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# MANAGEMENT OF THE CALIFORNIA STATE WATER PROJECT

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Storage District (Buena Vista) turnouts in Reaches 10A and 12E of the California Aqueduct. DWR conveyed 21,193 af of CVP water to Kern National Wildlife Refuge during 2008. (SWPAO #03317)

### Reclamation and San Joaquin Valley National Cemetery—U.S. Department of Veterans Affairs

A pending letter agreement among the U.S. Department of Veterans Affairs, DWR, and Reclamation provides for the conveyance of up to 850 af of CVP-approved water to Reach 2B of the California Aqueduct to the U.S. Department of Veterans Affairs' San Joaquin Valley National Cemetery. A total of 205 af was delivered to the National Cemetery from Reach 2B of the California Aqueduct in 2008 under this pending agreement. (SWPAO #03312)

### Westlands Water District

An agreement dated and executed August 8, 2008, between DWR and Westlands Water District (Westlands) provided for the introduction and conveyance of up to 20,000 af of local groundwater into the California Aqueduct within Westlands' service area. From June 16, 2008, through September 30, 2008, Westlands introduced 14,309 af of local water and DWR conveyed and delivered 14,024 af within the San Luis Canal portion (Reaches 4-7) of the California Aqueduct to Westlands' turnouts. Westlands made available, as mitigation to the SWP, 1,430 af of previously acquired water at O'Neill Forebay for allocation to SWP contractors. (SWPAO #08052)

## Water Deliveries

### Table A Deliveries

Each year, by October 1, the SWP water contractors submit initial requests for Table A deliveries allocated to them for use in the subsequent calendar year. Initial Table A allocation amounts for the coming

year are made by DWR in December. They are based on operations studies that assume 90 percent exceedence of historical water supply (where exceedence refers to the possibility that water supply in the coming year will be exceeded by the historical water supply), current reservoir storage, and total requests by the SWP water contractors. Forecasts for the year are updated as hydrologic conditions change. Table A amounts are increased or decreased depending on both actual and projected hydrologic conditions, though decreases are rare as the 90 percent exceedence criterion is fairly conservative.

On October 1, 2007, SWP water contractors submitted initial requests for 2008 totaling 4.17 million acre-feet (maf).

DWR approved 1.04 maf on November 22, 2007, resulting in initial Table A amounts of 25 percent of most SWP water contractor requests. DWR increased the 2008 Table A amounts to 1.46 maf, or 35 percent on February 1, 2008.

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

### 2008 SWP Deliveries

The SWP delivers water for a variety of beneficial uses. In addition to delivering Table A water to SWP water contractors, the SWP:

- conveys water to other public and local 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 2008, 2,838,128 af was delivered to 29 SWP water contractors and 20 other agencies, categorized as follows:

- 1,128,059 af of Table A water;
- 2,729 af of Article 21 water;
- 106,181 af of 2007 carryover water;
- 226,504 af recovered from water banks;
- 73,376 af of flexible storage withdrawal from Castaic Lake and Lake Perris;
- 2,778 af of SWP water for recreation and fish and wildlife;
- 1,129,766 af of non-SWP water delivered to satisfy settlement agreements and agreements with SWP water contractors for local water supplies;
- 89,708 af of 2008 Transfer/Dry Year Purchase Program; and
- 79,027 af delivered to satisfy agreements between the SWP and CVP.

Figure 9-1 shows amounts of water delivered to various locations during 2008.

Specific information about water deliveries made to SWP water contractors and other agencies during 2008, and historical deliveries from 1962 through 2008, 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 2008, by Service Area (Table 9-5);
- Total Amounts of Water Delivered in 2008, by Month (Table 9-6); and
- Total Amounts of Annual Table A Water and Water Conveyed, by Type, 1962–2008 (Table 9-7).

Please note that the water delivery figures listed are accurate at the time of this Bulletin 132 publication, but small volumes of water may be reclassified over time pursuant to long-term water supply contract provisions. If your research requires more

current data than was available at the time of publication, please consult the most recent edition of Bulletin 132 and/or contact DWR staff in the State Water Project Analysis Office.

## 2008 Water Deliveries to Long-term SWP Water Contractors

Table 9-5 shows amounts delivered in 2008. The following information is arranged by column number.

### *Table A Water Delivered*

Columns 1 through 5 show a detailed breakdown of Table A water delivered for SWP water contractors in 2008.

### *Turn-Back Pool Water*

Column 4 shows 3,202 af of Turn-Back Pool Water delivered to SWP water contractors in 2008.

### *2007 Carryover Table A Water Delivered During 2008*

Column 6 shows a total of 106,181 af was carried over from 2007 for delivery in 2008.

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 water contractors' long-term contracts and amendments state the criteria for carrying over Table A water from one year to the next under Articles 12(e), 14(b), and 56(c).

