



Report Water Resource Management Group

● Water Surplus and Drought Management Update *Conditions as of 2/25/2020*

Summary

This report provides a preliminary accounting of water supply, demand, and storage conditions for calendar year (CY) 2020. This report considers conditions as of February 25, 2020.

Dry hydrologic conditions persist in northern California. A record dry February is expected as no measureable rain has fallen and forecasts for the remainder of February show no precipitation. Because of the dry conditions, the State Water Project (SWP) Allocation remains at 15 percent. As for the Upper Colorado River Basin, despite an above normal snowpack, the precipitation and the runoff forecast are both tracking below normal.

A supply gap of 361 thousand acre-feet is currently projected given the preliminary demand estimate of 1.65 million acre-feet, the SWP allocation, and the Colorado River Aqueduct (CRA) supply estimate. With the current CRA supply estimate, a final SWP allocation of 35 percent would balance supply and demand without WSDM actions. Further increases to the SWP allocation are still possible, but will depend on improved hydrologic conditions. The Department of Water Resources, in its latest Allocation study, dated February 20, 2020, indicated that it can support a 40 percent allocation if the remainder of the year receives median hydrologic conditions. Should the allocation remain low, Metropolitan has ample dry-year storage available to satisfy the potential supply gap for 2020.

Purpose

Informational

Attachments

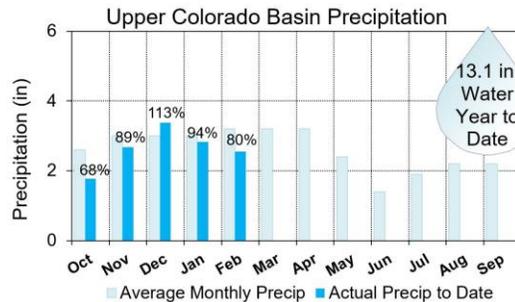
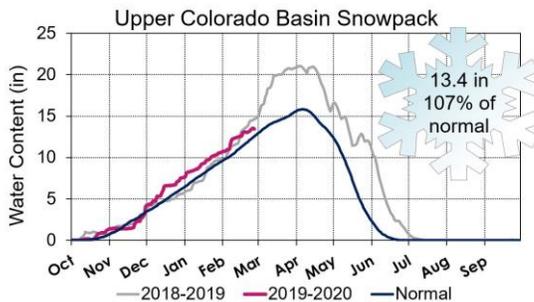
- Attachment 1: Projected 2020 WSDM Storage Detail (15% SWP allocation)
- Attachment 2: Agreements to Exchange or Return Stored Water and Cyclic Program Balances

Detailed Report

This Water Surplus and Drought Management (WSDM) report provides an overview of developing hydrologic conditions and estimated water supply and demand conditions for CY 2020.

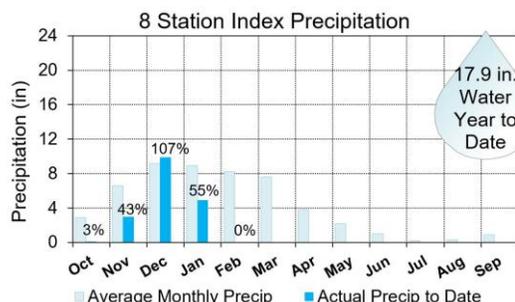
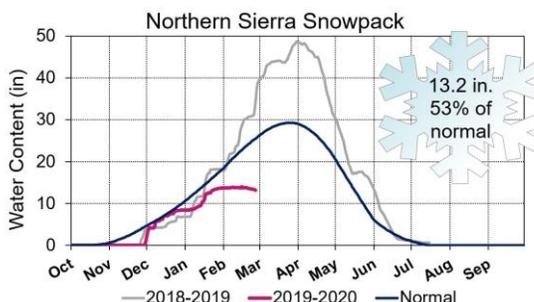
HYDROLOGIC CONDITIONS

Upper Colorado River Basin



- Snowpack measured roughly 107 percent of normal.
- Precipitation measured 13.1 inches or 90% of normal to date.
- Runoff forecasted at 8.56 MAF or 79% of normal for the water year.

Sacramento River Basin

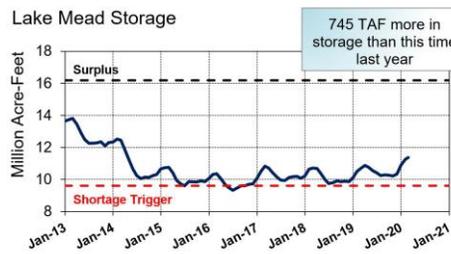


- Near record dry start in October and November.
- A record dry February is expected for the month. Precipitation to date remains below normal.

