

- **Board of Directors**
Water Planning, Quality and Resources Committee

October 14, 2003 Board Meeting

10-4

Subject

Water Surplus and Drought Management Report on Supply and Storage Balances as of September 15, 2003

Description

The purpose of this report is to keep the Board apprised of the supply conditions for the current year and storage conditions for the upcoming year as required by the Water Surplus and Drought Management Plan (WSDM).

Imported Supplies

State Water Project

Metropolitan's calendar year (CY) 2003 State Water Project (SWP) supplies, including its 2003 allocation and 2002 extended carryover supplies, are projected to be 1.9 million acre-feet (MAF). The CY 2003 end-of-year storage balance for Lake Oroville, the major carryover storage reservoir for the SWP, is projected to be 2.1 MAF as compared with a CY 2002 balance of 1.6 MAF. In addition, SWP San Luis Reservoir storage includes 0.238 MAF of carryover storage available for Metropolitan's use in CY 2004. Combined Flexible Storage account levels in Castaic Lake and Lake Perris remain at 0.219 MAF.

Colorado River Aqueduct

The projected CY 2003 Colorado River Aqueduct supplies, including Metropolitan's basic apportionment and supplies from the Imperial Irrigation District/Metropolitan Conservation Program, are 0.593 MAF. The projected end-of-year storage balance for Lake Mead is 15.3 MAF. This compares with an end-of-year storage balance of 22.5 MAF in CY 2002. The minimum storage level for a declaration of full domestic surplus under the Interim Surplus Guidelines is 15.9 MAF (1145 ft. elevation), while the minimum storage level for a declaration of partial domestic surplus is 13.8 MAF (1125 ft. elevation). The storage balance in the Arizona Groundwater Banking program remains at 0.089 MAF, and the projected end-of-year balance in the Hayfield Storage program is 0.074 MAF.

Out-of-Region Programs

In addition to the SWP and CRA supplies, Metropolitan has additional available supplies from multi-year banking programs, transfers, exchanges, and other agreements. Based on WSDM surplus actions taken to date, estimated storage balances in Metropolitan's multi-year banking programs are projected to increase to 0.765 MAF by year's end from 0.620 MAF in CY 2002. The increase in storage balances does not include the approximately 0.075 MAF in supplies that would be stored under the proposed demonstration programs with the North Kern Water Storage District and Mojave Water Agency before the Board for consideration this month. These supplies would increase this balance to 0.840 MAF. Additionally, Metropolitan has 0.085 MAF of water in storage in Lake Shasta as the result of an agreement with the U.S. Bureau of Reclamation to manage the supply from this year's Sacramento Valley water transfer agreements.

In-Region Supplies

The projected end-of-year storage balance for Diamond Valley Lake is 0.597 MAF, as compared with 0.778 MAF in CY 2002. Although the region was in a surplus supply balance for the calendar year, this decrease will result from system operations made necessary due to the construction of the Lake Mathews outlet tower, scheduled maintenance shutdown of the CRA, and extended drought condition in the Colorado River system. Combined CY 2003 storage levels at Lake Mathews and Lake Skinner are projected to total 0.102 MAF, as compared

to 0.069 MAF last year. The storage levels for in-region conjunctive use programs are estimated to be 0.075 MAF by year's end. In addition, the balances for the Cyclic, WSM & Trust storage programs are estimated to be 0.168 MAF.

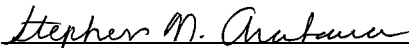
Notwithstanding the demonstration programs that are before the Board for consideration, and the continued efforts to maximize storage and deliveries of water through the end of the year, it is not anticipated that there will be additional WSDM actions this calendar year that will significantly impact supplies or storage balances. The next WSDM report will be in January with monthly supply and demand reports called for under the WSDM Plan. For a summary of supplies, demands and storage levels, see [Attachment 1](#).

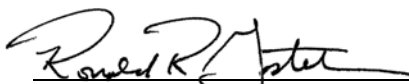
Policy

By Minute Item 43514, dated April 13, 1999, the Board adopted the Water Surplus and Drought Management Plan.

Fiscal Impact

None

	9/26/2003
Stephen N. Arakawa Manager, Water Resource Management	Date

	9/30/2003
Ronald R. Gastelum Chief Executive Officer	Date

Attachment 1 – Supply and Storage Balances

BLA #2512

Supply and Storage Balances

Supplies

The table below summarizes the latest projections of supplies for CY 2003:

State Water Project	1,906,000 AF
Colorado River Aqueduct	593,000 AF
Total	2,499,000 AF

Storage Levels

Staff has identified the following surface and groundwater storage facilities and their available capacities that will be used to store surplus water consistent with surplus actions outlined in the WSDM Plan:

	Storage Balances (AF) As of 1-1-03	Projected End-of-Year Storage Balances (AF)	Difference (AF) + / (-)
State Water Project			
Oroville	1,600,000	2,100,000	500,000
Extended Carryover	135,000	240,000	105,000
Flexible Storage (Castaic and Perris)	219,000	219,000	0
Colorado River			
Lake Mead	22,100,000	15,300,000	(680,000)
DWCV Advanced Delivery Account	233,000	198,000	(35,000)
Arizona Ground Water Banking Storage	89,000	89,000	0
Hayfield Storage	67,000	74,000	7,000
Out of Region Programs			
Sacramento Valley Transfers	0	85,000	85,000
Multiyear Banking Programs	620,000	765,000	145,000
Additional Banking Programs*		75,000	75,000
In-Region			
Diamond Valley Lake	778,000	597,000	(181,000)
Lake Mathews and Skinner	69,000	102,000	33,000
Conjunctive Use	65,000	75,000	10,000
Cyclic, WSM & Trust Storage	171,000	168,000	(3,000)

* Proposed demonstration programs with the North Kern Water Storage District and Mojave Water Agency before the Board for consideration this month.