 and historical deliveries from 1962 through 2004 are presented in the following three sections, each with a corresponding table, located at the end of the chapter:

- Water Delivered to Long-term Water Supply Contractors in 2004, by Service Area (Table 9-3);
- Water Delivered in 2004, by Month (Table 9-4); and
- Total Amounts of Annual Table A Water and Water Conveyed, by Type, 1962-04 (Table 9-5).

### **Water Deliveries to Long-Term SWP Contractors**

Table 9-3 shows amounts of water delivered in 2004. The following information is arranged by column number.

#### **2004 Approved Table A Water Delivered.**

Columns 1 through 6 show a detailed breakdown of approved Table A water delivered to long-term water supply contractors in 2004.

**Turnback Pool Water.** Column 3 shows 17,240 acre-feet of turnback pool water was delivered to long-term water supply contractors in 2004.

**2003 Carryover Approved Table A Water Delivered During 2004.** Column 5 shows 439,660 acre-feet of water was carried over from 2003 for delivery in 2004. For several years, DWR has offered contractors the opportunity to carry over a portion of their approved Table A water for delivery in the current year to be delivered 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. The SWP contractors' long-term contracts and amendments state the criteria for carrying over approved Table A water from one year to the next.

**Total Table A Water Delivered.** Column 6 shows all approved Table A water delivered in 2004—a total of 2,599,536 acre-feet.

**2004 Water Bank Recoveries.** Column 7 shows 190,612 acre-feet of water bank recoveries in 2004.

**2004 Article 21 Water.** Column 8 shows 218,496 acre-feet of 2004 Article 21 water delivered to long-term water supply contractors in 2004 (includes 217,870 acre-feet of Article 21 water and 626 acre-feet of unscheduled water). Long-term water supply contractors who have not signed the Monterey Amendment receive unscheduled water.

**2004 Article 54 Flexible Storage Withdrawal Recoveries.** Column 9 shows 50,061 acre-feet of Article 54, Flexible Storage Withdrawal in 2004.

**Total SWP Water Delivered.** Column 11 shows 3,058,705 acre-feet of total SWP water delivered in 2004. This includes total approved Table A water, water bank recoveries, flexible storage withdrawal, and Article 21 and unscheduled water.

**Non-SWP Water Deliveries.** Column 12 includes deliveries of non-Project water to long term water contractors. Non-Project water is generally local, settlement, and permit water that a SWP contractor has a water right to, or water purchased from, exchanged with, or transferred from non-SWP agencies. In 2004, non-Project water deliveries totaled 63,780 acre-feet.

**Total Deliveries.** Column 13 shows total amounts of water delivered to long-term contractors. In 2004, the SWP delivered 3,122,485 acre-feet to 27 long-term contractors.

### **Water Delivered in 2004 by Month**

During 2004, the SWP provided water service to 53 agencies, including 27 SWP long-term water contractors. Those agencies and the amounts of water delivered to them by month are listed in Table 9-4, and are summarized below as SWP water and nonproject water.

**SWP Water.** SWP water as defined in the *long-term water supply contracts*, includes Article 21 water; carryover approved Table A water; current year approved Table A amounts; flexible storage water; transfer and exchange of approved Table A water; and turnback pools A and B. Detailed information concerning those conveyances is found under the *Miscellaneous Agreements with Long-Term SWP Contractors* section in this chapter.

### **Non-SWP Water**

In 2004, DWR used SWP facilities to convey non-SWP water for various agencies according to the terms of water rights and water transfer and exchange agreements. Detailed information concerning those conveyances is found under the *Miscellaneous Agreements with Other Agencies* section in this chapter.

**Floodwater.** Occasionally, during wet years, DWR accepts floodwater from the Kern River into the California Aqueduct through the Kern River-California Aqueduct Intertie under an agreement entitled *Agreement among the State of California, Kern County Water Agency, and the Kern River Interests for Diversions of Floodwaters through the Kern River-California Aqueduct Intertie*, dated November 18, 1975. In 2004, DWR did not accept any floodwater into the California Aqueduct.

**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 2004, 1,181,915 acre-feet of water in this category were delivered to the Feather River, South Bay, North Bay, and Southern California, and is summarized below.

*Feather River Area.* Ten non-Project agencies in the Feather River area received 1,174,672 acre-feet. Those agencies are

- Last Chance Creek Water District, 9,429 acre-feet
- Thermalito Irrigation District, 2,669 acre-feet
- South Feather Water and Power Agency, formerly Oroville-Wyandotte Irrigation District, 5,997 acre-feet
- Western Canal Water District, 325,934 acre-feet
- Joint Water Districts Board, 799,833 acre-feet
- Oswald Water District, 782 acre-feet
- Tudor Mutual Water Company, 3,683 acre-feet
- Garden Highway Mutual Water Company, 16,153 acre-feet
- Plumas Mutual Water Company, 7,355 acre-feet
- Dana Brothers, 2,837 acre-feet

*North Bay Area.* In the North Bay Area, 8,376 acre-feet of Solano permit and 10,801 acre-feet of water pursuant to the May 19, 2003 Settlement Agreement among DWR, SCWA, and the Cities of Fairfield Vacaville, and Benicia, were delivered.

*South Bay Area.* In the South Bay Area, a total of 6,763 acre-feet of local water was delivered to Alameda-Zone 7 and Alameda County. These two South Bay Aqueduct contractors hold water rights to runoff from Lake Del Valle watershed.

*Southern California.* In Southern California, 480 acre-feet of local runoff from the Houston Creek watershed were stored and delivered to Crestline under water rights held by DWR on Houston Creek. The authorized place of use is limited to Crestline.