### *Total Table A Water Delivered*

Column 7 shows all Table A water delivered in 2008—a total of 1,234,240 af.

### *Article 21*

Column 8 shows 2,729 af of 2008 Article 21 water was delivered to SWP water contractors.

### **Other SWP Water**

Column 9 shows 81,312 af of Other SWP water. Other SWP water includes flexible withdrawal water from Castaic Lake and Lake Perris, and settlement water.

### **Total SWP Water Delivered**

Column 10 shows 1,318,281 af of total SWP water was delivered in 2008. This includes total Table A water, 2007 Table A carryover water, Article 21 water, and other SWP water consisting of settlement and flexible withdrawal water.

### **Non-SWP Water Deliveries**

Columns 11 and 12 include deliveries of non-SWP water to long-term water contractors. Column 11 shows 226,504 af of water bank recovery water. Column 12 shows 153,517 af of other non-SWP water. Other non-SWP water is local and permit water that a SWP water contractor has a water right to, dry year purchase water, or water purchased from, exchanged with, or transferred from non-SWP agencies. In 2008, non-SWP water deliveries totaled 380,021 af.

### **Total Deliveries**

Column 13 shows total amounts of water delivered to SWP water contractors. In 2008, the SWP delivered 1,698,302 af of water to 29 long-term contractors.

### **Water Delivered in 2008 by Month**

During 2008, the SWP provided water service to 49 agencies, including 29 SWP water contractors. Those agencies and the amounts of water delivered to them by month are listed in Table 9-6 and are summarized below as SWP water and non-SWP water.

### **SWP Water**

SWP water as defined in the long-term water supply contracts, includes Article 21 water, carryover Table A water, current year

Table A amounts, transfer and exchange of Table A water, and Turn-Back Pools A and B. Detailed information concerning those conveyances is found under the "Miscellaneous Agreements with Long-term SWP Water Contractors" section in this chapter.

### **Non-SWP Water**

In 2008, 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.

**Water Rights Water.** Water in this category is transported through SWP facilities to long-term SWP water contractors and other agencies according to terms of various settlement agreements. Some water simply passes through SWP transportation facilities; some is stored in SWP reservoirs for release later. In 2008, 1,129,766 af of water in this category was delivered to the Feather River, Delta, South Bay, North Bay, and Southern California areas, and is summarized below.

**Feather River Area.** Nine non-SWP agencies in the Feather River area received 1,086,744 af:

- Last Chance Creek Water District, 9,183 af;
- Thermalito Irrigation District, 2,014 af;
- South Feather Water and Power Agency, formerly Oroville-Wyandotte Irrigation District, 6,144 af;
- Western Canal Water District, 324,938 af;
- Joint Water Districts Board, 710,990 af;
- Oswald Water District, 1,454 af;
- Tudor Mutual Water Company, 3,278 af;
- Garden Highway Mutual Water Company, 17,923 af; and
- Plumas Mutual Water Company, 11,320 af.

**Delta.** In the Delta, 27,099 af of Byron-Bethany water, pursuant to the May 28, 2003, *Agreement Between the Department of Water Resources of the State of California and the Byron-Bethany Irrigation District Regarding the Diversion of Water from the Delta* was delivered.

**North Bay Area.** In the North Bay area, 8,049 af of Vallejo permit water and 7,936 af of water pursuant to the May 19, 2003, *Settlement Agreement among DWR, Solano County Water Agency, and the Cities of Fairfield, Vacaville, and Benicia* were delivered.

**South Bay Area.** In the South Bay area, a total of 3,671 af of local water was delivered to Alameda-Zone 7 and Alameda County. These two South Bay Aqueduct (SBA) SWP water contractors hold water rights to runoff from the Lake del Valle watershed.

**Southern California.** In Southern California, 547 af of local runoff from the Houston Creek watershed was 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 46 years is contained in Table 9-7. The following discussion of conveyed Table A water is arranged according to column numbers.

### Annual Table A Water

Columns 1 through 7 of Table 9-7 show the amount of SWP water contractors' annual Table A water by area for years 1962 through 2008 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 SWP water 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.

**Table A Water.** Column 8 shows amounts of Table A water delivered each year from 1962 through 2008. In 2008, a total of 1,234,240 af of Table A water was delivered.

### 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 2008. Article 21 and unscheduled water is water in excess of that required to meet all demands for the year's Table A water and water to be stored in SWP reservoirs. In 2008, a total of 2,729 af of Article 21 was delivered. No unscheduled water was delivered.

**Other Water.** Column 10 includes amounts of water classified as other water delivered in 2008, including non-SWP water conveyed through SWP facilities and regulated delivery of local supply. In 2008, a total of 488,818 af 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. Column 11 also includes Delta diversions. In 2008, a total of 1,086,744 af in this category was delivered to agencies in the Feather River area, and 22,819 af was delivered to Byron-Bethany in the Delta.

