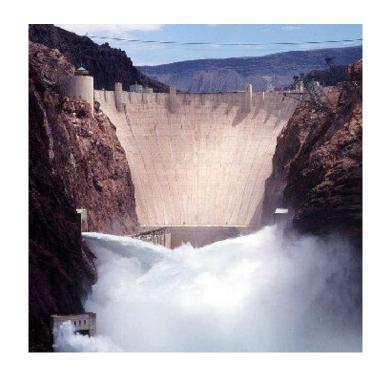
# COLORADO RIVER BASIN STATUS UPDATE

Presented to:

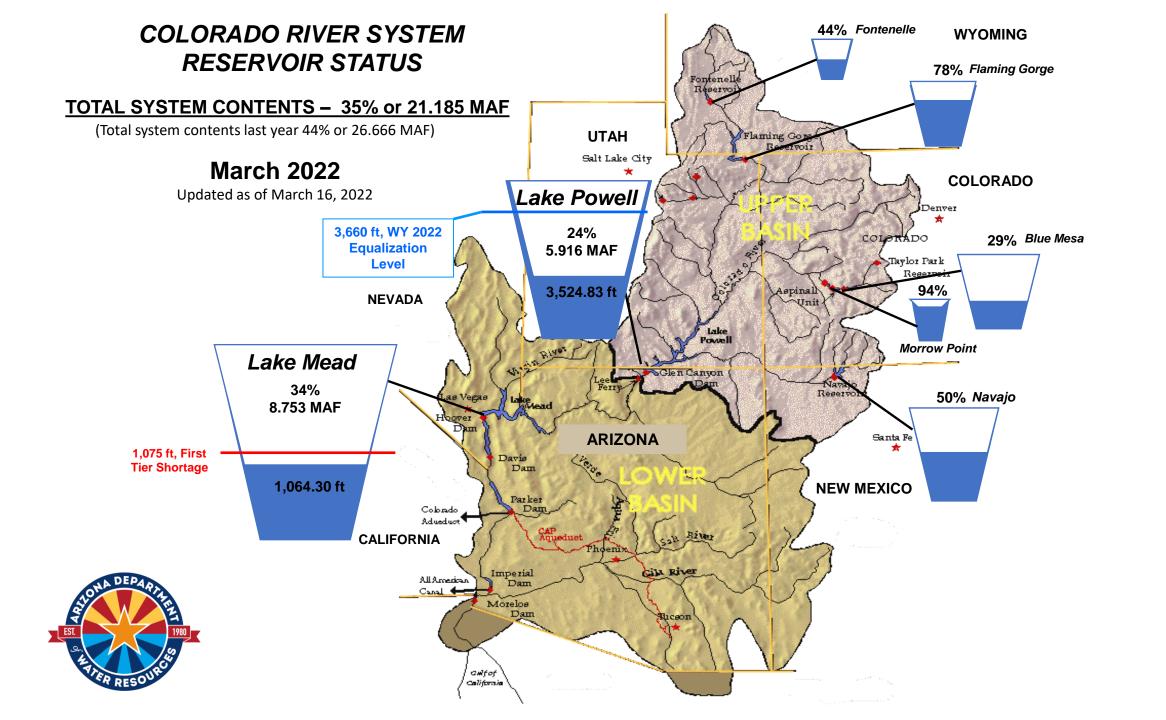
**Arizona Water Banking Authority** 

March 23, 2022

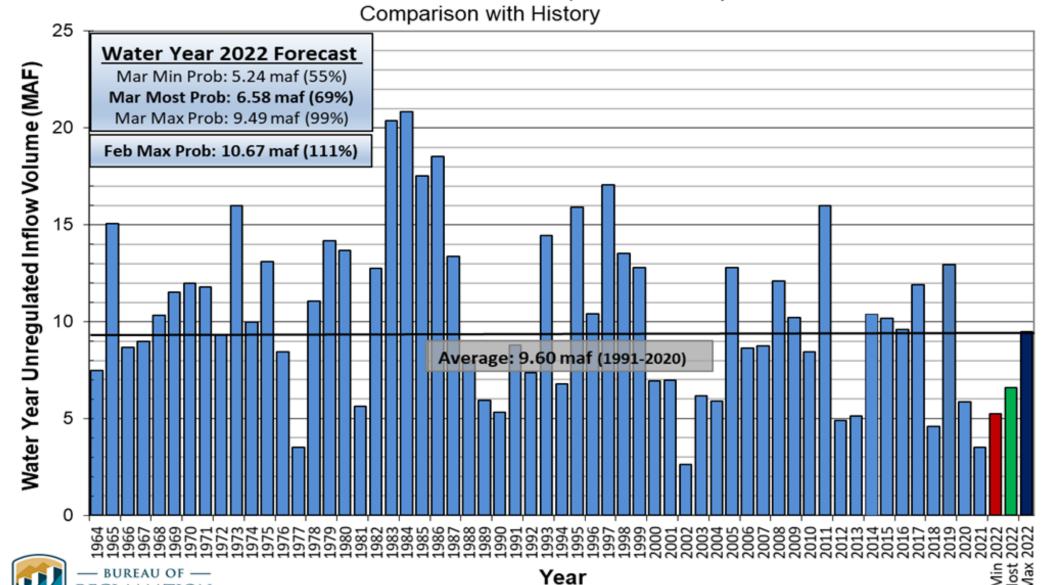








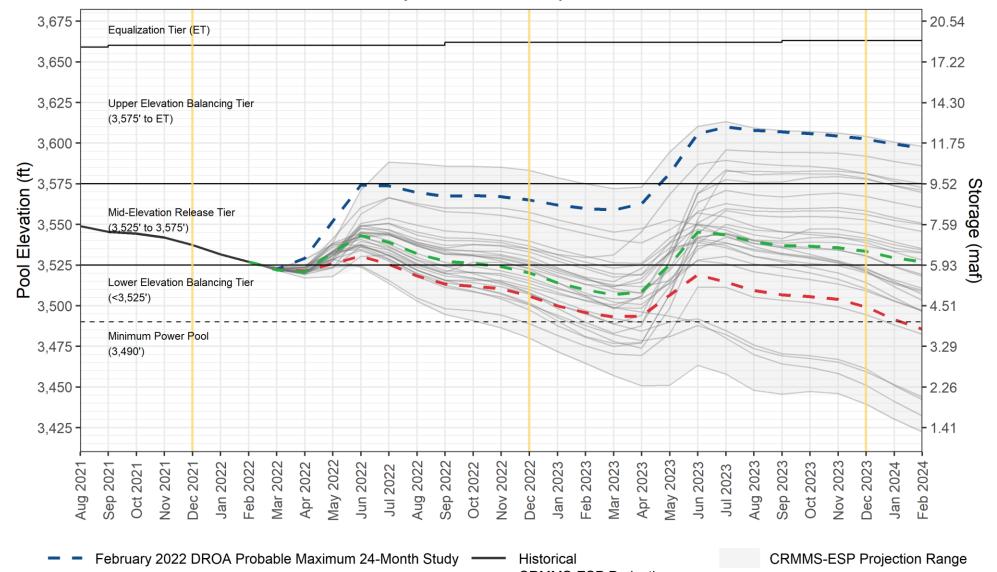
## Lake Powell Unregulated Inflow Water Year 2022 Forecast (issued March 3)



#### **Colorado Basin River Forecast Center** Lake Powell 104 Group 20 129 Created 03/17.17:24 GMT 03/17/2022 Percent Median: 95% (13.5 / 14.2) NOAA/CBRFC, 2022 Percent Seasonal Median: 87% (13.5 / 15.5) 18 3 Day Accum Rate: 0.0 in/day 118 17 107 15 97 Snow Water