

- **Board of Directors**
Water Planning and Stewardship Committee

April 10, 2007 Board Meeting

9-3

Subject

Water Surplus and Drought Management Plan report on water supply and demand as of March 26, 2007

Description

Each month the Board is apprised of developing water supply and demand conditions that may impact water supply reliability. This report covers conditions through March 26. Conditions impacting imported and local supplies as well as demands are still variable due to weather conditions.

Water Supply

Colorado River Aqueduct

Staff's current estimate of Colorado River supplies for CY 2007 is approximately 652 thousand acre-feet (TAF) based on Metropolitan's approved water order from the U.S. Bureau of Reclamation. This figure includes 550 TAF of basic total apportionment supplies, approximately 72 TAF of additional CRA base supplies from the Imperial Irrigation District Program and IID/San Diego County Water Authority Transfer & Exchange Agreement in CY 2007, and 63 TAF under the PVID Land Fallowing Program. A detailed listing of the Colorado supplies is included as [Attachment 1](#).

State Water Project

Staff's estimate of SWP supplies for CY 2007 is currently 1.48 million acre-feet (MAF). This figure assumes a SWP allocation of 1.15 MAF based on DWR's latest SWP allocation of 60 percent for SWP Contractors. SWP supply conditions continue to develop and the final SWP allocation could change. In addition to the Table A supplies, Metropolitan has moved 28 TAF of SWP base supplies from extended carryover supplies stored in CY 2006 and anticipates moving 167 TAF of Article 21 supplies into the service area through the period covered under this update. Further, Metropolitan's exchange agreement with the Desert Water Agency and Coachella Valley Water District, transfer agreement with the San Bernardino Valley Municipal Water District, agreement with the city of Port Hueneme and acquisition of Turnback Pool A supplies are targeted to produce an additional 134 TAF. A detailed listing of the SWP supplies is included as [Attachment 1](#).

Emerging Issue

On March 23, 2007 the Superior Court of Alameda County ruled against the Department of Water Resources stating that they did not have the appropriate authorization from the California Department of Fish and Game for the "take" of endangered species under the California Endangered Species Act. The order, which could have serious implications on the SWP system, was stayed for 60 days while DWR is allowed to either pursue further legal action or provide the required authorization.

Metropolitan's current estimate of SWP supplies does not reflect this most recent course of events. However, staff is actively working with DWR to ensure a resolution to this matter and will be providing further reports at the April Board committee meetings.

WSDM Supplies and Management Actions

In addition to the base CRA and SWP supplies, Metropolitan entered CY 2007 with approximately 2.5 MAF of supplies in its WSDM resource portfolio. However, as the year progresses the ability to access that amount can vary because of operational constraints, both inside and outside of Metropolitan's service area, as well as with Metropolitan's partners. Currently, the estimated amount of WSDM supplies available for the remainder of

CY 2007 is 900 TAF. These supplies include additional surface storage, groundwater storage, and water transfer agreements as summarized in the table below. A detailed listing of the WSDM supplies is included as [Attachment 2](#).

WSDM Supplies for CY 2007				
Program	1/1/07 Storage Levels	Capacity Available for Storage	CY 2007 Take Capacity	CY 2007 Put Capacity
CRA Storage *	360,500	575,000	102,660	200,000
SWP Storage **	1,008,300	352,700	514,800	476,500
In-Region Storage ***	1,144,700	567,600	281,000	191,650
Total	2,513,500	1,495,300	898,460	868,150

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

** SWP storage includes surface, flex and banked supplies. 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 2007 under the WSDM Plan are WSDM water management actions that include increased voluntary short-term conservation and delivery reductions of non-firm demands.

Demand

Current projected total demands on Metropolitan for CY 2007 range from a low of 2.0 MAF under wet/cool conditions to a high of 2.7 MAF under dry-year conditions. Under normal hydrologic conditions, demands are projected to be 2.4 MAF.

