



• Water Surplus and Drought Management Update *Conditions as of 2/23/2021*

Summary

This report provides an accounting of water supply, demand, and storage conditions for calendar year (CY) 2021. This report considers conditions as of February 23, 2021.

The current State Water Project (SWP) allocation is at 10 percent of Table A. The latest SWP allocation study released by the Department of Water Resources in February factored in late January storms that helped support the allocation. Overall, snowpack and precipitation conditions in the Northern Sierra continue to be well below normal. Below normal hydrologic conditions also persist in the Upper Colorado River Basin.

The current demand estimate is 1.57 million acre-feet. This results in a supply/demand gap of 375 thousand acre-feet given the current 10 percent SWP allocation and the Colorado River Aqueduct (CRA) supply estimate. Some of Metropolitan’s dry-year WSDM strategies to satisfy the supply/demand gap include initiating withdrawals from its SWP Groundwater Banking Programs and withdrawing from its SWP flexible storage account. In addition, Metropolitan is in discussion with the State Water Contractors (SWC) Buyers Group regarding potential water transfers.

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

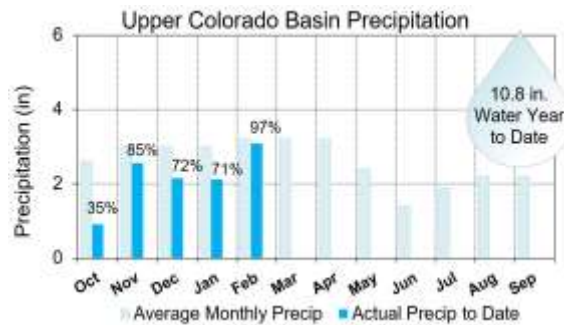
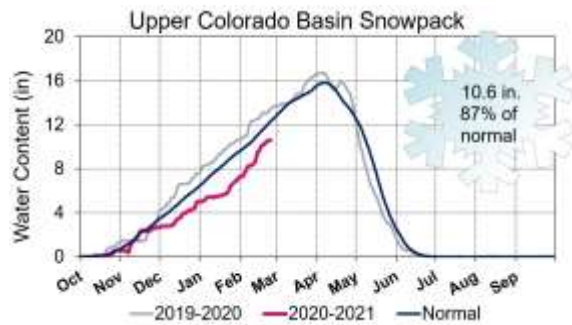
Detailed Report

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

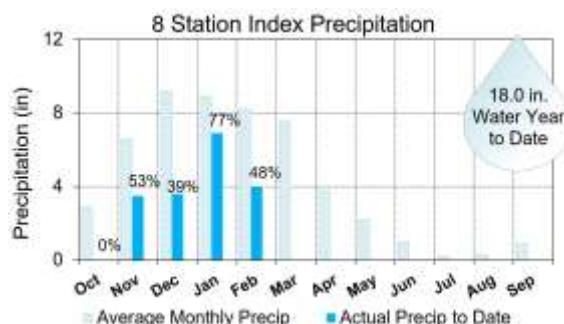
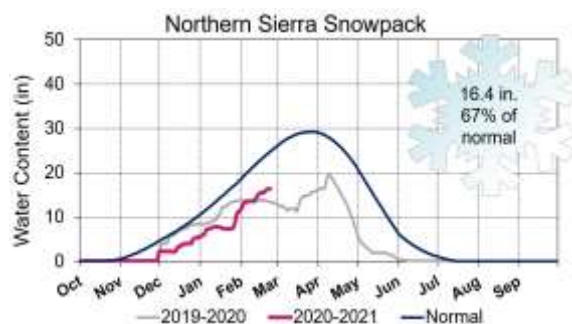
Conditions as of 2/23/2021

Upper Colorado River Basin



- Snowpack measured 87 percent of normal.
- Precipitation measured 10.8 inches or 76 percent of normal water year to date.

Sacramento River Basin



- Snowpack measured 67 percent of normal.
- Precipitation measured 18.0 inches or 52 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 range by more than plus or minus 100 TAF.

