

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

January 10, 2006 Board Meeting

9-2

Subject

Water Surplus and Drought Management Plan report on water supply and demand (as of Dec. 15, 2005)

Description

Currently, the projected CRA and SWP base supplies total approximately 2.46 MAF. When combined with the approximately 1.4 MAF of available WSDM supplies and additional WSDM management actions in CY 2006, Metropolitan should be able to cover the current range of estimated firm demands. At the beginning of each year, Metropolitan faces a wide range of possible supply and demand conditions. The WSDM Plan provides a strategy to manage Metropolitan's resources to meet that range of possible hydrologic conditions for the upcoming year. Changes in conditions after the posting of this report will be provided at the Water Planning, Quality, and Resources Committee meeting.

This letter is the initial Water Surplus and Drought Management Plan report on water supply and demand for calendar year 2006. These reports will apprise the Board of developing conditions that may impact water supply reliability and any potential WSDM actions that may be required for the year. From January through May, imported supplies from the State Water Project, Colorado River Aqueduct and Los Angeles Aqueduct, as well as demands, are highly variable due to weather conditions. During the early months of January through March, staff will update the Board monthly on changing conditions affecting both projected supplies and demands. When the precipitation season ends in April-May and water conditions are more certain, a final WSDM report will be given to the Board along with a summary of required WSDM actions for the year.

Water Supply

Colorado River Aqueduct

As of the posting deadline for this letter, Metropolitan had not received an approved water order for Colorado River supplies for CY 2006 from the U.S. Bureau of Reclamation. However, staff estimates that the initial approved water order will be approximately 750,000 acre-feet of supplies. This projection is conservative, with a high likelihood, as in past years, that Metropolitan's total Colorado River supplies will increase during the year. Metropolitan's projection includes our Basic Apportionment (550,000 AF), the Imperial Irrigation District conservation program (82,000 AF), the Imperial Irrigation District/San Diego County Water Authority Transfer agreement (40,000 AF), and the Palo Verde Irrigation District Land Management Program (95,000 AF). Additionally, revisions to deliveries to California's agricultural districts along the Colorado River will likely result in an additional 50,000 AF of supplies for Metropolitan based on the historical usage of the districts. Thus, total projected CY 2006 Colorado River supplies are approximately 800,000 AF.

State Water Project

On November 22, 2005, the California Department of Water Resources announced an initial 2006 allocation of SWP Table A supplies of 55 percent for long-term SWP contractors. This represented the highest initial allocation since 1999 and compares with an initial allocation of 40 percent in 2005. On December 14, the allocation was raised to 65 percent, resulting in an allocation of approximately 1.24 million acre-feet of Table A supplies for Metropolitan. At this point of the year, the allocation is conservative with a likelihood that the final allocation will be greater. DWR formally reviews hydrologic and storage conditions on a monthly basis and updates the SWP allocation, as appropriate, throughout the year. In addition to the allocated Table A supplies, Metropolitan anticipates a minimum of 420,000 AF of other SWP supplies from extended carryover storage

stored in CY 2005, supplies resulting from SWP and Metropolitan outages in CY 2005, Metropolitan's exchange agreement with the Desert Water Agency and Coachella Valley Water District, and additional agreements with the San Bernardino Valley Municipal Water District and the city of Port Hueneme. Total CY 2006 supplies, at this point, are approximately 1.66 MAF.

WSDM Supplies and Management Actions

Beyond these base CRA and SWP supplies, Metropolitan has approximately 1.4 MAF of supplies in WSDM resource reserves. These supplies include surface storage, groundwater storage, and water transfer agreements. Because of operational constraints, the entire balance may not be available in any one year. A summary of the available WSDM supplies and storage capabilities for CY 2006 is presented below and a detailed listing is included as [Attachment 1](#).