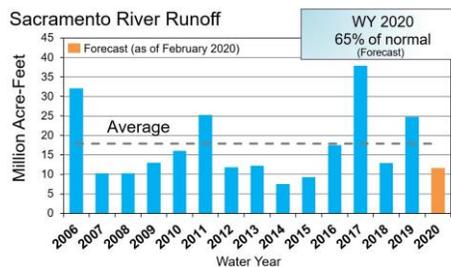
CRA Supplies	Acre-Feet
Basic Apportionment	550,000
IID/ MWD Conservation Program	105,000
PVID Fallowing Program	50,000
Exchange w/ SDCWA (IID/Canal Lining)	270,000
Exchange w/ USBR (San Luis Rey Tribe)	16,000
Lower Colorado Water Supply Project	9,000
Bard Seasonal Fallowing Program	5,000
Higher Priority Water Use Adjustment	0
Total CRA Supplies	1,005,000

SWP Supplies	Acre-Feet
Table A (15% SWP allocation)	287,000
Article 21	0
Port Hueneme ¹	0
Total SWP Supplies	287,000
Total Supplies (CRA + SWP)	1,292,000
(Prior to storage actions)	

¹ Rounded to the nearest thousand. Supply is 278 AF.



- Metropolitan's Lake Mead ICS account at the beginning of the calendar year is estimated at 994 thousand acre-feet. Final accounting will be completed in mid-May.



- SWP Allocation 15%**
- Further increases to the allocation will depend on future hydrologic conditions in northern California.

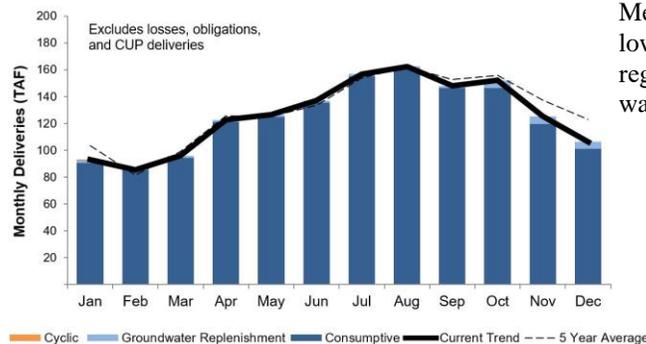
2020 WATER DEMANDS

Current Demand	Acre-Feet
Member Agency Consumptive ¹	1,489,000
Member Agency Replenishment	31,000
Coachella Valley Water District Agreement	50,000
Exchange w/ San Luis Rey Tribe	16,000
System and Storage Losses	66,000
Cyclic Deliveries ²	1,000
Total Demands	1,653,000

¹ Includes exchange w/ SDCWA (IID/Canal Lining) and CUP sales.

² These deliveries complete cyclic orders made in 2019.

2020 Demand Estimate



- Demands on Metropolitan remain low due to the region's efforts in water-use efficiency.

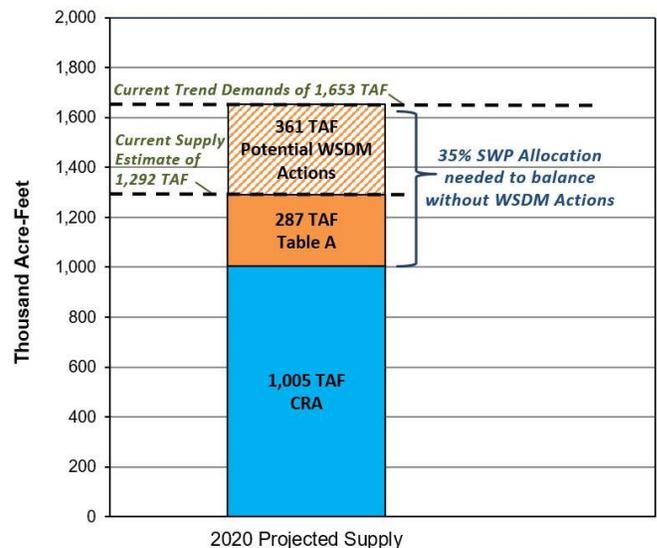
MANAGING SUPPLIES AND DEMANDS

Supply/Demand Balance	Acre-Feet
Total Supplies	1,292,000
Total Demands	1,653,000
Current Balance Estimate	-361,000

WSDM Strategies/Actions

- 2019 Supply Management:** A portion of Metropolitan's SWP water supply was not delivered due to conveyance constraints in 2019. Metropolitan is working with DWR to take delivery of that supply in 2020.
- SWP 2019-2020 Carryover:** Metropolitan is closely monitoring San Luis Reservoir levels. If it is determined that the reservoir will fill, Metropolitan will take actions, to the extent possible, that would safeguard water supply and minimize costs.
- Cyclic Deliveries:** Ceased until further notice.

