COLORADO RIVER BASIN UPDATE AND STATUS

Presented to

Arizona Water Banking Authority

September 16, 2020

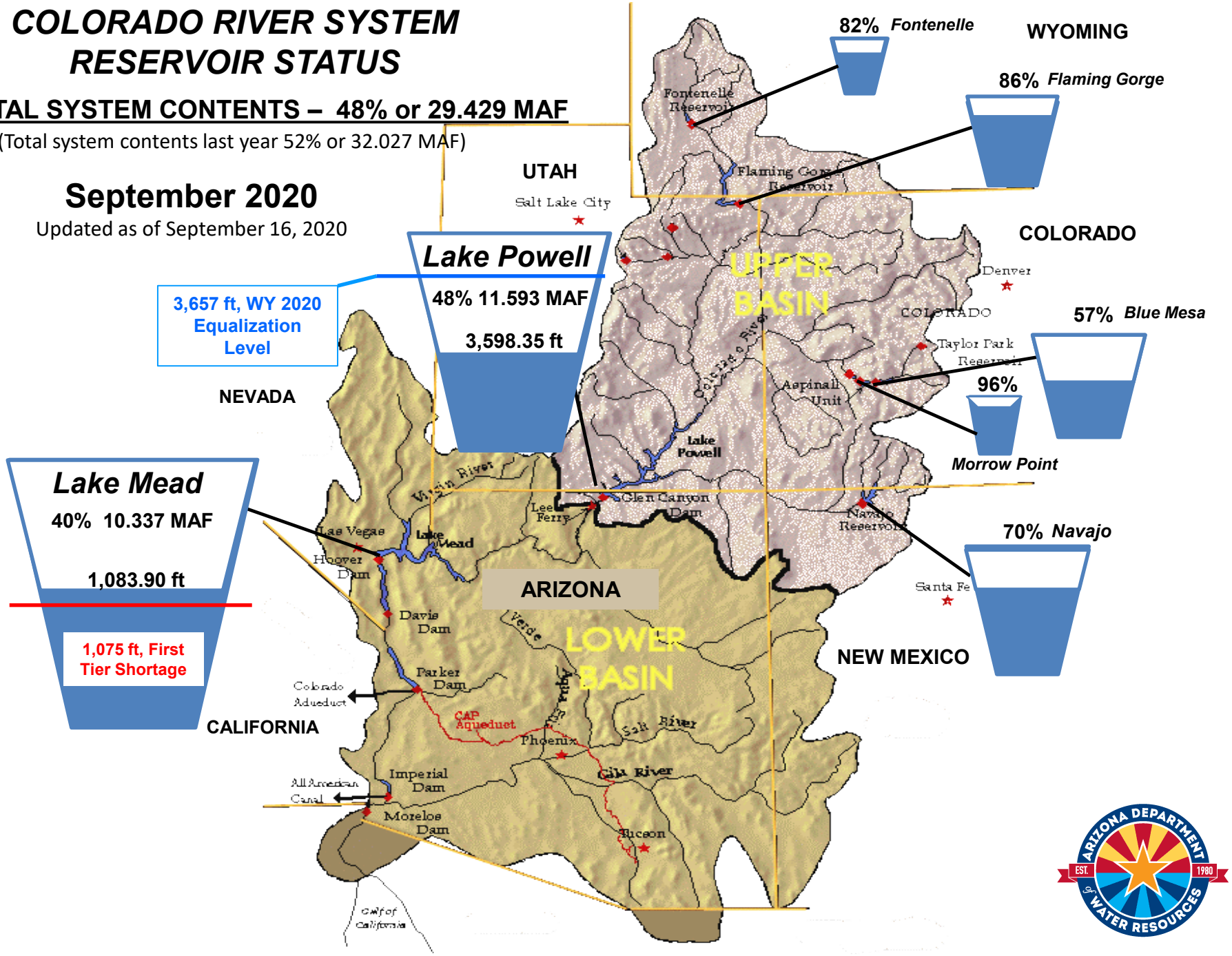
COLORADO RIVER SYSTEM RESERVOIR STATUS

TOTAL SYSTEM CONTENTS – 48% or 29.429 MAF

(Total system contents last year 52% or 32.027 MAF)