Equivalent (in) 8 64 54 7 43 32 5 21 3 2 11 Past © Future 07-01 10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-31 08-30 09-30 Date Median 1991-2020 \_ 2022 \_ 2021 \_

#### **Lake Powell End-of-Month Elevations**

CRMMS Projections from February and March 2022



#### **End of CY 2022 Projections**

Most Probable: 3,520.08 feet (23% full)

Probable Min: 3,505.84 feet

#### **End of CY 2023 Projections**

Most Probable: 3,533.37 feet (27% full)

Probable Min: 3,499.31 feet

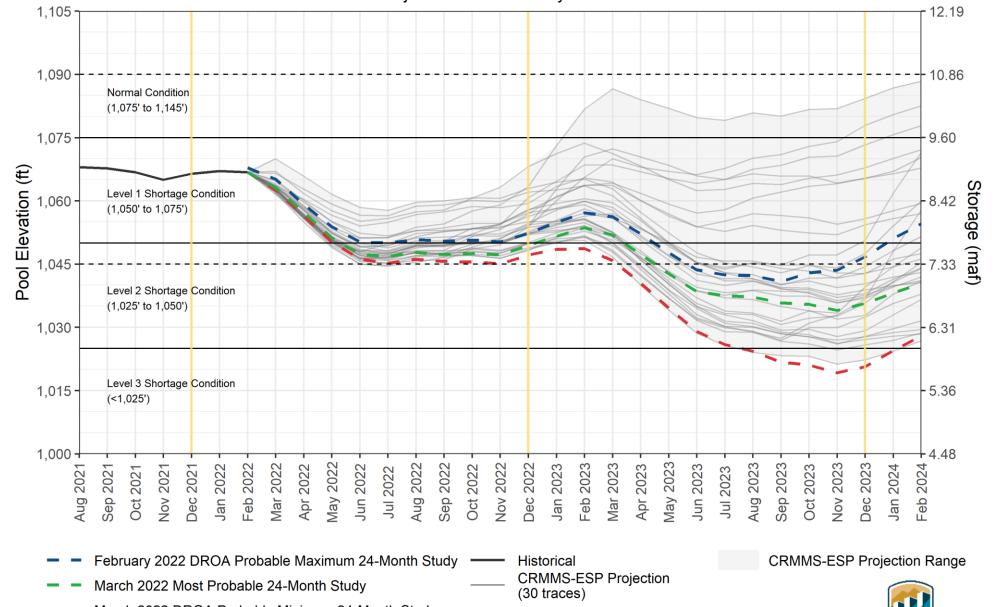
- March 2022 Most Probable 24-Month Study
- March 2022 DROA Probable Minimum 24-Month Study

