



• Water Surplus and Drought Management Plan

Summary

This is the third monthly report on developing demand and supply conditions for calendar year (CY) 2012.

Based on the current SWP Table A allocation of 60 percent, Metropolitan anticipates 1.148 million acre-feet (MAF) of supplies from the SWP system. Supplies from the Colorado River Aqueduct (CRA) system for CY 2012 are expected to total 905 thousand acre-feet (TAF). This brings the total water supply available to Metropolitan from both the SWP and CRA systems to 2.053 MAF without using storage to augment supplies. Member agency demands, obligations and losses are based on a modeled forecast of 2012 demands under a range of historical hydrologic conditions. A reasonable range of agency demands, obligations and losses for CY 2012 is expected to be 1.650 to 2.000 MAF, this range represents approximately the middle 50 percent of all modeled outcomes. The balance between water supplies and demands results in 403 TAF of supplies available to store in the low demand range to 53 TAF in the high demand range.

2012 Supply and Demand Balance	Low Demand	High Demand
CRA Supply	905,000	905,000
SWP Supply	1,148,000	1,148,000
Total Supply	2,053,000	2,053,000
Member Agency Demand	1,650,000	2,000,000
Net to Storage	403,000	53,000

Attachments

[Attachment 1: WSDM Storage Levels](#)

Detailed Report

This report provides the Board with an update on developing WSDM conditions, and identifies potential actions that may be required to balance water supplies and demands. The report is structured to show:

- current estimates of water supplies available to the service area from the CRA and SWP systems,
- current estimates of the range of total demands on Metropolitan, including member agency demands, obligations, and losses,
- the amount of additional water supply need, or potential water available for storage, resulting from the balance between supplies and demands, and
- the capability of Metropolitan storage resources to manage the projected conditions.

Colorado River Aqueduct

The current estimate of CRA supplies for CY 2012 is 905 TAF. CRA supplies consist of Metropolitan's Basic Apportionment (550 TAF), and other CRA supply programs such as the Palo Verde Irrigation District (PVID) Land Following program. The Lower Colorado Water Supply Project was revised from 3 TAF to 6 TAF based on information provided by the Bureau of Reclamation, resulting in an additional 3 TAF of supplies from the CRA compared to last month.

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2012 Colorado River Aqueduct Supply	
Basic Apportionment	550,000
IID/MWD Conservation Program	85,000
PVID Land Following	77,000
Transfer to SDCWA (IID Transfer and Canal Lining)	171,000
Canal Lining Water to MWD	16,000
Lower Colorado Water Supply Project	6,000
Agricultural Adjustments	0
CRA Supply	905,000

State Water Project System

The SWP Table A allocation for 2012 has not changed since DWR announced an initial 60 percent Table A allocation in November 2011. Under a 60 percent SWP Table A allocation, Metropolitan anticipates 1.148 MAF of total supplies from the SWP; this total includes 1 TAF from the Port Hueneme transfer agreement.

2012 State Water Project Supply	
Table A	1,147,000
Port Hueneme	1,000
SWP Supply	1,148,000

Demands, Obligations, and Losses

Member agency demands on Metropolitan include water deliveries to the member agencies, as well as water wheeled for the San Diego County Water Authority (SDCWA). Losses for 2012 are an estimate of Metropolitan distribution system losses of around 50 TAF. Currently, there are no outstanding obligations for 2012 that would place an additional demand for supplies on Metropolitan.

Member agency demands, obligations and losses are based on a modeled forecast of 2012 demands under a range of historical hydrologic conditions. A reasonable range of agency demands, obligations and losses for CY 2012 is expected to be 1.650 to 2.000 MAF; this range represents approximately the middle 50 percent of all modeled outcomes. This methodology also factored in anticipated changes in local supplies for CY 2012, as well as assumptions for near-term economic conditions.

2012 Member Agency Demands, Obligations, and Losses	Low Demand	High Demand
Total Demand*	1,650,000	2,000,000

* Middle 50 percent of model outcomes based on a range of historical hydrologic impacts with adjustments for near-term local supply and economic conditions.

Supply and Demand Balance

The total estimated water supply from the CRA and SWP systems is 2.053 MAF. The total of Metropolitan’s estimated demands, obligations, and losses is between 1.650 and 2.000 MAF. The balance between currently allocated water supplies and estimated demands results in 403 TAF of supplies available to store in the low demand range to 53 TAF of supplies available to store in the high demand range.