September 2020

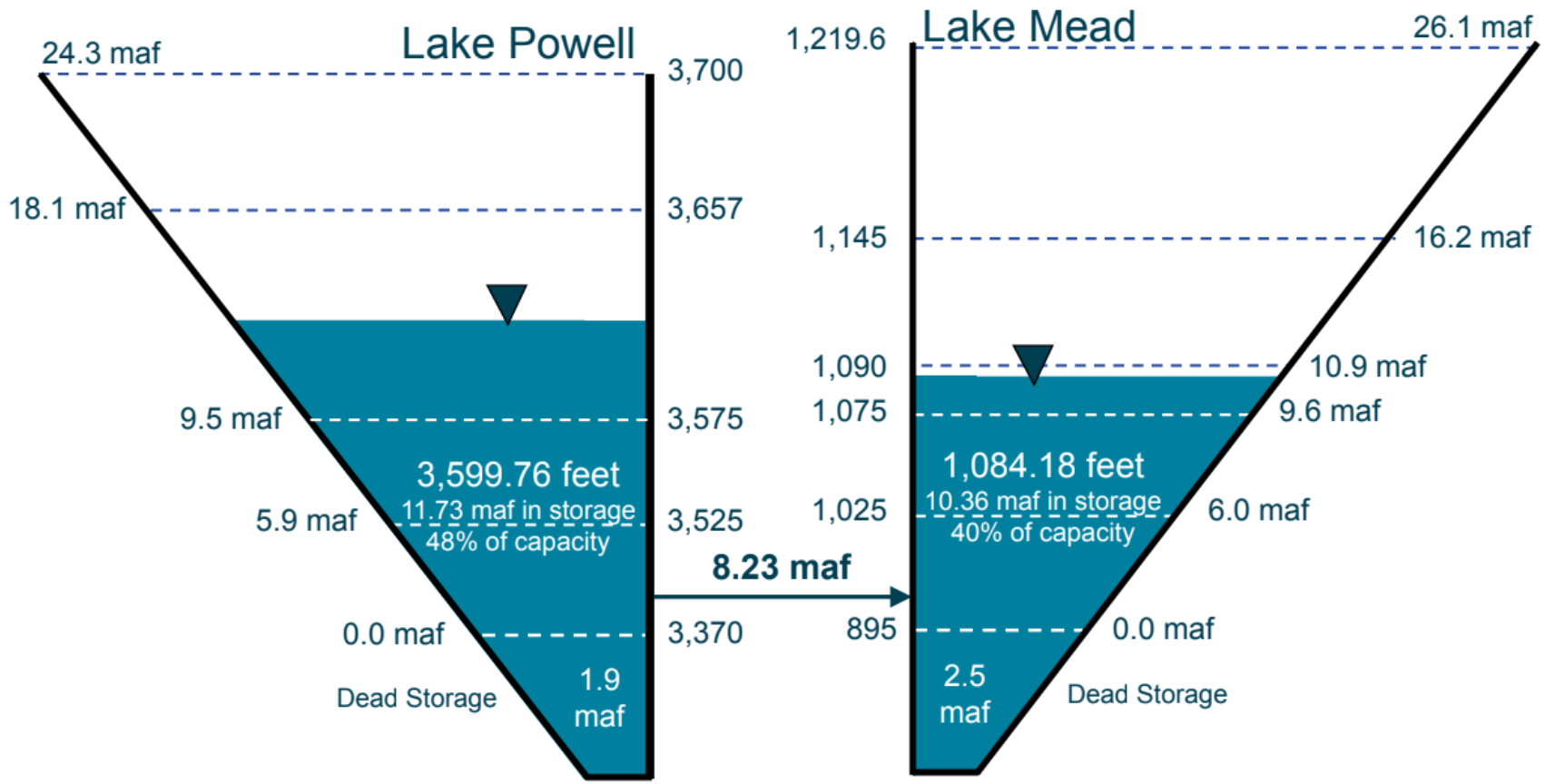
Updated as of September 16, 2020



End of Water Year 2020 Projections

August 2020 24-Month Study Most Probable Inflow Scenario[1]

Based on a Lake Powell Unregulated Inflow Forecast of 6.36 maf (59% of average)



