

DEC 13 1994

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA EXECUTIVE SECRETARY

December 9, 1994

To: Board of Directors (Water Problems Committee -- Information)

From: General Manager

Subject: Water Supply Update

Report

This water supply update reflects current conditions. Attached is Water Supply Update No. 3, which graphically summarizes and supplements the information below.

Colorado River Supply

Metropolitan has received approval from the Bureau of Reclamation (Reclamation) to divert Colorado River Water (CRW) at full aqueduct capacity in calendar year (CY) 1994. It is projected that about 1.3 million acre-feet of CRW will be diverted. Reclamation's latest forecast indicates that the total mainstem CRW use by Lower Division States will be below the 7.5 million acre-foot limit established in the 1994 Annual Operating Plan (with consideration for unmeasured return flows).

Metropolitan has submitted a request to use 1.3 million acre-feet of CRW in CY 1995. As in recent years, it is expected that California will be permitted to utilize apportionments that go unused by Arizona and Nevada. The CY 1995 annual operating plan for the Colorado River System reservoirs has not yet been approved and transmitted to the Governors of the Colorado River Basin States by the Secretary of the Interior, but such action is expected shortly.

As of December 9, 1994, the flow-weighted average precipitation and snowpack measurements in the Upper Colorado River Basin (above Lake Powell) were 121 percent and 123 percent of normal, respectively.

### State Water Project Supply

Metropolitan's available supply from the State project for CY 1994, remains at 943,000 acre-feet. This includes the 50-percent allocation approved by the Department of Water Resources (DWR) for all contractors, less 100,000 acre-feet turned back to the project by Metropolitan last spring. It also includes the approved allocations, water bank purchases, and interruptible entitlement deliveries of Desert Water Agency and Coachella Valley Water District (DWCV).

On December 8, 1994, the DWR announced initial approval of 40 percent of contractors' requests for delivery in 1995. This results in an initial allocation of 829,080 acre-feet for Metropolitan, including DWCV's entitlement. As with previous years, this initial allocation is expected to change as the water year progresses, and could decrease should the projected supply not materialize. If runoff projections develop as currently forecasted and if environmental regulations do not severely restrict pumping from the Delta, State project allocations may increase. The DWR news release regarding the 1995 allocations is attached.

In a letter dated November 22, 1994, DWR announced its carryover policy for the use of approved allocations of CY 1994 entitlement water in CY 1995. Metropolitan has notified DWR it intends to request the carryover of approximately 100,000 acre-feet of its 1994 entitlement water into 1995. The exact amount of carryover eventually requested cannot be determined until after December 31, and approval from DWR for its use by Metropolitan in CY 1995 would follow in early January.

As of December 8, 1994, the storage in Lake Oroville was 1,619,400 acre-feet. Total storage in San Luis Reservoir was 889,600 acre-feet, with the State portion at 527,000 acre-feet. On December 8, DWR released its December forecast for the Sacramento River Index, which corresponds to a critical year for Water Year 1994-95. Final classification of the water year, however, is not made by DWR until May.

### Water Supply and Demand Balance

For the purpose of determining the total supply/demand balance, it is assumed that 1.2 MAF will be pumped from the Colorado River. Therefore, Metropolitan's CY 1995 combined Colorado River and State Water Project resources (excluding 1994 carryover water) total about 2.03 million-acre-feet, compared to a projected demand of about 2.0 million-acre-feet. Should any shortfall develop, it may be made up by additional allocations by DWR (as occurred in 1992 and 1993), and/or the activation of the 1995 Drought Management Plan (DMP) already approved by your Board. Based upon the procedures outlined in the DMP, Metropolitan has not implemented any delivery curtailments at this time, but will continue to monitor changes in the State project's anticipated supply.

With the State project supply at the December allocation level of 40 percent, it is planned to continue Seasonal Storage Service deliveries through February. Supply conditions based on the February 1 snow survey will determine the status of future deliveries beyond March 1.

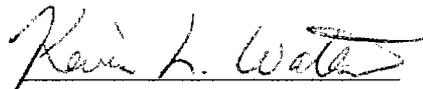
The attached Table 1 and Figure 1 summarize the projected water supply balance for CY 1994. The projected demands are based on adjusted information received from our member agencies.

The attached Table 2 and Figure 2 outline a potential CY 1995 water supply balance based upon DWR's initial December allocation. Based upon the projected supplies and demands, coupled with Metropolitan's available water management programs, no need for rationing in CY 1995 is foreseen at this time.

