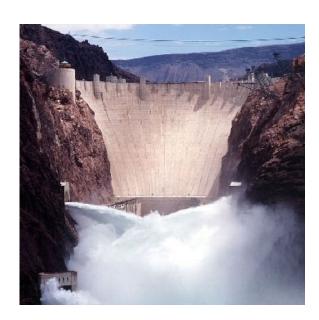
# COLORADO RIVER BASIN UPDATE AND STATUS

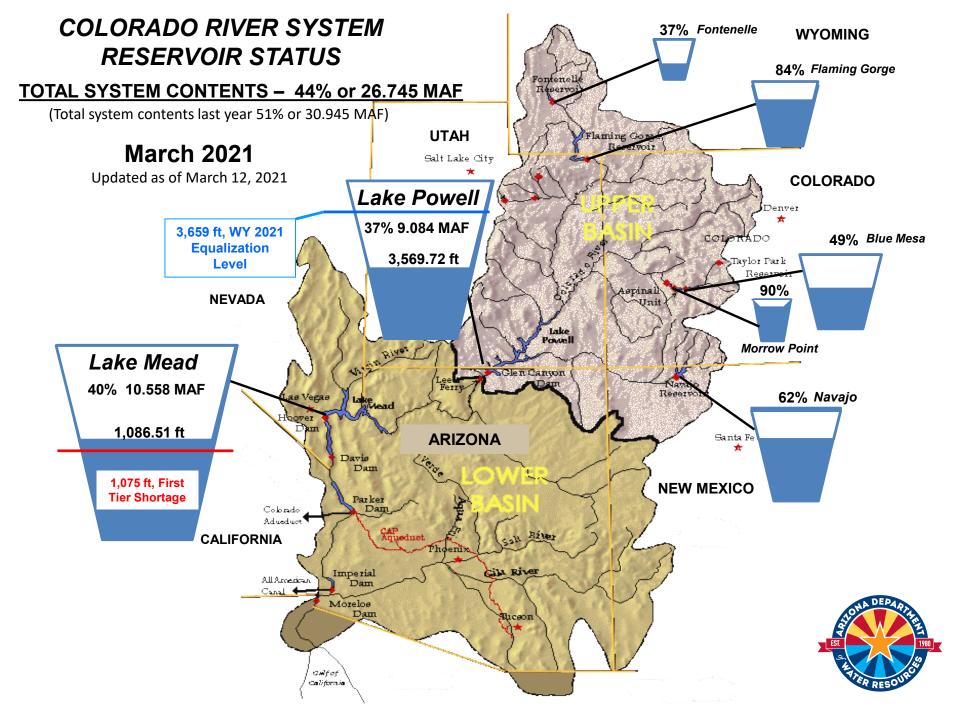
Presented to

## Arizona Water Banking Authority March 17, 2021





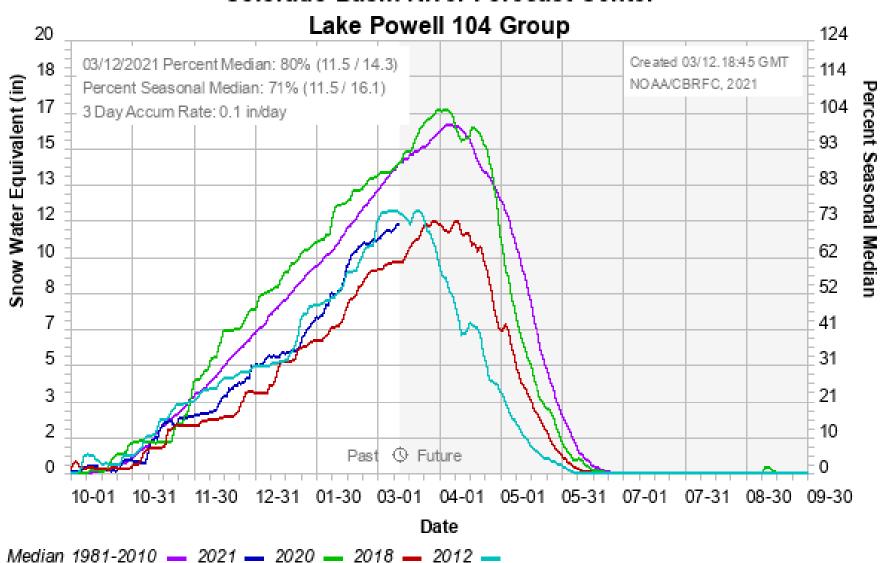




## Snow Water Equivalent

Conditions as of March 12, 2021

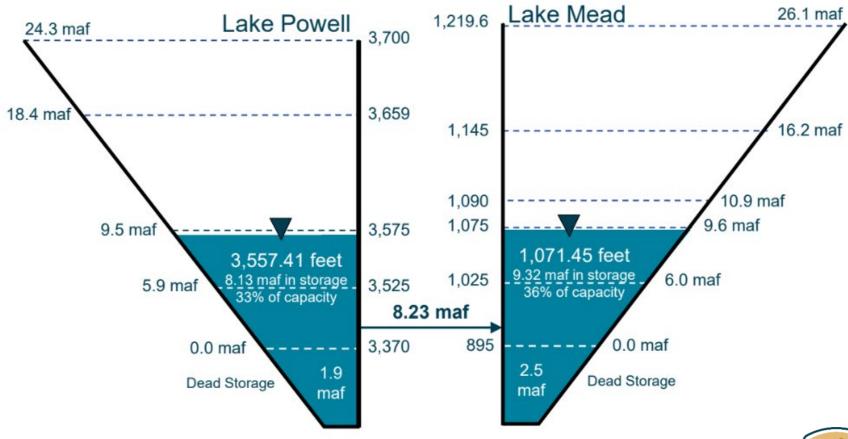
#### Colorado Basin River Forecast Center



## **End of Water Year 2021 Projections**

February 2021 24-Month Study Most Probable Inflow Scenario<sup>1</sup>

Based on a Lake Powell Unregulated Inflow Forecast of 5.15 maf (48% of average)



Not to Scale

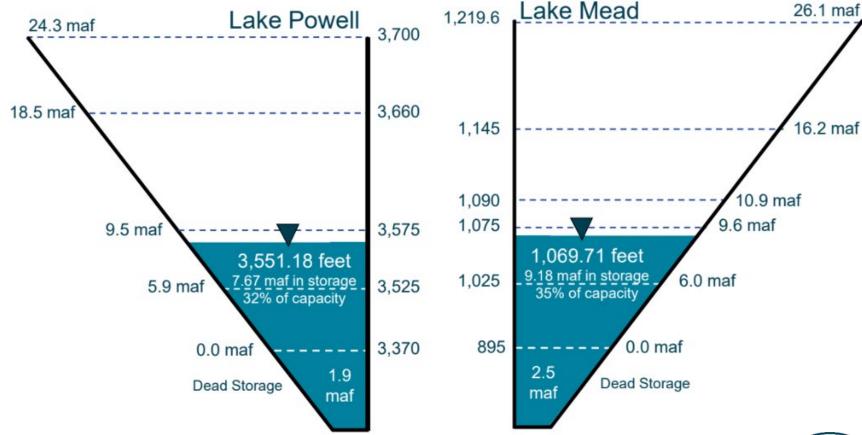


WY 2021 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 2/3/21.

## **End of Calendar Year 2021 Projections**

February 2021 24-Month Study Most Probable Inflow Scenario<sup>1</sup>

Based on a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY 2022



Not to Scale



WY 2021 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 2/3/21.

### **Lake Powell & Lake Mead Operational Table**

Operational Tiers for Water/Calendar Year 2021<sup>1</sup>

Lake Powell			Lake Mead		
Elevation	Operation According	Live Storage	Elevation	Operation According	Live Storage
(feet)	to the Interim Guidelines	(maf) <sup>2</sup>	(feet)	to the Interim Guidelines	(maf) <sup>2</sup>
