



BULLETIN 132-07 | DECEMBER 2008

MANAGEMENT OF THE  
**CALIFORNIA**  
STATE WATER  
PROJECT

ARNOLD SCHWARZENEGGER  
*Governor, State of California*

MIKE CHRISMAN  
*Secretary for Natural Resources  
The Natural Resources Agency*

LESTER A. SNOW  
*Director, Department of Water Resources*

**Table 1-6. Long-Term Water Supply Contracting Agencies, by Area, as of December 31, 2006**

Contracting Agency	Cumulative Deliveries (af) <sup>a</sup>	Annual Table A (af)	Payments (Dollars)	Gross Area (Acres)	Assessed Valuation (Dollars) <sup>b</sup>	Estimated Population
<b>Upper Feather River Area</b>						
City of Yuba City	22,500	9,600	4,019,270	13,944	4,184,854,084	62,083
County of Butte	13,386	1,200	1,147,441	1,069,000	16,733,963,822	214,119
Plumas County Flood Control and WCD	10,472	324	1,479,849	1,676,056 <sup>c</sup>	2,060,744,342	21,200
<i>Subtotal</i>	<i>46,358</i>	<i>11,124</i>	<i>6,646,560</i>	<i>2,759,000</i>	<i>22,979,562,248</i>	<i>297,402</i>
<b>North Bay Area</b>						
Napa County Flood Control and WCD	223,139	22,550	73,273,727	510,010	23,055,694,643	134,444
Solano County Water Agency	579,662	47,306	100,866,680	537,600	47,700,000,000	424,823
<i>Subtotal</i>	<i>802,801</i>	<i>69,856</i>	<i>174,140,406</i>	<i>1,047,610</i>	<i>70,755,694,643</i>	<i>559,267</i>
<b>South Bay Area</b>						
Alameda County Flood Control and WCD–Zone 7	1,189,554	80,619	132,011,878	275,900	33,600,000,000	196,659
Alameda County WD	1,081,007	42,000	89,555,801	67,057	40,416,633,287	324,800
Santa Clara Valley WD	3,475,478	100,000	281,931,037	849,000	147,074,863,200	1,715,374
<i>Subtotal</i>	<i>5,746,039</i>	<i>222,619</i>	<i>503,498,716</i>	<i>1,191,957</i>	<i>221,091,496,487</i>	<i>2,236,833</i>
<b>San Joaquin Valley Area</b>						
County of Kings	121,932	9,305	5,077,390	893,300	7,300,545,655	147,729
Castaic Lake Water Agency	456,397	12,700	—	8,700	4,532,936	0
Dudley Ridge WD	2,070,260	57,343	67,939,742	37,600	46,300,000	36
Empire West Side Irrigation District	109,771	3,000	3,352,482	7,400	<sup>d</sup>	11
Kern County Water Agency	31,724,103	998,730	1,526,898,168	5,161,000	64,149,863,242	739,400
Oak Flat WD	192,374	5,700	5,409,174	4,500	<sup>d</sup>	10
Tulare Lake Basin Water Storage District	4,494,952	95,922	136,375,455	189,519	152,288,305	23
<i>Subtotal</i>	<i>39,169,789</i>	<i>1,182,700</i>	<i>1,745,052,409</i>	<i>6,302,019</i>	<i>71,653,530,138</i>	<i>887,209</i>
<b>Central Coastal Area</b>						
San Luis Obispo County Flood Control and WCD	38,112	25,000	58,566,808	2,122,240	37,363,525,861	260,727
Santa Barbara County Flood Control and WCD	220,569	45,486	365,150,098	1,775,296	49,196,921,210	421,625
<i>Subtotal</i>	<i>258,681</i>	<i>70,486</i>	<i>423,716,906</i>	<i>3,897,536</i>	<i>86,560,447,071</i>	<i>682,352</i>
<b>Southern California Area</b>						
Antelope Valley–East Kern Water Agency	1,561,466	141,400	373,274,468	1,525,547	25,685,000,000	365,000
Castaic Lake Water Agency <sup>e</sup>	651,790	82,500	214,382,841	124,800	27,070,976,711	249,600
Coachella Valley WD	847,523	121,100	207,049,279	639,857	57,138,070,411	288,707
Crestline–Lake Arrowhead Water Agency	45,936	5,800	21,098,469	55,100	1,500,527,807	25,000
Desert Water Agency	1,059,525	50,000	203,034,614	209,760	8,935,190,300	70,800
Littlerock Creek Irrigation District	18,995	2,300	5,401,699	10,000	438,155,825	2,900
Metropolitan WD of Southern California	27,511,299	1,911,500	7,710,003,586	3,313,960 <sup>f</sup>	1,822,528,845,729	18,453,602
Mojave Water Agency	248,642	75,800	188,683,962	3,136,000	34,764,740,354	403,150
Palmdale WD	191,730	21,300	55,107,970	119,680	1,470,701,596	109,845
San Bernardino Valley Municipal WD	581,355	102,600	407,017,951	224,000	28,115,559,357	600,000
San Gabriel Valley Municipal WD	325,107	28,800	117,421,305	18,297	11,720,110,333	210,145
San Geronio Pass Water Agency	5,927	7,000	72,637,006	140,800	5,685,364,116	65,500
Ventura County Flood Control District	42,805	20,000	46,271,942	308,252	30,600,000,000	460,000
<i>Subtotal</i>	<i>33,092,100</i>	<i>2,570,100</i>	<i>9,621,385,090</i>	<i>9,826,053</i>	<i>2,055,653,242,539</i>	<i>21,304,249</i>
<b>Total</b>	<b>79,115,768</b>	<b>4,126,885</b>	<b>12,474,440,087</b>	<b>25,024,175<sup>g</sup></b>	<b>2,528,693,973,126</b>	<b>25,967,312</b>