Recommendation

For information only.

John R. Wodraska  
General Manager

for   
E. G. Means  
Chief of Operations

Concur:

  
John R. Wodraska  
General Manager

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METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

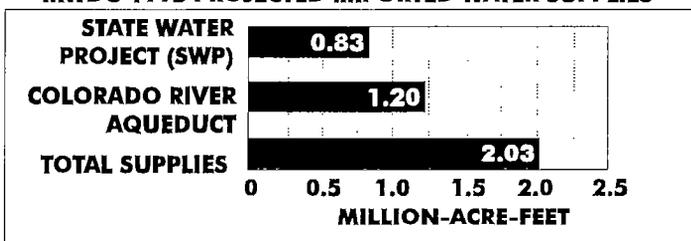
# WATER SUPPLY UPDATE

PUBLISHED BY THE OPERATIONS DIVISION

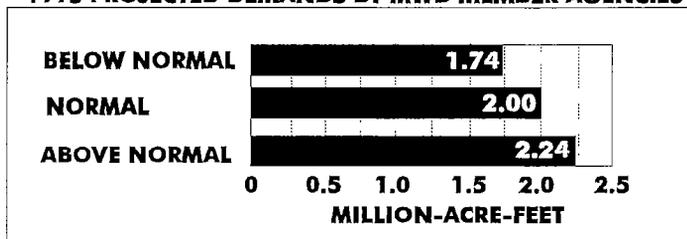
## SUMMARY

On December 8, 1994, the Department of Water Resources (DWR) announced the initial approval of 40 percent of contractors' requests for delivery in 1995. For Metropolitan, this represents an initial State project water allocation of about 829,000 acre-feet (AF) for our use in calendar year 1995. Combined with an expected 1.2 million-acre-feet (MAF) of Colorado River water, our total projected 1995 imported water supply is about 2.0 MAF. Metropolitan has notified DWR it intends to request the carryover of approximately 100,000 acre-feet of its 1994 entitlement water into 1995. The exact amount of carryover eventually requested cannot be determined until after December 31, and approval for its use by Metropolitan in CY 1995 would follow in early January. Pending monthly review of the supply conditions, Seasonal Storage Service deliveries are expected to continue through February 1995.

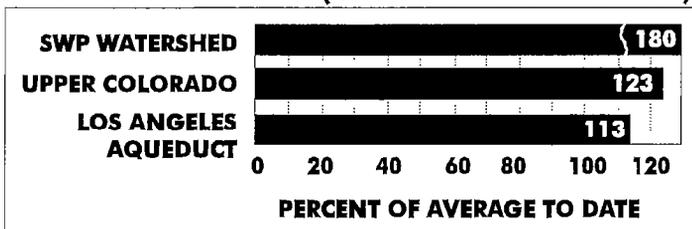
### MWD'S 1995 PROJECTED IMPORTED WATER SUPPLIES



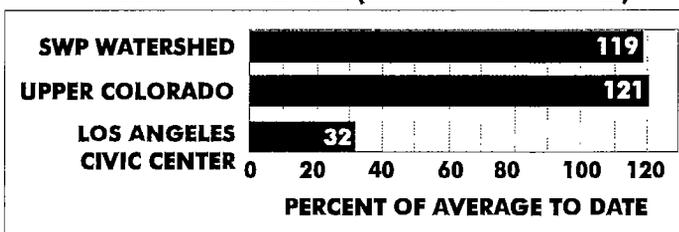
### 1995 PROJECTED DEMANDS BY MWD MEMBER AGENCIES



