



● Water Surplus and Drought Management Update *Conditions as of 1/26/2021*

Summary

This report provides an accounting of water supply, demand, and storage conditions for calendar year (CY) 2021. This report considers conditions as of January 26, 2021.

The current SWP allocation is 10 percent of Table A. Snowpack and precipitation conditions in the Northern Sierras continues to be well below normal. DWR will track precipitation and operational conditions that could lead to adjustments to the SWP allocation in the following months.

The current estimate of Colorado River supplies for CY 2021 is just over 1 million acre-feet. The United States Bureau of Reclamation released the January 24-month study which is projecting Lake Mead’s water elevation to fall below the shortage trigger level at the end of the calendar year. Should the August 24-month study continue to show the end-of-year Lake Mead elevation below this trigger, the Secretary of Interior will call for the first ever shortage declaration for Colorado River system for CY 2022. As a result, a reduced amount of water would be available for Arizona, Nevada, and Mexico in 2022.

The current demand estimate is 1.63 million acre-feet. This results in a supply/demand gap of 430 thousand acre-feet given the 10 percent SWP allocation and the Colorado River Aqueduct (CRA) supply estimate. Metropolitan will satisfy any potential supply/demand gap through use of additional imported water supplies that may develop, use of storage reserves, and other available WSDM actions.

Purpose

Informational

Attachments

- Attachment 1: Projected 2021 WSDM Storage Detail (10 percent SWP allocation)
- Attachment 2: Agreements to Exchange or Return Stored Water and Cyclic Program Balances

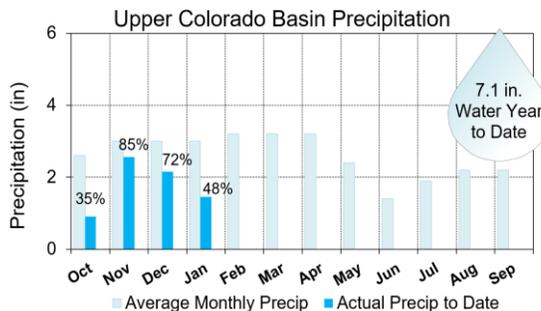
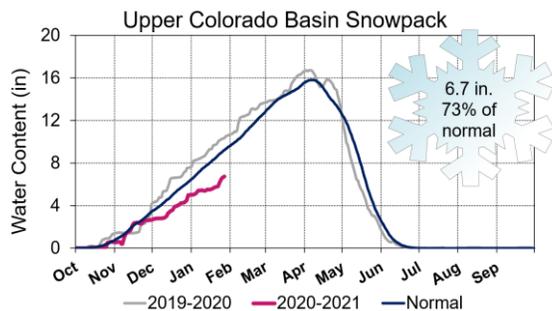
Detailed Report

This Water Surplus and Drought Management (WSDM) report provides an overview of developing hydrologic conditions and estimated water supply and demand conditions for CY 2021.

HYDROLOGIC CONDITIONS

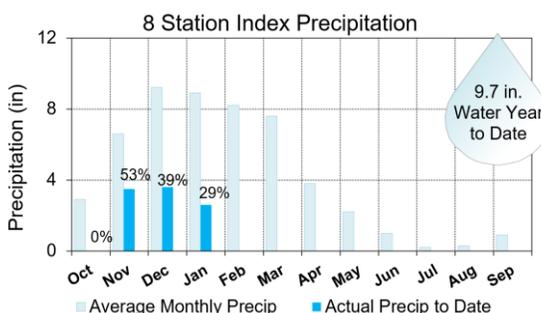
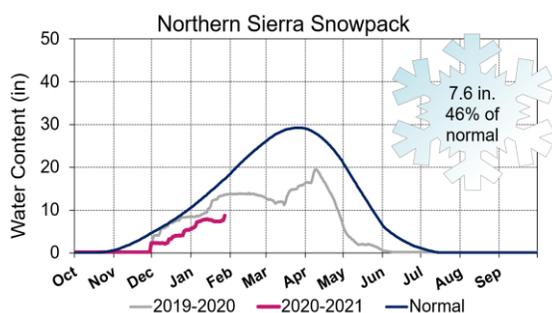
Conditions as of 1/26/2021

Upper Colorado River Basin



- Snowpack measured 73 percent of normal.
- Precipitation measured 7.1 inches or 64 percent of normal water year to date.

Sacramento River Basin



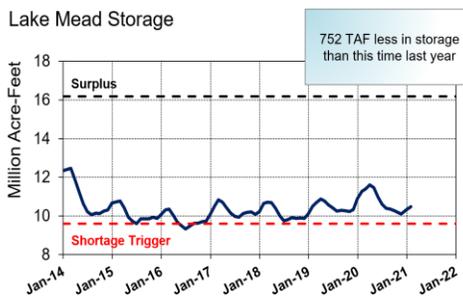
- Snowpack measured 46 percent of normal.
- Precipitation measured 9.7 inches or 37 percent of normal water year to date.