<sup>a</sup> All water delivered to long-term SWP contractors, including carryover, Article 21, surplus, unscheduled, exchange, permit, purchased, local, and non-SWP water.

<sup>b</sup> Statutes of 1978, Chapter 1207, added Section 135 to the Revenue and Taxation Code, requiring assessment at 100% of full value for the 1981–1982 fiscal year and fiscal years thereafter.

<sup>c</sup> Total of all Plumas County Flood Control and Water Conservation District, including Last Chance Creek Water District.

<sup>d</sup> Assessed valuation not available on an agency area breakdown.

<sup>e</sup> District includes land in the San Joaquin Valley Area formerly known as Devil's Den Water District.

<sup>f</sup> Total for Metropolitan, including Calleguas Municipal Water District, which is common to Metropolitan and Ventura County Flood Control District.

<sup>g</sup> Includes duplicate values. Some areas that are within two or more agencies are included in each agency's total.

water to the Kern National Wildlife Refuge for USFWS. Under the terms of this cooperative agreement, dated September 28, 2004, up to 30,500 af of CVP water would be delivered from Check 2, the end of Reach 7, to the Buena Vista Turnout BV-1B, Reach 10A of the California Aqueduct, from May 1, 2002, to May 31, 2009. DWR conveyed 21,282 af of CVP water to Kern National Wildlife Refuge in 2006. (SWPAO #03317)

## 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 criteria is fairly conservative.

On October 1, 2005, SWP water contractors submitted initial requests for 2006 totalling 4.17 maf.

DWR approved deliveries of 2.27 maf on November 22, 2005, resulting in initial Table A amounts of 55 percent of most SWP water contractor requests. DWR

increased the 2006 Table A amounts to 2.68 maf, or 65 percent, on December 14, 2005. As water conditions improved, Table A amounts were increased to 2.89 maf (70 percent) on January 17, 2006; 3.30 maf (80 percent) on March 23, 2006; and 4.13 maf (100 percent) on April 18, 2006.

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>.