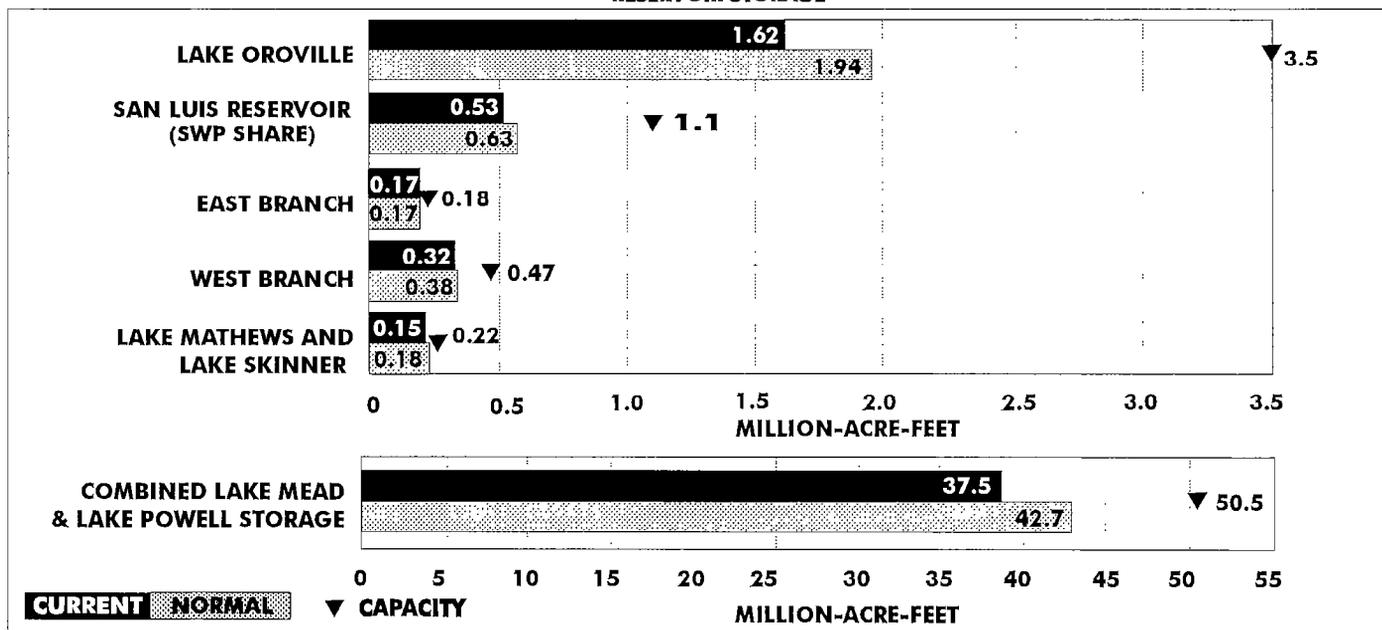
### SNOWPACK CONDITIONS (ACCUMULATED PACKED SNOW)



### PRECIPITATION LEVELS (RAIN AND SNOWFALL)



### RESERVOIR STORAGE





December 8, 1994

**Contacts:**

Jeff Cohen

[w] (916) 653-0979

[h] (916) 392-6425

Anita Garcia-Fante

[w] (916) 653-7431

[h] (916) 427-8713

Don Long

[w] (916) 653-4313

## STATE WATER PROJECT TO DELIVER AT LEAST 40 PERCENT

SACRAMENTO -- State Water Project customers will receive an initial water allocation of 40 percent of entitlement under the water supply contracts in 1995, the Department of Water Resources announced today.

Deliveries approved today will total about 1.6 million acre-feet to be distributed among the 29 State Water Project contractors. This amount may be increased during the next five months depending on rain and snowfall amounts in the Sierra Nevada.

Delivery approvals are based primarily on water presently in storage and a conservative projection of 1995 runoff. In addition, the Department has taken into account proposed protection for endangered species and proposed water quality standards for the Sacramento-San Joaquin Delta.

(more)

By the end of 1994, the fourth driest year on record, the project will have delivered about 2 million acre-feet.

Project contractors serve more than 20 million Californians and one million acres of farmland. About 65 percent of project water goes to urban areas in Southern California, the San Joaquin Valley, and the San Francisco Bay Area. The other 35 percent is allocated to agriculture, mostly in the southern San Joaquin Valley.

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(Attached is a chart of agencies' allocations)

