

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

May 16, 2006 Board Meeting

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**9-3**

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**Subject**

Water Surplus and Drought Management Plan report on water supply and demand as of April 13, 2006

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**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 April 13. Currently, projected base CRA and SWP supplies are sufficient to meet the range of projected demands on Metropolitan. Conditions impacting imported and local supplies, as well as demands, are still variable due to developing hydrological conditions. Staff will update the Board on significant changes to these conditions as appropriate.

**Water Supply**

*Colorado River Aqueduct*

Staff's current estimate of Colorado River supplies for CY 2006 is approximately 750 thousand acre-feet (TAF). This figure includes 550 TAF of supplies based on Metropolitan's approved water order from the U.S. Bureau of Reclamation, approximately 120 TAF of additional CRA base supplies from the Imperial Irrigation District Program and IID/San Diego County Water Authority Transfer & Exchange Agreement in CY 2006, and 80 TAF under the PVID Land Following Program.

*State Water Project*

Staff's estimate of SWP supplies for CY 2006 is currently 2.11 million acre-feet (MAF). This figure assumes a SWP allocation of 1.53 MAF based on DWR's latest SWP allocation of 80 percent for SWP Contractors. SWP supply conditions continue to develop and the final SWP allocation could be higher. In addition to the Table A supplies, Metropolitan has moved 136 TAF of SWP base supplies from extended carryover supplies stored in CY 2006 and 250 TAF of Article 21 supplies into the service area. 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 should produce an additional 192 TAF.

*WSDM Supplies and Management Actions*

In addition to the base CRA and SWP supplies, Metropolitan entered CY 2006 with approximately 1.43 million acre-feet of supplies in its WSDM resource portfolio. However, as the year progresses the ability to access that amount diminishes because of operational constraints both inside and outside of Metropolitan's service area. Currently, the estimated amount of WSDM supplies available for CY 2006 is 1.12 MAF. These supplies include additional surface storage, groundwater storage, and water transfer agreements that are summarized in the table below. A detailed listing of the WSDM supplies is included as [Attachment 1](#).

WSDM Supplies for CY 2006				
Program	1/1/06 Storage Levels	Capacity Available for Storage	CY 2006 Take Capacity	CY 2006 Put Capacity
CRA Storage *	285,000	315,000	137,000	155,000
SWP Storage **	992,000	558,000	490,000	444,000
In-Region Storage ***	1,197,000	526,000	488,000	145,000
<b>Total</b>	<b>2,474,000</b>	<b>1,399,000</b>	<b>1,115,000</b>	<b>744,000</b>

\* 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, conjunctive use storage and supplemental 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.

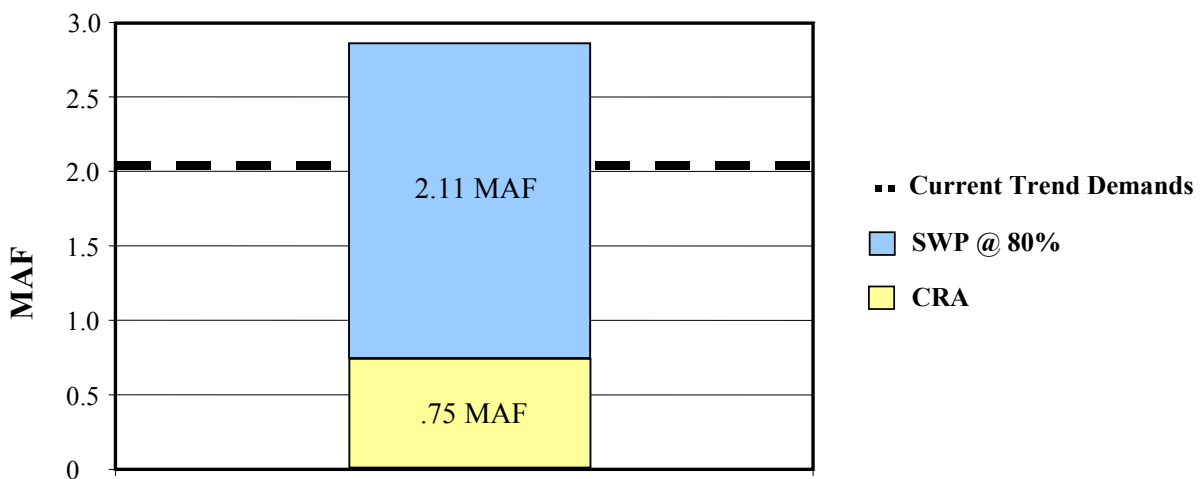
**Demand**

Current projected total demands on Metropolitan for CY 2006 range from a low of 1.83 MAF under wet/cool conditions to a high/dry of 2.31 MAF under dry year conditions. This estimate includes a projected range for firm demands of 1.8 MAF to 2.3 MAF. Under normal hydrologic conditions, demands are projected to be 2.07 MAF.

**Summary**

Currently, projected CRA and SWP base supplies total approximately 2.86 MAF. When combined with the approximately 1.12 MAF of WSDM supplies and additional WSDM management actions, Metropolitan should be able to cover the current range of estimated demands in CY 2006. 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.

**Current CY 2006 Supply/Demand Balance**



**Policy**

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

**Fiscal Impact**

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None

  
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Grace L. Chan  
for Stephen N. Arakawa  
Manager, Water Resource Management  
4/19/2006  
Date

  
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Jeffrey Kightlinger  
General Manager  
4/21/2006  
Date

**Attachment 1 – WSDM Supplies for CY 2006**

BLA #3978

<b>WSDM Supplies for CY 2006</b>				
<b>Program</b>	<b>1/1/06 Storage Levels</b>	<b>Capacity Available for Storage</b>	<b>CY 2006 Take Capacity</b>	<b>CY 2006 Put Capacity</b>
<i><b>CRA Storage</b></i>				
Advance Delivery Account (DWCV)	285,000	315,000	137,000	155,000
<i><b>SWP Storage</b></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	200,000	0	200,000
DWCV '06 Carryover *	0	85,000	0	85,000
<b><i>Subtotal</i></b>	<b><i>992,000</i></b>	<b><i>558,000</i></b>	<b><i>490,000</i></b>	<b><i>444,000</i></b>
<i><b>In-Region Storage</b></i>				
Diamond Valley Lake	787,000	23,000	400,000	23,000
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
Supplemental Storage (OCWD)	0	TBD	0	Varies
Supplemental Storage (Los Angeles)	0	20,000	0	Varies
<b><i>Subtotal</i></b>	<b><i>1,197,000</i></b>	<b><i>526,000</i></b>	<b><i>488,000</i></b>	<b><i>145,000</i></b>
<b>Total</b>	<b>2,474,000</b>	<b>1,399,000</b>	<b>1,115,000</b>	<b>744,000</b>

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