PROJECT FUNDING

SWP water deliveries go to 29 contracting agencies that have contracts for annual deliveries of water. Through these contracts, the public agencies are repaying the $1.75 billion general obligation bonds, plus interest, and additional bonds issued for added facilities. SWP contractors also pay for operations and maintenance costs, such as labor and equipment, and environmental projects that help mitigate any impacts from the Project’s water operations. The contractors have made cumulative payments totaling more than $9 billion.

State Water Project Contractor Service Areas

1. Plumas County Flood Control & Water Conservation District
2. City of Bakersfield
3. City of Visalia
4. Napa County Flood Control & Water Conservation District
5. Solano County Water Agency
6. Alameda County Water District
7. Alameda County FCWCD: Zone 7
8. Oak Flat Water District
9. Santa Clara Valley Water District
10. County of Kings
11. Empire West Side Irrigation District
12. Tulare Lake Basin Water Storage District
13. Kern County Water Agency
14. Delano Irrigation District
15. Madera County Water Agency
16. Maricopa County Water Agency
17. Santa Barbara County Flood Control & Water Conservation District
18. Ventura County Flood Control District
19. San Gabriel Valley Municipal Water District
20. San Gorgonio Pass Water Agency
21. Desert Water Agency
22. Coachella Valley Water District
23. Antelope Valley-East Kern Water Agency
24. Mojave Water Agency
25. Castaic Lake Water Agency (Evel’s Dams)
26. Castaic Creek Irrigation District
27. Palmdale Water District
28. Castaic-Lake Arrowhead Water Agency
29. San Bernardino Valley Municipal Water District
30. San Gorgonio Pass Water Agency
31. Desert Water Agency
32. Coachella Valley Water District

HISTORY

California’s history, landscape and economy have been shaped by water. To address nature’s water imbalance and allow for growth, water has to be transferred from where it is plentiful to where it is needed. Californians provided the solution with passage of the 1960 California Water Resources Development Bond Act, which authorized $1.75 billion for construction of the SWP.
The project was constructed in stages from north to south. Oroville Dam, built from 1961 to 1967, is the tallest dam in the United States (770 feet) and one of the main sources of hydropower on the project. Construction of the Delta pumping facilities, South Bay facilities, San Luis Reservoir (built by the U.S. Bureau of Reclamation and operated by DWR) and the California Aqueduct was completed in the late 1960s. The next phase delivered water over the Tehachapi Mountains at Edmonston Pumping Plant. Edmonston was completed in 1973 and has the highest lift per volume in the world with a single lift of 1,926 vertical feet and a maximum volume of 4,480 cubic feet per second. The newest facility of the SWP – the Cherry Valley Pumping Station on the East Branch Extension – was completed in 2003.

The SWP has been recognized by the American Society of Civil Engineers as one of the outstanding engineering achievements of the 20th Century.

**HYDROELECTRIC POWER**

Project hydroelectric plants help keep water delivery rates to SWP contractors affordable by producing much of the electricity needed to pump water. Costs are also defrayed by pumping during off-peak hours when electricity is less expensive and generating power for sale during periods of high demand when power is more expensive.

**SWP FACTS and FIGURES**

**GENERAL INFORMATION**

- Total Length of Canals and Pipelines: 701 miles (1,128 kilometers)
- Number of Storage Facilities: 34
- Lakes/Reservoirs (primary): 21
- Total Reservoir Storage: 5.8 million acre-feet (7.2 cubic kilometers)
- Largest Reservoir Capacity: 3.5 million acre-feet (4.3 cubic kilometers)
- Largest Reservoir Surface Area: 15.810 acres (6,398 hectares)
- Longest Reservoir Shoreline: 167 miles (269 kilometers)
- Highest Dam Structure: 770 feet (235 meters)
- Largest Dam Structure: 80 million cubic yards (61 million cubic meters)
- Longest Dam Crest: 42,000 feet (12,802 meters)
- Highest Dam Crest Elevation: 5,785 feet (1,763 meters)

**CALIFORNIA AQUEDUCT**

- Starting Maximum Pumping/Canal Volumes: 10,670 CFS/10,300 CFS
- Highest Pump Lift/Volume: 1,926 feet (587 meters) / 4,480 CFS
- Largest Pumping Capacity: 15,450 CFS
- Largest Canal Capacity: 13,100 CFS
- Widest Part of Canal: 110 feet (33.5 meters)
- Deepest Part of Canal: 32.8 feet (10 meters)

**HYDROELECTRIC POWER GENERATION**

- Highest Single Year Generation: 8.6 billion kWh
- Average System Generation: 6.67 billion kWh
- Average System Purchases: 2.66 billion kWh
- Average Pumping Load: 6.51 billion kWh

*Average based on 1988-2007*

**WATER DELIVERIES**

- Average Yearly Delivery (1990-2009): 2.4 million Acre-Feet
- Highest Delivery (2006): 3.7 million Acre-Feet
- Lowest Delivery (1977) (after full deliveries were started in 1973): 0.97 million Acre-Feet
PROJECT FUNDING

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State Water Project Contractor Service Areas

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2 County of Butte
3 City of Yuba City
4 Nevada County Flood Control & Water Conservation District
5 Solano County Water Agency
6 Alameda County Water District
7 Alameda County FCWCD: Zone 7
8 Oak Flat Water District
9 Santa Clara Valley Water District
10 County of Kings
11 Empire West Side Irrigation District
12 Tubbs Lake Basin Water Storage District
13 Kern County Water Agency
14 Dudley Ridge Water District
15 San Luis Obispo County Flood Control & Water Conservation District
16 Santa Barbara County Flood Control & Water Conservation District
17 Ventura County Flood Control District
18 San Gabriel Valley Municipal Water District
19 The Metropolitan Water District of Southern California
20 Antelope Valley-East Kern Water Agency
21 Mojave Water Agency
22 Castaic Lake Water Agency (Etna’s Dam)
23 Littlerock Creek Irrigation District
24 Palmdale Water District
25 Cachuma Lake Arrowhead Water Agency
26 San Bernardino Valley Municipal Water District
27 San Gorgonio Pass Water Agency
28 Desert Water Agency
29 Coachella Valley Water District

Urban-based
Agriculturally-based