### 2006 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 2006, 4,828,580 af of water was delivered to 27 SWP water contractors and 25 other agencies, categorized as follows:

- 2,791,111 af of Table A water;
- 621,339 af of Article 21 water;
- 182,240 af of 2005 carryover water;
- 1,926 af of SWP water for recreation and fish and wildlife;
- 1,134,617 af of nonproject water delivered to satisfy settlement agreements and agreements with SWP water contractors for local water supplies; and
- 97,347 af of water delivered to satisfy agreements between the SWP and CVP.

Figure 9-1 shows amounts of water delivered to various locations during 2006.

Specific information about water deliveries made to SWP water contractors and other agencies during 2006, and historical deliveries from 1962 through 2006, 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 2006, by Service Area (Table 9-3);
- Water Delivered in 2006, by Month (Table 9-4); and
- Total Amounts of Annual Table A Water and Water Conveyed, by Type, 1962–2006 (Table 9-5).

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 the DWR staff in the State Water Project Analysis Office.

### **2006 Water Deliveries to Long-Term SWP Water Contractors**

Table 9-3 shows amounts of water delivered in 2006. The following information is arranged by column number.

#### ***Table A Water Delivered***

Columns 1 through 6 show a detailed breakdown of Table A water delivered for SWP water contractors in 2006.

#### ***Turn-Back Pool Water***

Column 4 shows 34,260 af of Turn-Back Pool water was delivered to SWP water contractors in 2006.

#### ***2005 Carryover Table A Water Delivered During 2006***

Column 6 shows a total of 182,240 af of water was carried over from 2005 for delivery in 2006.

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 12e, 14b, and 56c.

#### ***Total Table A Water Delivered***

Column 7 shows all Table A water delivered in 2006—a total of 2,973,351 af.

#### ***Article 21 and Unscheduled Water***

Column 8 shows 621,339 af of 2006 Article 21 water was delivered to SWP water contractors (which includes 620,215 af of Article 21 and 1,124 af of unscheduled water to Empire). SWP water contractors who have not signed the Monterey Amendments receive unscheduled water.

#### ***Total SWP Water Delivered***

Column 9 shows 3,594,690 af of total SWP water was delivered in 2006. This includes total Table A water, 2005 Table A carryover water, and Article 21 water.

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

Column 10 includes deliveries of non-SWP water to long-term water contractors.

Non-SWP water is generally local, settlement, and permit water that an SWP water contractor has a water right to, or water purchased from, exchanged with, or transferred from non-SWP agencies. In 2006, non-SWP water deliveries totaled 96,878 af.

### **Total Deliveries**

Column 11 shows total amounts of water delivered to SWP water contractors. In 2006, the SWP delivered 3,691,568 af of water to 27 long-term contractors.

### **Water Delivered in 2006 by Month**

During 2006, the SWP provided water service to 54 agencies, including 27 SWP 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 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.

### **2006 Non-SWP Water**

In 2006, 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 wetter-than-normal years, DWR will accept floodwater from the Kern River into the California Aqueduct through the Kern River-California Aqueduct Intertie under an *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 2006, DWR accepted 101,740 af of floodwater into the California Aqueduct.

### **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 portion is stored in SWP reservoirs for release later. In 2006, 1,134,617 af of water in this category was delivered to the Feather River, 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 1,094,944 af:

- Last Chance Creek Water District, 8,903 af;
- Thermalito Irrigation District, 1,934 af;
- South Feather Water and Power Agency, formerly Oroville-Wyandotte Irrigation District, 5,629 af;
- Western Canal Water District, 299,626 af;
- Joint Water Districts Board, 757,845 af;

- Oswald Water District, 598 af;
- Tudor Mutual Water Company, 3,300 af;
- Garden Highway Mutual Water Company, 13,200 af; and
- Plumas Mutual Water Company, 3,909 af.

**North Bay Area.** In the North Bay Area, 944 af of Vallejo permit water and 3,917 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*, was delivered.

