

- Water Surplus and Drought Management Plan on water supply and demand as of February 21, 2008

Summary

At the current time, the approved CRA and SWP base supplies total 1.53 MAF. Metropolitan has approximately 1.72 MAF of storage in its WSDM resource portfolio as of the beginning of CY 2008, and can access approximately 800 TAF of this storage over the remainder of the calendar year. In addition, Metropolitan has identified approximately 180 TAF in potential transfers and exchanges for CY 2008. With these water supplies, Metropolitan expects to be able to meet the range of estimated demands in CY 2008.

Attachments

[Attachment 1: Projected CRA and SWP Supplies for CY 2008](#)

[Attachment 2: Projected WSDM Supplies for CY 2008](#)

Detailed Report

This letter is the fourth monthly WSDM Plan report on water supply and demand for CY 2008. 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 (SWP), Colorado River Aqueduct and Los Angeles Aqueduct, as well as demands, are highly variable due to weather conditions.

Water Supply and Demand Balance

Colorado River Aqueduct

Staff's estimate of Colorado River supplies for CY 2008 is approximately 776 TAF acre-feet of net diversions, based on Metropolitan's approved water order from the Federal Bureau of Reclamation. This figure includes Metropolitan's Basic Apportionment (550 TAF), the Imperial Irrigation District conservation program (85 TAF), the Imperial Irrigation District/San Diego County Water Authority Transfer (72 TAF), and the Palo Verde Irrigation District Land Management Program (82 TAF). A detailed listing of the Colorado supplies is included as [Attachment 1](#).

State Water Project

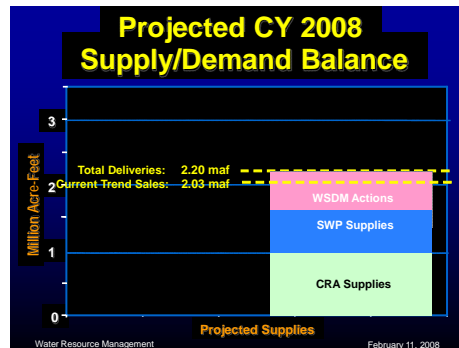
On February 1, 2008 the California Department of Water Resources (DWR) announced an increase in the SWP allocation to 35 percent of the Table A contract amount. DWR will continue to review hydrologic and storage conditions on a monthly basis and update the SWP allocation, as appropriate, throughout the year. This allocation also includes SWP operational constraints, including Delta export restrictions resulting from the Federal District Court's remedy order to protect Delta Smelt. Under a 35 percent Table A allocation, Metropolitan would receive Table A supplies of 669 TAF. Metropolitan would also take delivery of 64 TAF from Metropolitan's transfer and exchange agreements with the Desert Water Agency and Coachella Valley Water District, the San Bernardino Municipal Valley Water District, and the City of Port Hueneme. Total CY 2008 SWP supplies under a 35 percent allocation are projected at 751 TAF. A detailed listing of SWP supplies is listed in [Attachment 1](#).

Sales and Demand for Water Deliveries

Water sales for calendar year 2008 are projected to be 2.03 MAF at the current trend, with a range of 1.75 MAF under wet/cool conditions to 2.36 MAF under hot/dry conditions. This represents the amount of water deliveries associated with Metropolitan's rates and revenues. It also reflects that replenishment deliveries for the year have been discontinued and will not be sold or delivered, and that deliveries under the Interim Agricultural Water Program will be reduced by 30 percent.

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In addition to the 2.03 MAF of estimated sales, Metropolitan is also responsible for delivering water or meeting other delivery obligations. These delivery obligations include the Imperial Irrigation District/San Diego County Water Authority Transfer and the supplies from their canal lining projects, and adjustments for Metropolitan system losses. The total of the additional delivery obligations are approximately 168 TAF. Including these additional delivery obligations, total demands on Metropolitan for CY 2008 are expected to be 2.20 MAF at the current trend, with a range from the low of 1.92 MAF under wet/cool conditions to a high of 2.53 MAF under hot/dry conditions. The total demands do not include the obligation to deliver water as part of the exchange with Desert Water Agency and Coachella Valley Water District (DWCV). At this time, Metropolitan intends to meet the obligation through water stored in the Advance Delivery Account agreement with those two agencies.



WSDM Supplies and Management Actions

WSDM Storage Portfolio

In addition to base CRA and SWP supplies, Metropolitan has approximately 1.72 MAF of storage in its WSDM resource portfolio as of the beginning of CY 2008. The available WSDM supplies and management actions for calendar year 2008 under a 30 percent and 60 percent SWP allocation range from 785 to 817 TAF. Detailed program level estimates of operational WSDM supplies for 2008 under those SWP allocations, along with projected storage levels, are shown in [Attachment 2](#). The amounts shown for extraction availability are based on contract minimums of the programs. Metropolitan staff will continue to work cooperatively with Member Agency and other partners to ensure coordination and effective program management. [Attachment 2](#) also shows the programs under development and separates out emergency storage reserves in Metropolitan's reservoirs and shows the additional emergency storage available through DWR's storage. This more clearly differentiates dry-year storage availability for 2008 from emergency reserves. At this time, Metropolitan has access to approximately 674 TAF of emergency storage.

