

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

February 4, 1993

To: Board of Directors (Water Problems Committee--Information)
From: General Manager
Subject: Water Supply Update

Report

This water supply update reflects conditions as of February 4, 1993. Attached is Water Supply Update No. 11, which graphically summarizes and supplements the information below.

Colorado River Supplies

Metropolitan has received approval from the Bureau of Reclamation to divert Colorado River water (CRW) at full aqueduct capacity in calendar year (CY) 1993. It is projected that 1,265,000 acre-feet of CRW will be diverted. For the month of January, it is estimated that 96,000 acre-feet were diverted. Should use of Colorado River water in the states of Arizona, California, and Nevada exceed 7.5 million acre-feet (MAF) in 1993, compensation for overuse would be required by the end of 1996. The need for such compensation will be eliminated if (1) a surplus is declared, or (2) a flood control release is required.

State Water Project Supplies

Metropolitan's allocation of State project water for CY 1993 is currently 40 percent of our request, or 829,000 acre-feet, including delivery to Metropolitan of Desert Water Agency and Coachella Valley Water District allocations. The initial announcement by the Department of Water Resources (DWR) on December 1, 1992 was for 10 percent of requests. This was increased on January 13, 1993 to 25 percent, and again on January 26, 1993 to 40 percent. These increases resulted from above-average rain and snowfall in the State project watershed. Further increases may occur should above-average precipitation continue. In addition, it is expected that DWR will approve Metropolitan's request to carry over 191,000 acre-feet of 1992 entitlement water for use in 1993.

This brings our current total expected supply to be delivered via State project facilities in CY 1993 to 1,020,000 acre-feet. At this time, no additional water has been purchased by Metropolitan to augment 1993 supplies. For the month of January, Metropolitan took delivery of 35,000 acre-feet of State project water. Because it is desirable to move the 1992 carryover water out of San Luis Reservoir to prevent its potential loss to spilling, all State project water delivered since January 1 is 1992 carryover water.

Significant increases in State project reservoir storage and pumping were possible in January due to the high levels of precipitation. January precipitation for the Northern Sierra eight-station index was 16.0 inches or 180 percent of average. This brought the season-to-date total to 36.0 inches or 133 percent of average. In addition, snowpack water content in the State project watershed was at 170 percent of average as of February 1, 1993. As a result, Lake Oroville gained 600,000 acre-feet during the month, with 297,000 acre-feet of this gain occurring in one week. A maximum daily inflow of 68,000 acre-feet occurred on January 22, 1993. As of January 31, 1993, the storage in Lake Oroville was 2,002,000 acre-feet.

Delta outflow was above average throughout most of January, reaching a daily high of 74,000 cubic feet per second on January 24, 1993. These high flows allowed for increased pumping at Harvey O. Banks Delta Pumping Plant. With the recently completed plant expansion from 7 pumps to 11 pumps, Banks pumping averaged 15,000 acre-feet per day for January with a maximum daily flow of 21,000 acre-feet on January 20, 1993. This represents a single-day record for pumping at the Banks facility. The increased pumping at Banks allowed for a 419,000 acre-feet gain in the State's share of San Luis Reservoir during the month. On January 31, 1993, the State share of San Luis Reservoir was 798,000 acre-feet.

The high rate of gain in San Luis Reservoir is expected to decrease through the first weeks of February unless above-average precipitation continues. If precipitation does continue, there is a possibility that the State share of San Luis Reservoir could fill. Should that occur, there is a potential for loss of any of Metropolitan's 1992 carryover water remaining in San Luis Reservoir at the time it becomes full. This loss could be avoided through a combination of (1) the lake not filling as a result of reduced pumping; (2) a storage agreement allowing the State to temporarily store water in the federal portion of San Luis

Reservoir; or (3) Metropolitan placing a portion of its 1992 carryover water into groundwater storage as provided for by Semitropic/Metropolitan Storage/Exchange Program which was approved by your Board in December 1992. However, current negotiations with DWR and Kern County Water Agency for a new point of delivery must be complete before Metropolitan can store water in this program. At present, it is not anticipated that the State or Federal share of San Luis will fill. Staff will continually monitor the operations at Banks and the storage in San Luis Reservoir, and will keep your Board informed of any new developments.

1993 Water Supply Balance

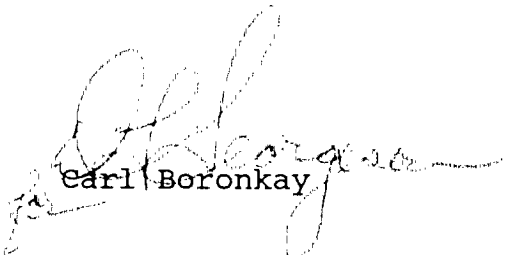
The attached table summarizes the current water supply balance for CY 1993. The projected demands are based on adjusted information received from our member agencies. These figures are based on the assumption that Stage I of the Incremental Interruption and Conservation Plan is now in effect for the remainder of CY 1993. Currently, there is a potential 335,000 acre-foot balance in supplies estimated to be available to Metropolitan in 1993. It is anticipated that a portion of this water will be allocated for cyclic groundwater storage, member agency exchange purposes, as well as possible implementation of the Semitropic and/or other programs.

Board Committee Assignments

This letter is an information item to the Water Problems Committee because of its authority with regard to policies, sources, and means of importing water required by the District; and policies regarding water conservation, reclamation, reuse, and underground storage of water and the use thereof, pursuant to Administrative Code, Section 2481 (a) and (i).

Recommendation

For information only.


Carl Boronkay

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Attachment

CY 1993 WATER SUPPLY AND BALANCE

CY 1993 Supply

Colorado River Aqueduct	1,265,000 AF
State Water Project (1)	1,020,000 AF
System Losses	-50,000 AF
 Total Supply	 2,235,000 AF

CY 1993 Demand

Projected Use (2) (3) (4)	1,900,000 AF
 Projected 1993 Balance (5)	 335,000 AF

Notes:

- (1) -- Includes 191,000 acre-feet of 1992 carryover water and 1993 DWCV entitlements.
- (2) -- Stage I effective January 1 to December 31, 1993 and assumes 10 percent conservation.
- (3) -- Includes Discretionary Pool Deliveries and purchases from cyclic storage.
- (4) -- Projections based on adjusted estimates obtained from the member agencies.
- (5) -- Balance likely to be used by a combination of:
 - an increase in cyclic groundwater storage deliveries;
 - short-term exchange agreements with the member agencies;
 - potential delivery to Desert Water Agency and Coachella Valley Water District exchange program;
 - continuation of seasonal storage service deliveries; and
 - implementation of Semitropic and/or other programs.