**South Bay Area.** In the South Bay Area, a total of 16,699 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, 506 af of local runoff from the Houston Creek watershed was stored and delivered to Crestline-Lake Arrowhead Water Agency (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 44 years is contained in Table 9-5. The following discussion of conveyed Table A water is arranged according to column numbers.

### ***Annual Table A Water***

Columns 1 through 7 of Table 9-5 show the amount of SWP water contractors' annual Table A water by area for years

1962 through 2006, 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 2006. In 2006, a total of 2,973,351 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 2006. 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 2006, a total of 621,339 af of Article 21 and unscheduled water was delivered.

### ***Other Water***

Column 10 includes amounts of water classified as other water delivered in 2006, including non-SWP water conveyed through SWP facilities and regulated delivery of local supply. In 2006, a total of 119,403 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 2006, a total of 1,094,944 af in this category was delivered to agencies in the Feather River area, and 17,607 af was delivered to Byron-Bethany Irrigation District (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 2006, a total of 1,936 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 9-3. Water Delivered to Long-Term Contractors in 2006 (Acre-Feet)**

SWP Contractor	Table A Water Deliveries							2006 Article 21 (8)	Total SWP Water (9)	Non-SWP Water (10)	Total (11)
	2006 Table A not Transferred, Exchanged, or Stored (1)	2006 Table A Transferred or Exchanged (2)	2006 Table A Stored (3)	2006 Turn-Back Pool (4)	Total 2006 Table A (5)	2005 Carryover (6)	Total Table A (7)				
<b>Feather River</b>											
County of Butte	468				468		468		468		468
Plumas County FC&WCD											
City of Yuba City	4,148				4,148		4,148	1,194	5,342		5,342
<b>North Bay</b>											
Napa County FC&WCD	7,317				7,317	172	7,489	300	7,789		7,789
Solano County WA	12,070				12,070	390	12,460	18,195	30,655	4,861	35,516
<b>South Bay</b>											
Alameda County FC&WCD, Zone 7	35,241		15,544	491	51,276	2,252	53,528		53,528	10,381	63,909
Alameda County WD	14,549		25,021	256	39,826	1,331	41,157	1,922	43,079	7,318	50,397
Santa Clara Valley WD	47,344				47,344	524	47,868	26,769	74,637	53,573	128,210
<b>San Joaquin Valley</b>											
Castaic Lake WA	646		18,550		19,196	1,450	20,646	2,089	22,735		22,735
County of Kings	8,991			173	9,164		9,164	366	9,530		9,530
Dudley Ridge WD	45,990	7,760	1,593	1,068	56,411		56,411	18,429	74,840		74,840
Empire West Side ID	1,500				1,500	658	2,158	1,124	3,282		3,282
Kern County WA	951,113			18,610	969,723	5,418	975,141	247,914	1,223,055	20,239	1,243,294
Oak Flat WD	4,118			107	4,225	17	4,242		4,242		4,242
Tulare Lake Basin WSD	39,361	9,000		1,787	50,148		50,148	58,059	108,207		108,207
<b>Central Coastal</b>											
San Luis Obispo County FC&WCD	3,382				3,382		3,382	827	4,209		4,209
Santa Barbara County FC&WCD	19,255				19,255		19,255	4,020	23,275		23,275
<b>Southern California</b>											
Antelope Valley-East Kern WA	76,623				76,623	3,761	80,384		80,384		80,384
Castaic Lake WA	37,562				37,562	2,455	40,017		40,017		40,017
Coachella Valley WD	121,100				121,100		121,100		121,100		121,100
Crestline-Lake Arrowhead WA	641				641		641		641	506	1,147
Desert WA	50,000				50,000		50,000		50,000		50,000
Littlerock Creek ID											
Metropolitan WDSC	1,093,033		10,505	11,638	1,115,176	158,532	1,273,708	238,478	1,512,186		1,512,186
Mojave WA	32,496				32,496	1,518	34,014		34,014		34,014
Palmdale WD	10,374			130	10,504	335	10,839	1,653	12,492		12,492
San Bernardino Valley MWD	11,904	20,000			31,904	3,427	35,331		35,331		35,331
San Gabriel Valley MWD	13,524				13,524		13,524		13,524		13,524
San Geronio Pass WA	4,278				4,278		4,278		4,278		4,278
Ventura County FCD	1,850				1,850		1,850		1,850		1,850
<b>Totals</b>	<b>2,648,878</b>	<b>36,760</b>	<b>71,213</b>	<b>34,260</b>	<b>2,791,111</b>	<b>182,240</b>	<b>2,973,351</b>	<b>621,339</b>	<b>3,594,690</b>	<b>96,878</b>	<b>3,691,568</b>