Transfers

In November 2007, the Board authorized the General Manager to enter into an agreement with the State Water Project Contractors Authority to pursue up to 200,000 acre-feet of water transfer agreements with sellers located in the Sacramento and San Joaquin valleys for Calendar Year 2008. Staff is currently developing up to 100,000 acre-feet in the Sacramento Valley (which results in approximately 80,000 acre-feet net of delta conveyance losses), and up to 45,000 acre-feet in the San Joaquin Valley. In addition to these State Water Project transfers, staff will also be bringing forward for the Board's consideration a joint funding agreement for the Drop 2 Reservoir Project and an exchange agreement with the Southern Nevada Water Authority. These Colorado River transfers will produce a combined total of 55,000 acre-feet in Calendar Year 2008, bringing the total amount of transfers and exchanges identified for the year to 180,000 acre-feet.

CY 2008 Projected CRA and SWP Supplies	
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	25,000
Lower Colorado Water Supply Project	6,741
PVID Land Fallowing	82,109
MWD Water Budget Adjustment	-49,266
<i>Priority 1,2, and 3b</i>	<i>-45,834</i>
<i>Imperial ID</i>	<i>0</i>
<i>Coachella Valley WD</i>	<i>0</i>
<i>Misc and Indian PPR's</i>	<i>-3,432</i>
<i>Colorado River Supplies Total</i>	<i>775,584</i>
State Water Project Supplies	
Table A (35 percent allocation)	669,025
Desert Water/Coachella Valley exchange	59,885
San Bernardino Valley MWD Coordinated Operation Agreement	20,000
Port Hueneme Agreement	1,850
<i>State Water Project Supplies Total</i>	<i>750,760</i>
Total	1,526,344

Projected WSDM Supplies for CY 2008

Program	1/1/2008 Storage Levels	Amount Available at 30% SWP Allocation	Amount Available at 60% SWP Allocation	CY 2008 Put Capacity
CRA Storage				
Advance Delivery Account (DWCV) *	121,400	0	0	150,000
Lake Mead ICS Account	23,100	23,100	23,100	200,000
Central Arizona Underground Storage Demonstration Project *	64,100	0	0	0
Subtotal	208,600	23,100	23,100	350,000
SWP Storage				
EWA Wet/Dry Exchange	50,000	50,000	50,000	
Arvin Edison Storage Program	189,400	40,000	40,000	45,000
Semitropic Storage Program	250,300	140,589	156,864	31,675
Kern Delta Storage Program	31,300	10,000	10,000	55,000
SBVMWD Coord. Operating Agmt.	50,000	15,000	15,000	0
Mojave Storage Program	18,900	3,250	18,900	0
Castaic Lake (Flex Storage)	138,600	138,600	138,600	15,400
Lake Perris (Flex Storage)	65,000	65,000	65,000	0
Subtotal	793,500	462,439	494,364	147,075
In-Region Dry-Year Storage				
Diamond Valley Lake	390,100	200,000	200,000	213,000
Lake Mathews & Lake Skinner	27,200	27,200	27,200	86,500
Cyclic - USG	48,300	Up to stored volume	Up to stored volume	0
Cyclic - PM (Three Valleys)	15,300	Up to stored volume	Up to stored volume	0
Cyclic - IEUA (Chino Basin)	0	0	0	0
Conj. Use - IEUA/TVMWD (Chino Basin)	88,000	24,750	24,750	12,000
Conj. Use - Long Beach (Cent. Basin)	9,800	4,300	4,300	3,250
Conj. Use - Long Beach (Lakewood)	1,800	1,000	1,000	900
Conj. Use - Foothill (Raymond and Monkhill)	3,400	2,500	2,500	2,250
Conj. Use - Calleguas (N. Las Posas)	59,700	10,000	10,000	0
Conj. Use - MWD OC (Orange County Basin)	49,700	11,000	11,000	15,000
Conj. Use - Three Valleys (Live Oak)	700	700	700	750
Conj. Use - Three Valleys (upper Claremont)	0	0	0	750
Conj. Use - Compton	1,100	300	300	0
Conj. Use - Western	400	400	400	3,000
Supplemental Storage Program (Los Angeles)	20,000	10,000	10,000	0
Supplemental Storage Program (MWD OC)	7,000	7,000	7,000	
Subtotal	722,500	299,150	299,150	337,400
Total	1,724,600	784,689	816,614	834,475

*Both DWCV and the Central Arizona amounts have been shown as zero because they have been accounted for already in base supplies.

Programs Under Development in 2008

Program	Projected 1/1/2008 Storage Levels	Amount Available at 30% SWP Allocation	Amount Available at 60% SWP Allocation	CY 2008 Put Capacity
CRA Storage				
Conj. Use - Pasadena	21,700	0	0	0
Hayfield Storage Program	73,000	0	0	0
SUBTOTAL	94,700	0	0	0
SWP Storage				
MWD '08 Carryover *	0	0	0	200,000
DWCV '08 Carryover *	0	0	0	85,550
Sac. Valley Transfers Stored in Shasta	47,000	0	0	0
SUBTOTAL	47,000	0	0	285,550
TOTAL	141,700	0	0	285,550
Emergency Storage Reserves				
Metropolitan Emergency Storage				
Diamond Valley Lake	206,900	206,900	206,900	N/A
Lake Mathews	78,500	78,500	78,500	N/A
Lake Skinner	33,800	33,800	33,800	N/A
SUBTOTAL	319,200	319,200	319,200	
DWR Emergency Storage				
Castaic Lake	170,600	170,600	170,600	N/A
Pyramid Lake	158,300	158,300	158,300	N/A
Silverwood	20,000	20,000	20,000	N/A
Lake Perris	5,400	5,400	5,400	N/A
SUBTOTAL	354,300	354,300	354,300	
TOTAL	673,500	673,500	673,500	