CRMMS-ESP Projection (30 traces)



#### **Lake Mead End-of-Month Elevations**

CRMMS Projections from February and March 2022



#### **End of CY 2022 Projections**

Most Probable: 1,049.37 feet (29% full)

Probable Min: 1,047.10 feet

#### **End of CY 2023 Projections**

Most Probable: 1,035.63 feet (26% full)

Probable Min: 1.020.63 feet

March 2022 DROA Probable Minimum 24-Month Study



### Lower Basin – Lake Mead Percent of Traces with Event or System Condition Results from February 2022 CRMMS-ESP (values in percent)

Event or System Condition	2022	2023	2024	2025	2026	
Surplus Condition – any amount (Mead ≥ 1,145 ft)	0	0	0	0	0	
Surplus – Flood Control	0	0	0	0	0	
Normal or ICS Surplus Condition (Mead < 1,145 and > 1,075 ft)	0	0	7	7	7	
Recovery of DCP ICS / Mexico's Water Savings (Mead >/≥ 1,110 ft)	0	0	0	0	0	
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,090 and > 1,075 ft)	0	0	7	3	0	Tier 0
Shortage Condition – any amount (Mead ≤ 1,075 ft)	100	100	93	93	93	[
Shortage / Reduction — 1st level (Mead ≤ 1,075 and ≥ 1,050)	100	87	23	17	27	Tier 1
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,075 and > 1,050 ft)	100	87	23	17	27	
Shortage / Reduction − $2^{nd}$ level (Mead < 1,050 and ≥ 1,025)	0	13	67	47	27	
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,050 and > 1,045 ft)	0	13	10	13	7	Tier 2a
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,045 and > 1,040 ft)	. 0	0	57	33		
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,040 and > 1,035 ft)					20	Tion 2h
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,035 and > 1,030 ft)					20	Tier 2b
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,030 and ≥/> 1,025 ft)						
Shortage / Reduction – 3 <sup>rd</sup> level (Mead < 1,025)	0	0	3	30	40	Tier 3
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,025 ft)</td <td>0</td> <td>0</td> <td>3</td> <td>30</td> <td>40</td> <td></td>	0	0	3	30	40	

#### Notes:



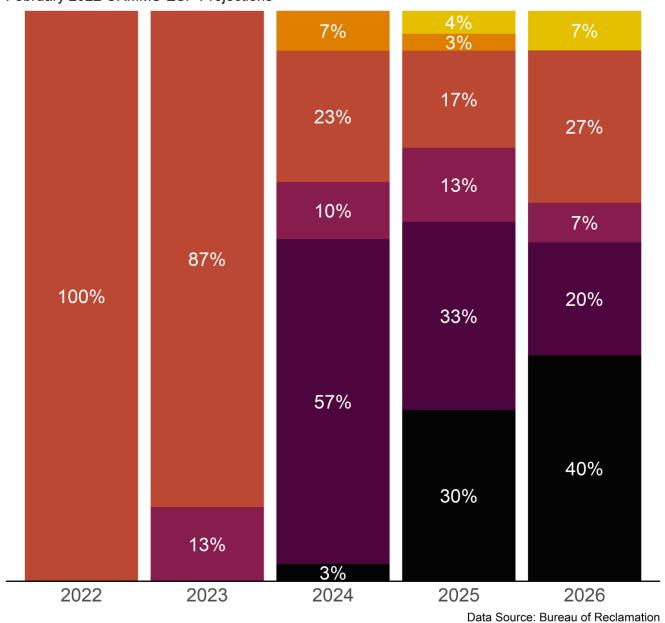
<sup>&</sup>lt;sup>1</sup> Modeled operations include the 2007 Interim Guidelines, Upper Basin Drought Response Operations, Lower Basin Drought Contingency Plan, and Minute 323, including the Binational Water Scarcity Contingency Plan.

<sup>&</sup>lt;sup>2</sup> Reservoir conditions for 2022-2026 were simulated using the February 2022 CRMMS in ensemble mode using the CBRFC unregulated inflow forecast ensemble dated February 3, 2022 (CRMMS-ESP).

<sup>&</sup>lt;sup>3</sup> Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.

<sup>&</sup>lt;sup>4</sup> Percentages shown may not sum to 100% due to rounding to the nearest percent.

# Percent of Traces with Event or System Condition - Lake Mead February 2022 CRMMS-ESP Projections



Operating Condition	Pool Elevation	AZ Reduction & Contribution
Surplus	≥ 1,145′	0 KAF
Normal	> 1,090' and < 1,145'	0 KAF
Tier 0	> 1,075' and ≤ 1,090'	192 KAF
Tier 1	≥ 1,050' and ≤ 1,075'	512 KAF
Tier 2a	> 1,045' and < 1,050'	592 KAF
Tier 2b	≥ 1,025' and ≤ 1,045'	640 KAF
Tier 3	< 1,025'	720 KAF