**Table 9-4. Total Amounts of Water Delivered in 2006, by Month (Acre-Feet)**

Contracting Agency and Type of Service	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2006 Total Deliveries
<b>CENTRAL COASTAL AREA</b>													
<i>SWP Agencies</i>													
San Luis Obispo County Flood Control and Water Conservation District													
Table A	181	166	202	207	366	357	332	311	370	403	259	228	3,382
Article 21	184	224	120	84	0	0	0	0	0	0	0	215	827
Agency Total	365	390	322	291	366	357	332	311	370	403	259	443	4,209
Santa Barbara County Flood Control and Water Conservation District													
Table A	0	0	0	1,156	1,747	2,686	3,147	3,085	2,745	2,312	1,046	1,331	19,255
Article 21	1,298	1,495	1,227	0	0	0	0	0	0	0	0	0	4,020
Agency Total	1,298	1,495	1,227	1,156	1,747	2,686	3,147	3,085	2,745	2,312	1,046	1,331	23,275
SWP	1,663	1,885	1,549	1,447	2,113	3,043	3,479	3,396	3,115	2,715	1,305	1,774	27,484
Non-SWP	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Central Coastal Area Total</b>	<b>1,663</b>	<b>1,885</b>	<b>1,549</b>	<b>1,447</b>	<b>2,113</b>	<b>3,043</b>	<b>3,479</b>	<b>3,396</b>	<b>3,115</b>	<b>2,715</b>	<b>1,305</b>	<b>1,774</b>	<b>27,484</b>
<b>SOUTHERN CALIFORNIA AREA</b>													
<i>SWP Agencies</i>													
Antelope Valley-East Kern Water Agency													
Table A	0	3,967	3,855	5,372	8,599	10,088	10,790	10,034	8,362	5,708	5,530	4,318	76,623
MWA's Table A through AVEK	0	35	0	67	0	135	134	176	126	68	50	23	814
Article 56(c) extended carryover	3,761	0	0	0	0	0	0	0	0	0	0	0	3,761
MWA's Article 56(c) carryover through AVEK	27	0	0	0	0	0	0	0	0	0	0	0	27
Agency Total	3,788	4,002	3,855	5,439	8,599	10,223	10,924	10,210	8,488	5,776	5,580	4,341	81,225
Castaic Lake Water Agency													
Table A	0	2,026	1,296	1,368	3,657	4,493	6,047	4,686	4,611	3,581	3,301	2,496	37,562
Article 56(c) extended carryover	2,060	0	0	0	0	0	0	0	0	0	0	0	2,060
Article 56(c) extended carryover flexible storage payback	395	0	0	0	0	0	0	0	0	0	0	0	395
Agency Total	2,455	2,026	1,296	1,368	3,657	4,493	6,047	4,686	4,611	3,581	3,301	2,496	40,017
Coachella Valley Water District													
Table A	0	0	0	0	0	0	0	28,713	52,424	13,321	13,321	13,321	121,100
Crestline-Lake Arrowhead Water Agency													
Table A	0	0	0	0	0	0	98	141	145	104	74	79	641
Local	64	74	64	32	82	111	79	0	0	0	0	0	506
Agency Total	64	74	64	32	82	111	177	141	145	104	74	79	1,147