**1995 STATE WATER PROJECT  
INITIAL ALLOCATION  
(ACRE-FEET)**

41182

S.W.P. CONTRACTORS	1995 CONTRACTURAL ENTITLEMENT AMOUNT	1995 INITIAL ENTITLEMENT ALLOCATION a)
<b>FEATHER RIVER:</b>		
County of Butte	1,200	480
Plumas County	1,250	500
Yuba City	<u>9,600</u>	<u>3,840</u>
Subtotal	12,050	4,820
<b>NORTH BAY:</b>		
Napa County	9,780	3,912
Solano County	<u>34,250</u>	<u>13,700</u>
Subtotal	44,030	17,612
<b>SOUTH BAY:</b>		
Alameda County FC&WCD - Zone 7	42,000	16,800
Alameda County WD	42,000	16,800
Santa Clara Valley WD	<u>100,000</u>	<u>40,000</u>
Subtotal	184,000	73,600
<b>SAN JOAQUIN VALLEY:</b>		
Oak Flat WD	5,700	2,280
County of Kings	4,000	1,600
Castaic Lake WA	12,700	5,080
Dudley Ridge WD	57,700	23,080
Empire West Side ID	3,000	1,200
Kern County WA	1,153,400	461,360
Tulare Lake B. WSD	<u>118,500</u>	<u>47,400</u>
Subtotal	1,355,000	542,000
<b>CENTRAL COASTAL:</b>		
San Luis Obispo County	25,000	0 b)
Santa Barbara County	<u>45,486</u>	<u>0 b)</u>
Subtotal	70,486	0
<b>SOUTHERN CALIFORNIA:</b>		
AVEK	138,400	55,360
Castaic Lake WA	41,500	16,600
Coachella Valley WD	23,100	9,240
Crestline-Lake Arrowhead WA	5,800	2,320
Desert WA	38,100	15,240
Littlerock Creek ID	2,300	920
Mojave WA	50,800	20,320
MWDSC	2,011,500	804,600
Palmdale WD	17,300	6,920
San Bernardino Valley MWD	102,600	41,040
San Gabriel Valley	28,800	11,520
San Geronio Pass	17,300	0 b)
Ventura County	<u>20,000</u>	<u>8,000</u>
Subtotal	2,497,500	992,080
<b>TOTAL</b>	<b>4,163,066</b>	<b>1,630,112</b>

a) 40% of contractual entitlement amount

b) No anticipated SWP 1995 deliveries to contractor's service area

08-Dec-94

TABLE 1  
CY 1994 WATER SUPPLY AND DEMAND BALANCE

CY 1994 Supply

Colorado River Aqueduct	1,303,000 AF
State Project Water Allocation	943,000 AF
Local Supplies (1)	<u>17,000 AF</u>
 Total Supply	 2,263,000 AF

CY 1994 Demand

Projected Use (2)	1,957,000 AF
Net to Storage (3) (4)	156,000 AF
System Losses	<u>41,000 AF</u>
 Total Projected Deliveries	 2,154,000 AF

Balance

Supplies less demands	109,000 AF
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Notes:

- (1) -- Includes Local Projects Program actual production, but does not include Arlington Desalter, West Basin Desalter or Local Project Program projections.
- (2) -- Includes delivery adjustments related to carryover of 1994 State Water Project entitlement water into 1995.
- (3) -- Deliveries into storage not recorded as sales.
- (4) -- Includes surface reservoirs, Cooperative Storage, Cyclic Storage and other Exchanges.