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2012 Supply and Demand Balance	Low Demand	High Demand
CRA Supply	905,000	905,000
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Total Supply	2,053,000	2,053,000
Member Agency Demand	1,650,000	2,000,000
Net to Storage	403,000	53,000

Storage

Metropolitan’s dry-year storage balance at the beginning of CY 2012 is currently estimated to have been 2.357 MAF. **Attachment 1** provides details on the storage balance and capacities of each of Metropolitan’s storage programs.

Under the current 60 percent SWP allocation, Metropolitan’s estimated capacity to deliver supplies into storage during CY 2012 is 535 TAF. Given the estimated CY 2012 put capacity, Metropolitan would be able to store the entire 403 TAF of available supplies under the low demand range; increasing Metropolitan’s dry-year storage balance to 2.778 MAF by the end of 2012. Conversely, on the high demand range, Metropolitan would store 53 TAF of available supplies; increasing Metropolitan’s dry-year storage balance slightly above 2.4 MAF. As water supply and demand conditions change throughout the year, the estimated end of year storage balance will be updated accordingly.

Key Considerations

As of February 6, statewide snowpack is well below average, at just 32 percent of normal to date. Despite the dry conditions, the California Department of Water Resources (DWR) has maintained the current 60 percent SWP Table A allocation. This has been largely due to the robust storage conditions in Lake Oroville and San Luis Reservoir going into 2012. If the current dry hydrologic conditions persist, DWR could potentially adjust the Table A allocation downward. Staff will continue to monitor and report on conditions affecting SWP supplies as the year progresses.

2012 WSDM Storage	1/1/2012 Storage Levels	CY 2012 Take Capacity*	CY 2012 Put Capacity*	Total Capacity
Colorado River Aqueduct Delivery System	403,000	403,000	200,000	1,524,000
Lake Mead ICS Account	379,000	379,000	200,000	1,500,000
Yuma Desalting Plant	24,000	24,000	0	24,000
State Water Project System	1,060,000	807,000	128,000	1,369,000
MWD SWP Carryover ¹	200,000	200,000	-60,000	140,000
Article 14b Carryover ²	42,000	42,000	-42,000	0
Castaic Lake (DWR Flex Storage)	154,000	154,000	0	154,000
Lake Perris (DWR Flex Storage)	65,000	65,000	0	65,000
Arvin Edison Storage Program	167,000	75,000	60,000	350,000
Semitropic Storage Program	245,000	161,000	105,000	350,000
Kern Delta Storage Program	142,000	65,000	50,000	250,000
Mojave Storage Program	45,000	45,000	15,000	60,000
In-Region Supplies and WSDM Actions	995,000	703,000	91,000	1,491,000
Diamond Valley Lake	786,000	606,000	24,000	810,000
Lake Mathews	142,000	64,000	40,000	182,000
Lake Skinner	37,000	3,000	7,000	44,000
IEUA/TVMWD (Chino Basin)	0	0	0	100,000
Long Beach (Cent. Basin)	6,000	6,000	0	13,000
Long Beach (Lakewood)	1,000	1,000	0	4,000
Foothill (Raymond and Monks Hill)	0	0	0	9,000
MWDOC (Orange County Basin)	17,000	17,000	16,000	66,000
Three Valleys (Live Oak)	2,000	2,000	0	6,000
Three Valleys (Upper Claremont)	1,000	1,000	1,000	3,000
Compton	0	0	0	2,000
Western	3,000	3,000	3,000	12,000
Cyclic - Upper San Gabriel	0	0	0	100,000
Cyclic - Three Valleys	0	0	0	40,000
Cyclic - Inland Empire Utilities Agency	0	0	0	100,000
Other Programs	525,000	139,000	116,000	1,134,000
Other Emergency Storage	334,000	0	0	334,000
Advance Delivery Account (DWCV)	191,000	139,000	116,000	800,000
Total	2,983,000	2,052,000	535,000	5,518,000
Emergency	626,000	0	0	0
Total WSDM Storage³	2,357,000	2,052,000	535,000	5,518,000

*Put and take capacity assumed under a 60% SWP Table A Allocation.

¹MWD SWP Carryover capacity is dependent on the SWP Table A Allocation. At 60% Table A allocation, Metropolitan can carryover 140,000 AF into 2013. Therefore, Metropolitan would need to withdraw 60,000 AF from MWD SWP Carryover in 2012.

²Article 14b Carryover must be withdrawn in 2012.

³Total WSDM Storage level is subject to change based on accounting adjustments.