SWP Supplies	Acre-Feet
Table A (10% SWP allocation)	191,000
Article 21	0
Port Hueneme ¹	0
SWP Transfers ²	0
Total SWP Supplies	191,000

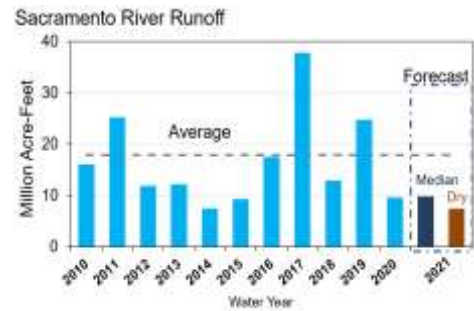
Total Supplies (CRA + SWP)	1,199,000
(Prior to storage actions)	

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

² SWC Buyers Group transfer supplies will be shown upon Board approval.



- Lake Mead storage is currently at 10.61 MAF (elevation 1087.1 feet). In February, USBR projected the Lake Mead water elevation would decline in the next two years. Should the USBR's August study continue to project that the January 1, 2022 level will fall below 1075 feet, the first ever shortage would be declared for CY 2022.



SWP Allocation 10%

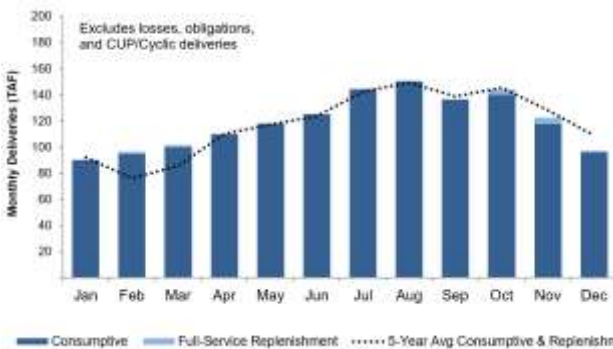
- Changes to the allocation are possible depending on hydrologic conditions in northern California.
- The Sacramento River runoff is forecasted to be 55% of average under normal conditions for the water year. It is forecasted to be 41% of average under dry conditions. DWR considers dry conditions when setting the SWP allocation.

2021 WATER DEMANDS

Current Demand	Acre-Feet
Member Agency Consumptive ¹	1,444,000
Member Agency Replenishment	14,000
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	1,574,000

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

2021 Demand Estimate



- With continued dry conditions, 2021 demands are projected to be slightly higher than the 5-year average.
- Higher February demands also due to member agency facility outages.

MANAGING SUPPLIES AND DEMANDS

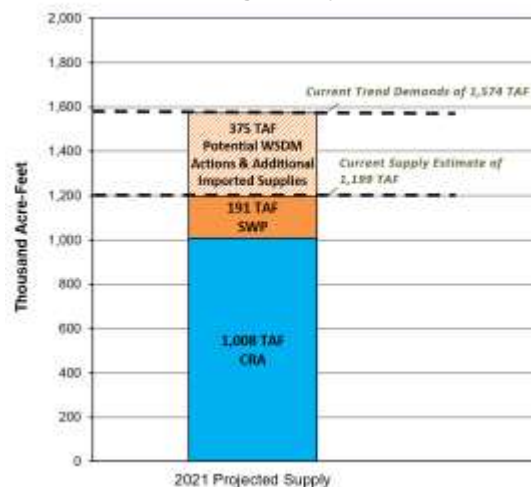
Supply/Demand Balance	Acre-Feet
Total Supplies	1,199,000
Total Demands	1,574,000
Current Balance Estimate	-375,000

Dry-Year WSDM Strategies/Actions

The following WSDM actions are being pursued or are underway to satisfy the estimated supply/demand gap.

- Metropolitan initiated the process to withdraw from its dry-year storage reserves in the SWP Banking Programs and SWP Flexible storage accounts.
- Metropolitan is in discussion with the SWC Buyers Group regarding potential water transfers.

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	118,000	1,657,000
Lake Mead ICS	1,294,000	118,000 ²	1,657,000
State Water Project System	1,052,000	502,000	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	36,000	350,000
Kern Delta Storage Program	177,000	40,000	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	1,183,000	5,963,000
Emergency	750,000	0	750,000
Total WSDM Storage (AF) ⁶	3,162,000	1,183,000	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.