### **Annual Table A Water and Water Delivered Since 1962**

Information about annual Table A water and water conveyed for the past 40 years is contained in Table 9-5. The following discussion of conveyed Table A water is arranged according to column numbers.

**Annual Table A.** Columns 1 through 7 of Table 9-5 show the amount of long-term contractors' annual Table A water by area for years 1962 through 2004 as specified in the Table A schedules of the long-term water supply contracts.

In some instances Table A schedules—projections of each contractor's need for water to 2035—have been amended to meet the needs of individual contractors. The amounts of annual Table A water each contractor may request for years 1962 through 2035 can be found in Table B-4 in Appendix B.

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

**Approved Table A Water.** Column 8 shows amounts of approved Table A water delivered each year from 1962 through 2004.

**Article 21 and Unscheduled Water.** Column 9 shows amounts of Article 21 water, as defined under *SWP Deliveries*, and unscheduled water delivered from 1962 through 2004.

Article 21 and unscheduled water is water in excess of that required to meet all demands for the year's approved Table A water and water to be stored in SWP reservoirs.

**Other Water.** Column 10 includes amounts of water classified as other water delivered in 2004, including nonproject water conveyed through SWP facilities and regulated delivery of local supply.

In 2004, a total of 385,088 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 2004, a total of 1,174,672 acre-feet in this category was delivered to agencies in the Feather River area.

**Recreation Water.** Column 12 shows water conveyed for recreational use or to provide water to improve water quality for fish and wildlife. In 2004, a total of 2,865 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. In 1996 and 1997, the Coastal Aqueduct was initially filled.

**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.

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.

**Table 9-3. Water Delivered to Long-Term Contractors through 2004 (Acre-Feet)**

Water Contractor or Agency	Table A Water Deliveries				Other SWP Water Deliveries				Total SWP Water (11)	Non-SWP Water (12)	Total (13)	
	2004 Table A Transfers, Exchanges, (1)	2004 Table A Transfers and Exchanges, (2)	2004 Turnback Pool (3)	Total 2004 Table A (4)	2003 Carryover (5)	Total Table A (6)	Water Bank Recoveries (7)	2004 Article 21 Water (8)				2004 Article 54 Flexible Withdrawal (9)
<b>Feather River Area</b>												
County of Butte	1,440			1,440		1,440					1,440	
Plumas County Flood Control and Water Conservation District	-			-		-					0	
City of Yuba City	1,434			1,434		1,434					1,434	
<b>North Bay Area</b>												
Napa County Flood Control and Water Conservation District	5,030	2,000	52	5,082	1,602	6,684		1,450	1,450	8,134	19,177	8,134
Solano County Water Agency	15,991			17,991	47	18,038		7,787	7,787	25,825		45,002
<b>South Bay Area</b>												
Alameda County Flood Control and Water Conservation District-Zone 7	39,898		214	39,898	11,466	51,364				51,364	2,133	53,497
Alameda County Water District	20,956		508	21,170	6,714	27,884				27,884	5,630	33,514
Santa Clara Valley Water District	52,867			53,375		53,375		2,983	2,983	56,358	3,100	59,458
<b>San Joaquin Valley Area</b>												
Castaic Lake Water Agency	2,158		46	2,158		2,158				2,158		2,158
County of Kings	5,850	7,002	291	5,896		5,896		3,157	3,157	9,053		9,053
Dudley Ridge Water District	33,493			40,786	2,185	42,971	4,979	7,393	12,372	55,343		55,343
Empire West Side Irrigation District	1,310			1,310		1,310		626	626	3,562		3,562
Kern County Water Agency	516,956		5,075	522,031	39,507	561,938	43,988	86,513	130,501	692,439	23,240	715,679
Oak Flat Water District	4,324		29	4,353	276	4,629				4,629		4,629
Tulare Lake Basin Water Storage District	54,725	7,850	489	63,064	5,638	68,702		15,299	15,299	84,001	10,020	94,021
<b>Central Coastal Area</b>												
San Luis Obispo County Flood Control and Water Conservation District	4,096			4,096		4,096		69	69	4,165		4,165
Santa Barbara County Flood Control and Water Conservation District	29,358		122	29,480		29,480				29,480		29,480
<b>Southern California</b>												
Antelope Valley-East Kern Water Agency	50,532			50,532	9,199	59,731				59,731		59,731
Castaic Lake Water Agency	44,200			44,200	33,785	79,985		1,618	1,618	81,603		81,603
Coachella Valley Water District	8,631		89	8,720	6,745	15,465				15,465		15,465
Crestline-Lake Arrowhead Water Agency	2,006		102	2,006		2,006				2,006	480	2,486
Desert Water Agency	9,966			10,068	11,122	21,190				21,190		21,190
Literock Creek Irrigation District				-		-				-		0
Pierropolitan Water District of Southern California	1,145,746		10,223	1,155,969	285,104	1,441,073	141,645	91,601	50,061	283,307		1,724,380
Mojave Water Agency	11,176			11,176		11,176				11,176		11,176
Palmdale Water District	10,349			10,349	1,613	12,162				12,162		12,162
San Bernardino Valley Municipal Water District	15,519	20,000		35,519	20,631	56,150				56,150		56,150
San Gabriel Valley Municipal Water District	11,482			11,482		11,482				11,482		11,482
San Geronimo Pass Water Agency	841			841		841				841		841
Ventura County Watershed Protection District	5,250			5,250		5,250				5,250		5,250
<b>Total</b>	<b>2,105,784</b>	<b>36,852</b>	<b>17,240</b>	<b>2,159,876</b>	<b>439,660</b>	<b>2,599,536</b>	<b>190,612</b>	<b>218,496</b>	<b>50,061</b>	<b>459,169</b>	<b>63,780</b>	<b>3,122,485</b>