**Recreation Water.** Column 12 shows water conveyed for recreational use or to provide water to improve water quality for fish and

wildlife. In 2008, a total of 2,778 af 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 SBA, and was completed in 1979, when Lake Perris reached its maximum operating capacity of 127,000 af. 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 9-5 Water Delivered to Long-term Contractors through 2008, by Service Area (Acre-feet)<sup>a</sup>**

SWP Contractor	Table A Water Deliveries					SWP					Non-SWP		
	2008 Table A not Transferred, Exchanged, or Stored (1)	2008 Table A Transferred or Exchanged (2)	2008 Table A Stored (3)	2008 Turn-Back Pools (4)	Total Table A (5)	2007 Carryover (6)	Total (7)	2008 Article 21 (8)	Other SWP (9)	Total SWP Water (10)	Water Bank Recovery (11)	Other Non-SWP Water (12)	Total (13)
<b>Feather River</b>													
County of Butte	451	8,749			9,200		9,200			9,200			9,200
Plumas County FC&WCD	243				243		243			243			243
City of Yuba City	1,923				1,923		1,923			1,923			1,923
<b>North Bay</b>													
Napa County FC&WCD	3,636		21		3,657	7,363	11,020	1,219		12,239		1,053	13,292
Solano County WA	10,436				10,436	12,389	22,825	1,510	7,936	32,271		8,049	40,320
<b>South Bay</b>													
Alameda County FC&WCD, Zone 7	13,633				13,633	15,400	29,033			29,033	7,000	8,337	44,370
Alameda County WD	4,206		37		4,243	8,659	12,902			12,902	10,000	487	23,389
Santa Clara Valley WD	8,184		2,949	88	11,221	21,188	32,409			32,409	10,000	16,751	59,160
<b>San Joaquin Valley</b>													
Castaic Lake WA					0		0			0			-
County of Kings	3,187			8	3,195	541	3,736			3,736		100	3,836
Dudley Ridge WD	8,428	3,832		51	12,311	5,949	18,260			18,260		1,046	19,306
Empire West Side ID					0	915	915			915		32	947
Kern County WA	158,782	14,351		883	174,016	2,896	176,912			176,912	20,260	21,756	218,928
Oak Flat WD	1,919			5	1,924		1,924			1,924		61	1,985
Tulare Lake Basin WSD	29,447	2,855		85	32,387	281	32,668			32,668		1,236	33,904
<b>Central Coastal</b>													
San Luis Obispo County FC&WCD	3,402	5,110			8,512		8,512			8,512			8,512
Santa Barbara County FC&WCD	10,711	600		40	11,351	2,532	13,883			13,883			13,883
<b>Southern California</b>													
Antelope Valley-East Kern WA	31,082			125	31,207	10,381	41,588			41,588		6,170	47,758
Castaic Lake WA	18,710				18,710	12,146	30,856			30,856		12,022	42,878
Coachella Valley WD	42,385			107	42,492		42,492			42,492		4,299	46,791
Crestline-Lake Arrowhead WA	159	1,000			1,159	689	1,848			1,848		547	2,395
Desert WA	17,500			44	17,544		17,544			17,544		8,884	26,428
Littlerock Creek ID		805			805		805			805		25	830
Metropolitan WDSC	644,304		1,689		645,993		645,993	73,376		719,369	170,749	59,076	957,689
Mojave WA	16,793	1,000		19	17,793	108	17,901			17,901	8,495		17,901
Palmdale WD	4,226				4,245		4,245			4,245		1,261	5,506
San Bernardino Valley MWD	26,151	4,411			30,562	4,444	35,006			35,006		2,139	37,145
San Gabriel Valley MWD	6,580	3,500			10,080		10,080			10,080			10,080
San Geronimo Pass WA	4,419	1,000			5,419	300	5,719			5,719		186	5,905
Ventura County FCD	3,798				3,798		3,798			3,798			3,798
<b>Totals</b>	<b>1,074,695</b>	<b>47,213</b>	<b>2,949</b>	<b>3,202</b>	<b>1,128,059</b>	<b>106,181</b>	<b>1,234,240</b>	<b>2,729</b>	<b>81,312</b>	<b>1,316,281</b>	<b>226,504</b>	<b>153,517</b>	<b>1,698,302</b>

<sup>a</sup> Please note that the water delivery figures listed are accurate at the time of this Bulletin 132 publication, but small volumes of water may be reclassified over time pursuant to long-term water supply contract provisions. If your research requires more current data than was available at the time of publication, please consult the most recent publication of Bulletin 132 available and/or contact DWR staff in the State Water Project Analysis Office.