Balancing Supply and Demand



2020 WSDM Storage Detail

WSDM Storage	1/1/2020 Estimated Storage Levels	CY 2020 Take Capacity ¹	2020 Total Storage Capacity
Colorado River Aqueduct Delivery System	994,000	51,000	1,739,000
Lake Mead ICS	994,000	51,000 ²	1,739,000
State Water Project System	1,159,000	613,000	1,879,000
MWD SWP Carryover ³	297,000	297,000	350,000
DWCV SWP Carryover ³			
Castaic Lake (DWR Flex Storage)	154,000	154,000	154,000
Lake Perris (DWR Flex Storage)	65,000	65,000	65,000
Arvin Edison Storage Program	143,000	0 ⁴	350,000
Semitropic Storage Program	265,000	46,000	350,000
Kern Delta Storage Program	189,000	40,000	250,000
Mojave Storage Program	19,000	4,000	330,000
AVEK Storage Program	27,000	7,000	30,000
In-Region Supplies and WSDM Actions	1,044,000	644,000	1,246,000
Diamond Valley Lake	796,000	539,000	810,000
Lake Mathews and Lake Skinner	190,000	79,000	226,000
Conjunctive Use Programs (CUP) ⁵	58,000	26,000	210,000
Other Programs	677,000	83,000	1,181,000
Other Emergency Storage	381,000	0	381,000
DWCV Advanced Delivery Account	296,000	83,000	800,000
Total	3,874,000	1,391,000	6,045,000
Emergency	750,000	0	750,000
Total WSDM Storage (AF) ⁶	3,124,000	1,391,000	5,295,000

¹ Take capacity assumed under a 15% SWP Table A Allocation. Storage program losses included where applicable.

² The 51 TAF would utilize the full capacity of the Colorado River Aqueduct if needed. Take capacity depends on higher priority water usage and Colorado River Aqueduct capacity.

³ Total Storage Capacity varies year to year based on prior year remaining balance added to current year contractual limits.

⁴ Take amounts could depend on exchange capabilities.

⁵ Total of all CUP programs including IEUA/TVMWD (Chino Basin); Long Beach (Central Basin); Long Beach (Lakewood); Foothill (Raymond and Monk Hill); MWDOC (Orange County Basin); Three Valleys (Live Oak); Three Valleys (Upper Claremont); and Western.

⁶ Total WSDM Storage level subject to change based on accounting adjustments.

Agreements to Exchange or Return Stored Water

	Future Returns
Unbalanced Exchanges with Other SWP Contractors ¹	0 ²
California ICS Agreement – IID ³	168,000
Storage and Interstate Release Agreement with Southern Nevada Water Authority ⁴	330,000
Total (AF)	498,000 ⁵

¹ This includes water managed within Metropolitan’s service area for Dudley Ridge Water District, a SWP contractor. The obligation is part of an unbalanced exchange under the MWDOC/IRWD Coordinated Operating Agreement. This water is to be returned by December 31, 2022.

² Rounded to the nearest thousand. Remaining balance of approximately 300 AF.

³ IID can request return in any year, conditional on whether or not Metropolitan is implementing a Water Supply Allocation Plan.

⁴ Up to 30,000 AF per year beginning no earlier than 2022.

⁵ Subject to change based on accounting adjustments.

Cyclic Program Activity

CY	Starting Balance (AF)	CY Actions (AF)				Ending Balance (AF)
		Cyclic Pre-Delivery	Cyclic Cost-Offset Pre-Delivery	Total Pre-Delivery	Scheduled Sale	
2019	49,000	144,000	19,000	163,000	90,000	122,000
2020 ¹	122,000	1,000 ²	0	1,000	33,000	90,000

¹ Projected cyclic program activity for the year. Subject to change.

² These deliveries complete cyclic orders made in 2019.