	Equalization Tier		1,220	Flood Control Surplus or	25.9
3,700	Equalize, avoid spills	24.3		Quantified Surplus Condition	
	or release 8.23 maf			Deliver > 7.5 maf	
3,636 - 3,666		15.5 - 19.3	1,200		22.9
(2008-2026)		(2008-2026)	(approx.) <sup>3</sup>		(approx.) <sup>3</sup>
	Upper Elevation			Domestic Surplus or	
	Balancing Tier <sup>4</sup>			ICS Surplus Condition	
	Release 8.23 maf			Deliver > 7.5 maf	
	if Lake Mead < 1,075 feet,				
	balance contents with		1,145	<del></del>	15.9
	a min/max release of			Normal or	
	7.0 and 9.0 maf		1,105	ICS Surplus Condition	11.9
	7.6 d. d. 5.6		-,	Deliver ≥ 7.5 maf	
3,575		<del></del> 9.5		Beliver E 7.5 mar	
			1,075		9.4
	Mid-Elevation			Shortage Condition	
	Release Tier			Deliver 7.167 <sup>5</sup> maf	
	Release 7.48 maf,			Deliver 7.107 mai	
	if Lake Mead < 1,025 maf,		1,050		7.5
				Charters Candition	
	release 8.23 maf			Shortage Condition	
3,525		5.9		Deliver 7.083 <sup>6</sup> maf	
			1,025		5.8
			-,5-5		5.5
	Lower Elevation			Shortage Condition	
	Balancing Tier			Deliver 7.0 <sup>7</sup> maf	
	Balance contents with			Further measures may	
3,490	a min/max release of	4.0	1,000	be undertaken <sup>8</sup>	4.3
	7.0 and 9.0 maf	-	,		
3,370		0	895		0

#### Diagram not to scale

Lake Powell and Lake Mead operational tier determinations were based on November 2020 24-Month Study projections.