CRA Supplies	Acre-Feet
Basic Apportionment	550,000
IID/ MWD Conservation Program	105,000
PVID Fallowing Program	40,000
Exchange w/ SDCWA (IID/Canal Lining)	283,000
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 ¹	0
Total CRA Supplies	1,008,000

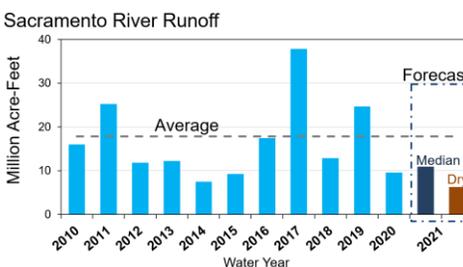
¹ Final adjustment could vary by more than 100 TAF.

SWP Supplies	Acre-Feet
Table A (10% SWP allocation)	191,000
Article 21	0
Port Hueneme ¹	0
SWP Transfers	0
Total SWP Supplies	191,000
Total Supplies (CRA + SWP)	1,199,000
(Prior to storage actions)	

¹ Rounded to the nearest thousand. Supply is 185 AF.



- Lake Mead storage is currently at 10.47 MAF (elevation 1085.5 feet). USBR's January 24-month study projects Lake Mead water elevation to decline in the next two years. Any potential supply impacts would occur next year.



- **SWP Allocation 10%**
- Changes to the allocation are possible depending on hydrologic conditions in northern California.
- The Sacramento River runoff is forecasted to be 61% of average under normal conditions for the water year.
- The Sacramento River runoff is forecasted to be 35% of average under dry conditions. DWR considers dry conditions when setting the SWP allocation

2021 WATER DEMANDS

Current Demand	Acre-Feet
Member Agency Consumptive ¹	1,491,000
Member Agency Replenishment	22,000
Coachella Valley Water District Agreement	50,000
Exchange w/ San Luis Rey Tribe	16,000
System and Storage Losses	50,000
Cyclic Deliveries	0
Total Demands	1,629,000

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

2021 Demand Estimate



- With the dry conditions to date, 2021 demands are projected to be slightly higher than the 5-year average.

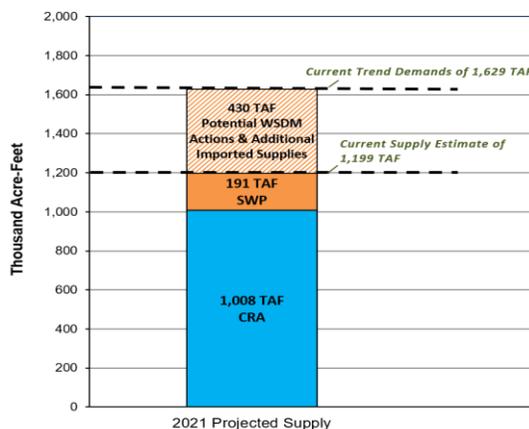
MANAGING SUPPLIES AND DEMANDS

Supply/Demand Balance	Acre-Feet
Total Supplies	1,199,000
Total Demands	1,629,000
Current Balance Estimate	-430,000

WSDM Strategies/Actions

- **Dry-Year WSDM Actions:** Metropolitan is monitoring supply development and updated demand projections. Appropriate WSDM actions will be taken to satisfy any supply/demand gap.

Balancing Supply and Demand



2021 WSDM Storage Detail

WSDM Storage	1/1/2021 Estimated Storage Levels	CY 2021 Take Capacity ¹	2021 Total Storage Capacity
Colorado River Aqueduct Delivery System	1,294,000	147,000	1,657,000
Lake Mead ICS	1,294,000	147,000 ²	1,657,000
State Water Project System	1,052,000	506,000	1,879,000
MWD SWP Carryover ³	207,000	207,000	350,000
DWCV SWP Carryover ³			
MWD Articles 14(b) and 12(e)	0	0	N/A
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	142,000	0 ⁴	350,000
Semitropic Storage Program	261,000	45,000	350,000
Kern Delta Storage Program	177,000	35,000	250,000
Mojave Storage Program	19,000	0	330,000
AVEK Storage Program	27,000	0	30,000
In-Region Supplies and WSDM Actions	872,000	499,000	1,246,000
Diamond Valley Lake	704,000	447,000	810,000
Lake Mathews and Lake Skinner	127,000	14,000	226,000
Conjunctive Use Programs (CUP) ⁵	41,000	38,000	210,000
Other Programs	694,000	64,000	1,181,000
Other Emergency Storage	381,000	0	381,000
DWCV Advanced Delivery Account	313,000	64,000	800,000
Total	3,912,000	1,216,000	5,963,000
Emergency	750,000	0	750,000
Total WSDM Storage (AF) ⁶	3,162,000	1,216,000	5,213,000

¹ Take capacity assumed under a 10 percent SWP Table A Allocation. Storage program losses included where applicable.

² Take capacity based on planned maintenance activities and current CRA supply estimate.

³ Total storage capacity varies year to year based on prior year remaining balance added to current year contractual limits.

⁴ Take amounts dependent 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 ¹
California ICS Agreement – IID ²	164,000
Storage and Interstate Release Agreement with Southern Nevada Water Authority ³	330,000
Total (AF)	494,000 ⁴

¹ Rounded to the nearest thousand.

² IID can request return in any year, conditional on whether or not Metropolitan is implementing a Water Supply Allocation Plan.

³ Up to 30,000 AF per year beginning no earlier than 2022.

⁴ 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	Sale Out of Cyclic	
2019	50,000	147,000	19,000	166,000	91,000	125,000
2020	125,000	2,000	0	2,000	50,000	77,000
2021 ¹	77,000	0	0	0	32,000	45,000

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