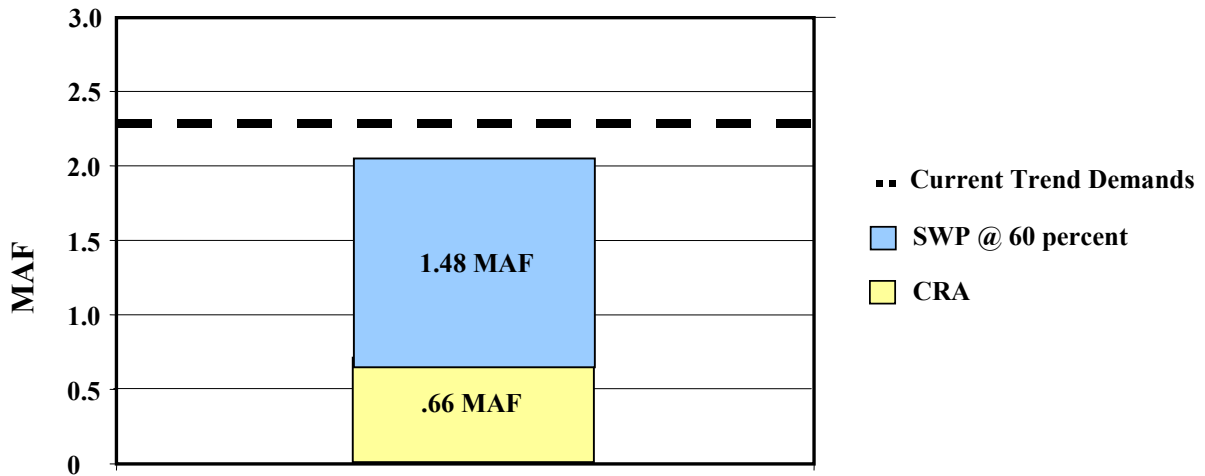
Looking Ahead

While current storage levels are sufficient to maintain three years at full withdrawal levels, it is still important to continue strategic resource planning and management for subsequent years. The key factors that will significantly impact next year's supply outlook are the degree of temperature and precipitation in the upcoming summer months, which impact water demand, and the amount of storage withdrawals necessary to balance potentially higher demands. Storage levels in the SWP system and state contractor demands will affect the projected initial allocation for CY 2008. Staff will report on these factors as part of its post-summer report due in October.

Summary

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. Currently, the projected CRA and SWP base supplies total approximately 2.13 MAF. When combined with the approximately 900 TAF of WSDM supplies and additional WSDM management actions, Metropolitan expects to be able to cover the range of estimated demands in CY 2007. Changes in conditions after the posting of this report will be provided at the Water Planning and Stewardship Committee. At this point in the year, board action in relation to the WSDM Plan and water management actions is not deemed necessary. Board actions would be required for any water transfers, purchases, or additional exchanges not currently under contract, or actions requiring amendment to current storage contracts.

Current CY 2007 Supply/Demand Balance



Policy

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

Fiscal Impact

None

Stephen N. Arakawa 3/27/2007
 Stephen N. Arakawa Date
 Manager, Water Resource Management

Jeffrey Kightlinger 3/27/2007
 Jeffrey Kightlinger Date
 General Manager

Attachment 1 – CRA and SWP Supplies Allocated as of March 15, 2007

Attachment 2 – WSDM Supplies for CY 2007

CRA and SWP Supplies Allocated as of March 15, 2007	
Colorado River Supplies	
Basic Total Apportionment	550,000
IID-MWD Conservation	85,000
SDCWA-IID & canal lining	71,500
San Luis Rey Supplemental Water	4,500
Central Arizona storage recovery	16,804
Restore Reregulated water	(21,649)
Adjustments for USBR System Conservation in PVID	(7,000)
MWD Water Budget Adjustment	(47,243)
<i>Priority 1,2, and 3b</i>	-42,667
<i>Imperial ID</i>	0
<i>Coachella Valley WD</i>	0
<i>Misc and Indian PPR's</i>	-4,576
<i>Colorado River Supplies Total</i>	651,912
State Water Project Supplies	
SWP Table A	1,146,840
DWCV Entitlement	102,660
SBVMWD	20,000
MWD/DWCV Turnback Pool & Article 21 (including Special Art 21)	176,281
Port Hueneme	1,850
Carryover & 14b	28,098
<i>State Water Project Supplies Total</i>	1,475,729
Total	2,127,641

WSDM Supplies for CY 2007				
Program	1/1/07 Storage Levels	Capacity Available for Storage	CY 2007 Take Capacity	CY 2007 Put Capacity
<i>CRA Storage</i>				
Advance Delivery Account (DWCV)	224,000	376,000	102,660	150,000
Lake Mead Storage Demonstration Program	47,500	199,000	0	50,000
Central Arizona Underground Storage Demonstration Project	89,000	0	0	0
<i>Subtotal</i>	<i>360,500</i>	<i>575,000</i>	<i>102,660</i>	<i>200,000</i>
<i>SWP Storage</i>				
Sac. Valley Transfers Stored in Shasta	47,000	0	47,000	0
EWA Wet/Dry Exchange	50,000	100,000	50,000	100,000
Arvin Edison Storage Program	212,500	37,500	61,000	37,500
Semitropic Storage Program	346,000	4,000	80,000	4,000
Kern Delta Storage Program	38,800	211,200	4,000	50,000
SBVMWD Coord. Operating Agmt.	50,000	0	19,400	0
Mojave Storage Program	45,000	0	34,400	0
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	0	200,000
DWCV '06 Carryover *	0	0	0	85,000
<i>Subtotal</i>	<i>1,008,300</i>	<i>352,700</i>	<i>514,800</i>	<i>476,500</i>
<i>In-Region Storage</i>				
Diamond Valley Lake	740,000	80,000	200,000	70,000
Lake Mathews & Lake Skinner	173,000	53,000	60,000	44,000
Cyclic - USG	48,300	51,700	Up to stored volume	Varies
Cyclic - PM (Three Valleys)	12,800	27,200	Up to stored volume	Varies
Cyclic - IEUA (Chino Basin)	1,700	98,300	Up to stored volume	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>1,144,700</i>	<i>567,600</i>	<i>281,000</i>	<i>191,650</i>
Total	2,513,500	1,495,300	898,460	868,150

* CY'06 Carryover amounts are included in SWP base supplies