FIGURE 1

## SUPPLY AND DEMAND BALANCE FOR CALENDAR YEAR 1994 WITH ANTICIPATED CRA DIVERSIONS

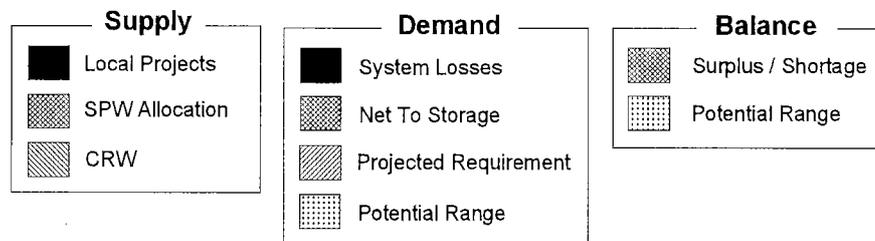
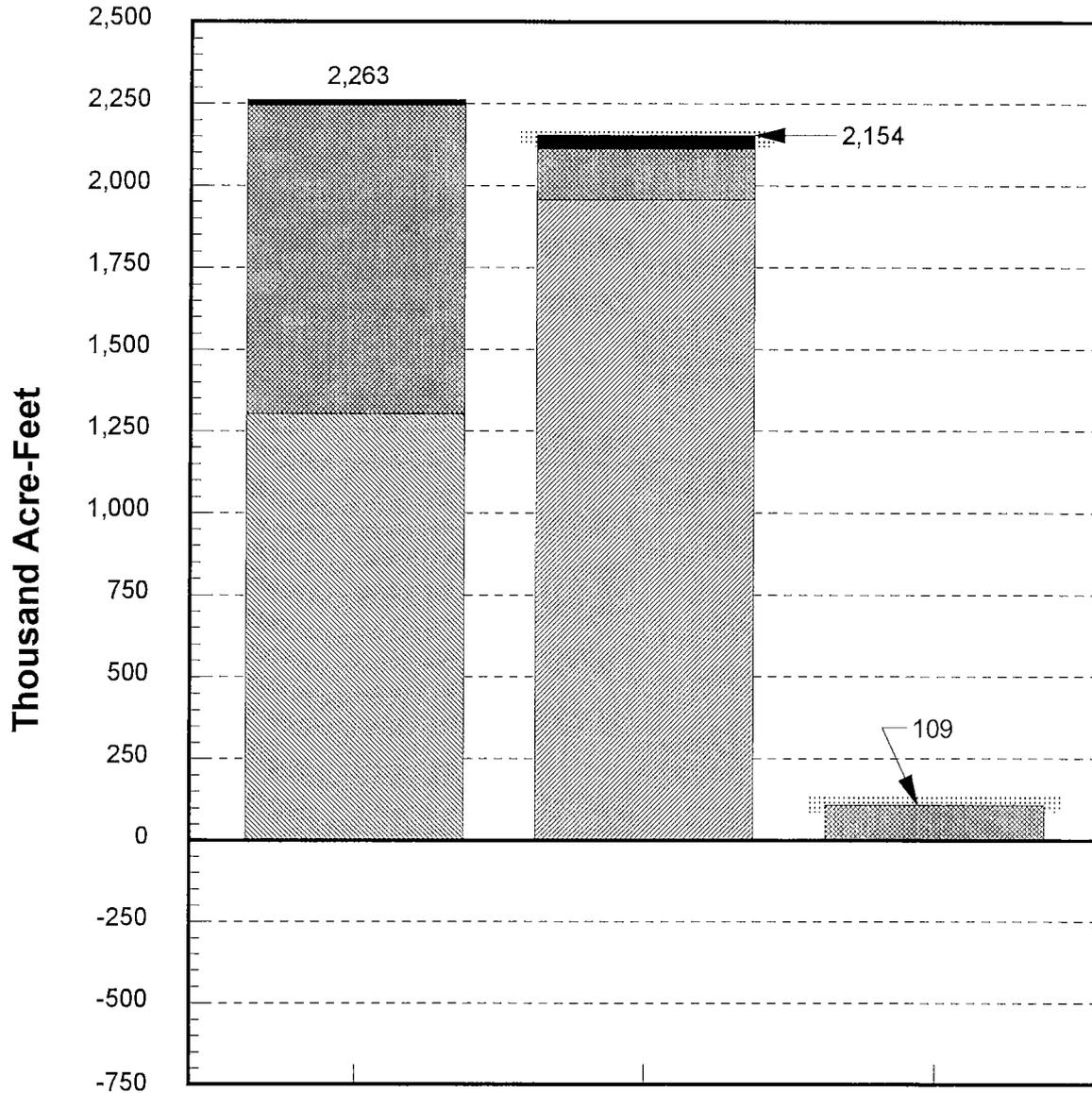


TABLE 2  
 POTENTIAL CY 1995 WATER SUPPLY AND DEMAND BALANCE  
 ASSUMING 40% SWP ALLOCATION

CY 1995 Supply Scenario

Colorado River Aqueduct	1,200,000 AF
40% State Project Water Allocation (1)	829,000 AF
Local Projects (2)	20,000 AF
Other (3)	<u>18,000 AF</u>
 Total Supply	 2,067,000 AF

Projected CY 1995 Demands

Projected Use (4) (5)	2,020,000 AF
Net to Storage (6)	(9,000)AF
System Losses	<u>36,000 AF</u>
 Total Projected Deliveries	 2,047,000 AF

Balance (7)

Supplies less demands	20,000 AF
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Notes:

- (1) -- Does not include SPW carryover (up to 100,000 AF) or any Water Bank options Metropolitan could exercise.
- (2) -- Does not include Arlington Desalter, West Basin Desalter or other non-sale Local Project projections.
- (3) -- Advance deliveries to LADWP for exchange during West Branch shutdown
- (4) -- Assumes 10 percent voluntary conservation.
- (5) -- Includes Local Projects Program sales
- (6) -- Includes surface reservoirs.
- (7) -- Potential shortfall can be met by potential SPW carryover and/or implementation of the Drought Management Plan without mandatory IICP stages.

FIGURE 2

## SUPPLY AND DEMAND BALANCE FOR CALENDAR YEAR 1995 WITH ANTICIPATED CRA DIVERSIONS AND A 40% SPW ALLOCATION