Acronym for million acre-feet

This elevation is shown as approximate as it is determined each year by considering several factors including Lake Powell and Lake Mead storage, projected Upper Basin and Lower Basin demands, and an assumed inflow.

Subject to April adjustments which may result in a release according to the Equalization Tier

of which 2.48 maf is appropriated to Arizona, 4.4 maf to California, and 0.287 maf to Nevada

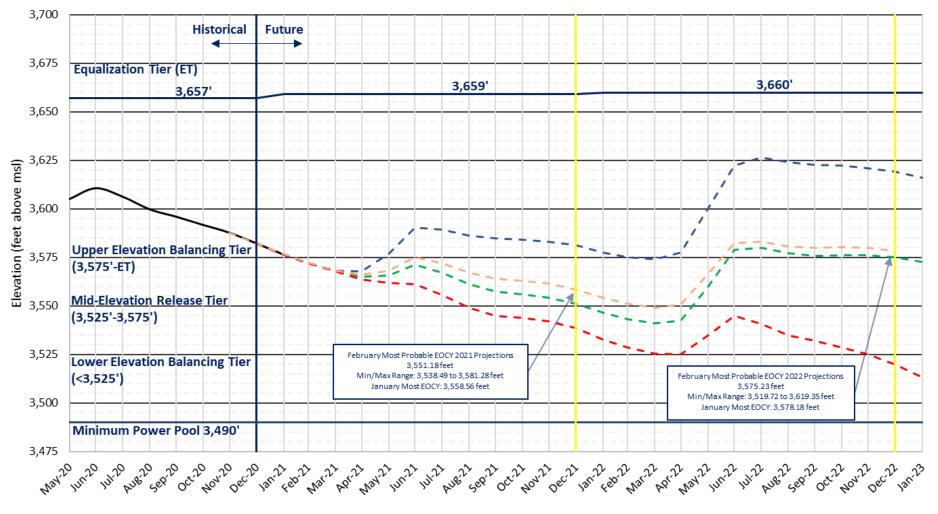
<sup>5</sup> of which 2.40 maf is appropriated to Arizona, 4.4 maf to California, and 0.283 maf to Nevada

of which 2.32 maf is appropriated to Arizona, 4.4 maf to California, and 0.280 maf to Nevada

Whenever Lake Mead is below elevation 1,025 feet, the Secretary shall consider whether hydrologic conditions together with anticipated deliveries to the Lower Division States and Mexico is likely to cause the elevation at Lake Mead to fall below 1,000 feet. Such consideration, in consultation with the Basin States, may result in the undertaking of further measures, consistent with applicable Federal law.

#### Lake Powell End of Month Elevations

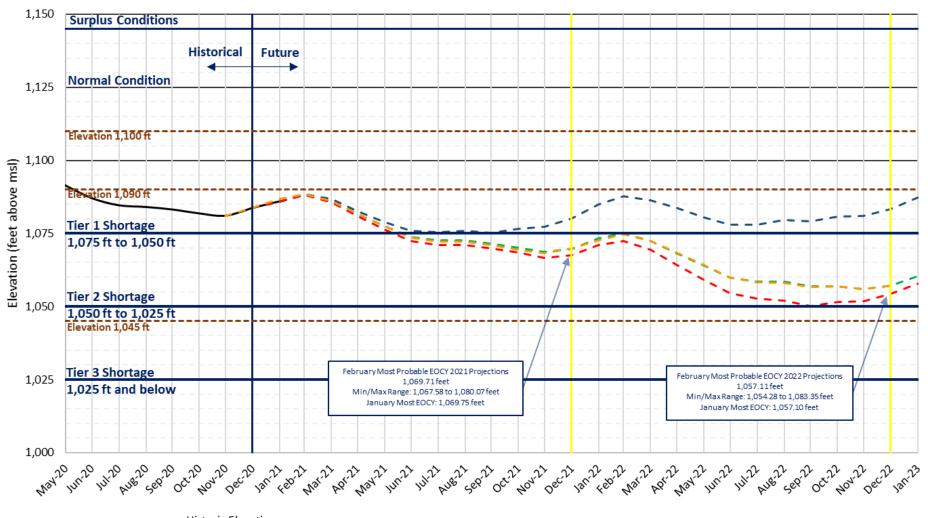
Historic and Projected based on February and January 2021 24-Month Study Inflow Scenarios



- Historic Elevations
- February 2021 Most Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY2022
- February 2021 Maximum Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 9.0 maf in WY2022
- - February 2021 Minimum Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY2022
- - January 2021 Most Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY2022

#### Lake Mead End of Month Elevations

Historic and Projected based on February and January 2021 24-Month Study Inflow Scenarios



- Historic Elevations
- - February 2021 Most Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY2022
- - February 2021 Maximum Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 9.0 maf in WY2022
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- - January 2021 Most Probable Inflow with a Lake Powell release of 8.23 maf in WY 2021 and 7.48 maf in WY2022