WSDM Supplies for CY 2006				
Program	Projected 1/1/06 Storage Levels	Capacity Available for Storage	CY 2006 Take Capacity	CY 2006 Put Capacity
CRA Storage *	320,000	280,000	170,000	150,000
SWP Storage **	992,000	273,000	775,000	444,000
In-Region Storage ***	1,197,000	496,000	488,000	135,000
Total	2,509,000	1,049,000	1,433,000	729,000

* CRA storage does not include 70,000 acre-feet of storage in the Hayfield Program

** SWP storage includes surface, flex and conjunctive use storage. Does not include SWP southern reservoir storage and extended carryover

*** In-Region storage includes surface, cyclic storage and conjunctive use storage

Also available for CY 2006 under the WSDM Plan are WSDM water management actions that include increased voluntary short-term conservation and delivery reductions of non-firm demands.

Demand

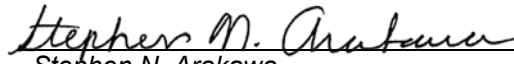
Projected total demands on Metropolitan for CY 2006 range from a low of 1.8 MAF under wet/cool conditions to a high of 2.5 MAF under hot/dry conditions. This estimate includes a projected range for firm demands of 1.5 MAF to 2.0 MAF. Under normal hydrologic conditions, demands are projected to be 2.1 MAF. As a point of reference, Metropolitan's current demand projection under normal hydrologic conditions for the end of CY 2005 is 2.0 MAF. This includes projections of 1.7 MAF for firm demands, 195 TAF for replenishment demands, and 100 TAF for agricultural demands.

Policy

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

Fiscal Impact

None

 12/16/2005
Stephen N. Arakawa Date
Manager, Water Resource Management

 12/20/2005
Debra C. Man Date
Interim CEO/General Manager

Attachment 1 – WSDM Supplies for CY 2006

BLA #3974

WSDM Supplies for CY 2006				
Program	Projected 1/1/06 Storage Levels	Capacity Available for Storage	CY 2006 Take Capacity	CY 2006 Put Capacity
<i>CRA Storage</i>				
Advance Delivery Account (DWCV)	320,000	280,000	170,000	150,000
<i>SWP Storage</i>				
Sac. Valley Transfers Stored in Shasta	46,000	0	46,000	0
Arvin Edison Storage Program	207,000	43,000	58,000	60,000
Semitropic Storage Program	346,000	4,000	70,000	4,000
Kern Delta Storage Program	79,000	171,000	25,000	45,000
SBVMWD Coord. Operating Agmt.	50,000	0	47,000	0
Mojave Storage Program	45,000	55,000	25,000	50,000
Castaic Lake (Flex Storage)	154,000	0	154,000	0
Lake Perris (Flex Storage)	65,000	0	65,000	0
MWD '06 Carryover *	0	0	200,000	200,000
DWCV '06 Carryover *	0	0	85,000	85,000
<i>Subtotal</i>	<i>992,000</i>	<i>273,000</i>	<i>775,000</i>	<i>444,000</i>
<i>In-Region Storage</i>				
Diamond Valley Lake	787,000	13,000	400,000	13,000
Lake Mathews & Lake Skinner	182,000	44,000	60,000	44,000
Cyclic - USG	44,800	55,200	5,000	Varies
Cyclic - PM (Three Valleys)	12,300	27,700	500	Varies
Cyclic - IEUA (Chino Basin)	1,700	98,300	1,700	0
Conj. Use - IEUA (Chino Basin)	48,000	52,000	0	25,000
Conj. Use - Long Beach (Cent. Basin)	13,000	0	4,300	0
Conj. Use - FM (Live Oak Basin)	500	2,500	0	750
Conj. Use - Calleguas (N. Las Posas)	51,000	159,000	16,700	33,000
Conj. Use - MWDOC	28,000	32,000	0	15,000
Conj. Use - Three Valleys	3,400	0	0	0
Conj. Use - Foothill	2,400	6,600	0	2,500
Conj. Use - Compton	600	1,700	0	500
Conj. Use - Long Beach (Lakewood)	0	3,600	0	900
Conj. Use - Pasadena	22,000	0	0	0
<i>Subtotal</i>	<i>1,197,000</i>	<i>496,000</i>	<i>488,000</i>	<i>135,000</i>
Total	2,509,000	1,049,000	1,433,000	729,000

* CY'05 Carryover amounts are included in SWP base supplies*