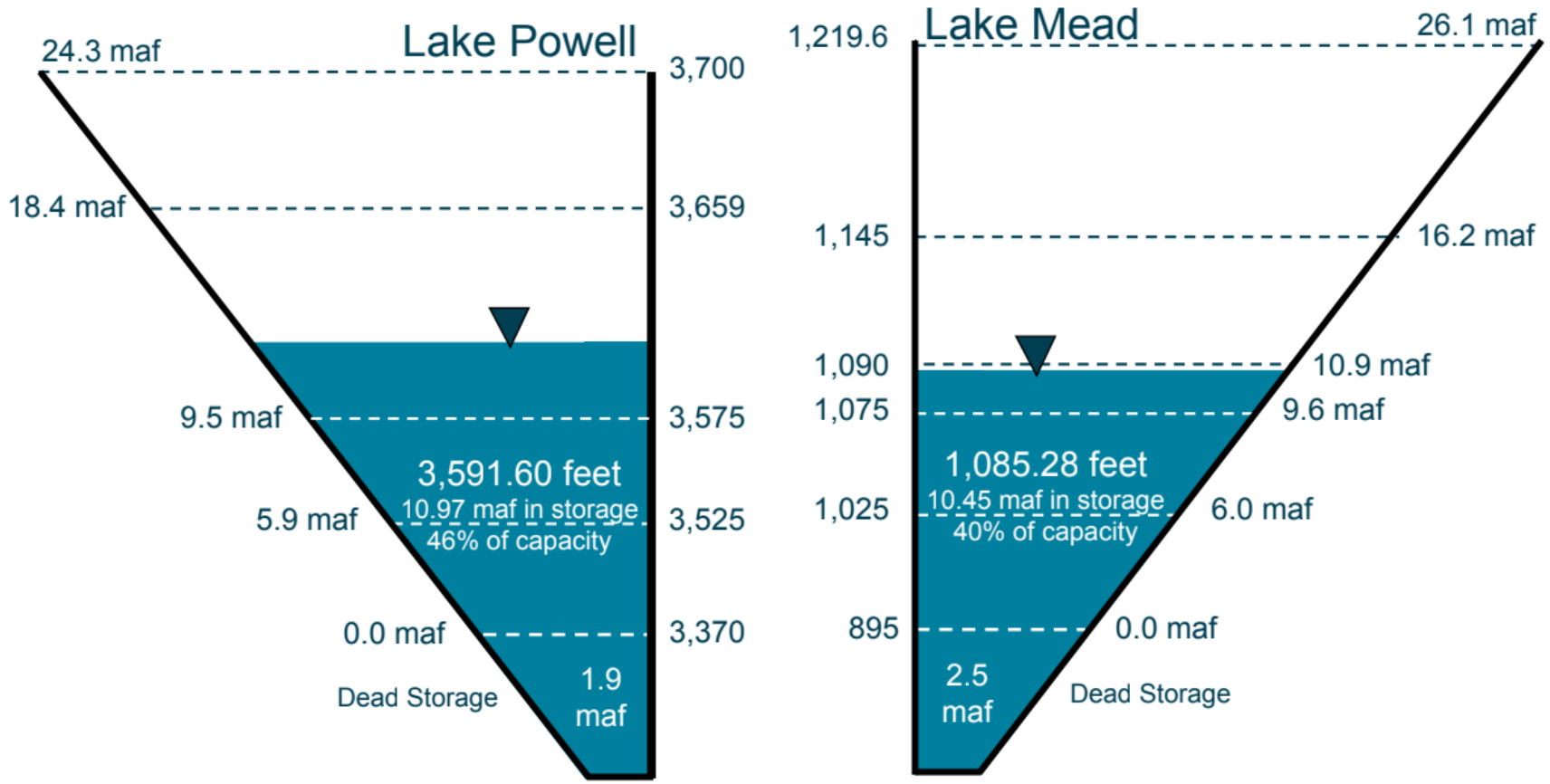
Not to Scale

[1] *WY 2020 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 8/3/20.*

End of Calendar Year 2020 Projections

August 2020 24-Month Study Most Probable Inflow Scenario[1]

Based on a Lake Powell release of 8.23 maf in WY 2020 and 9.00 maf in WY 2021

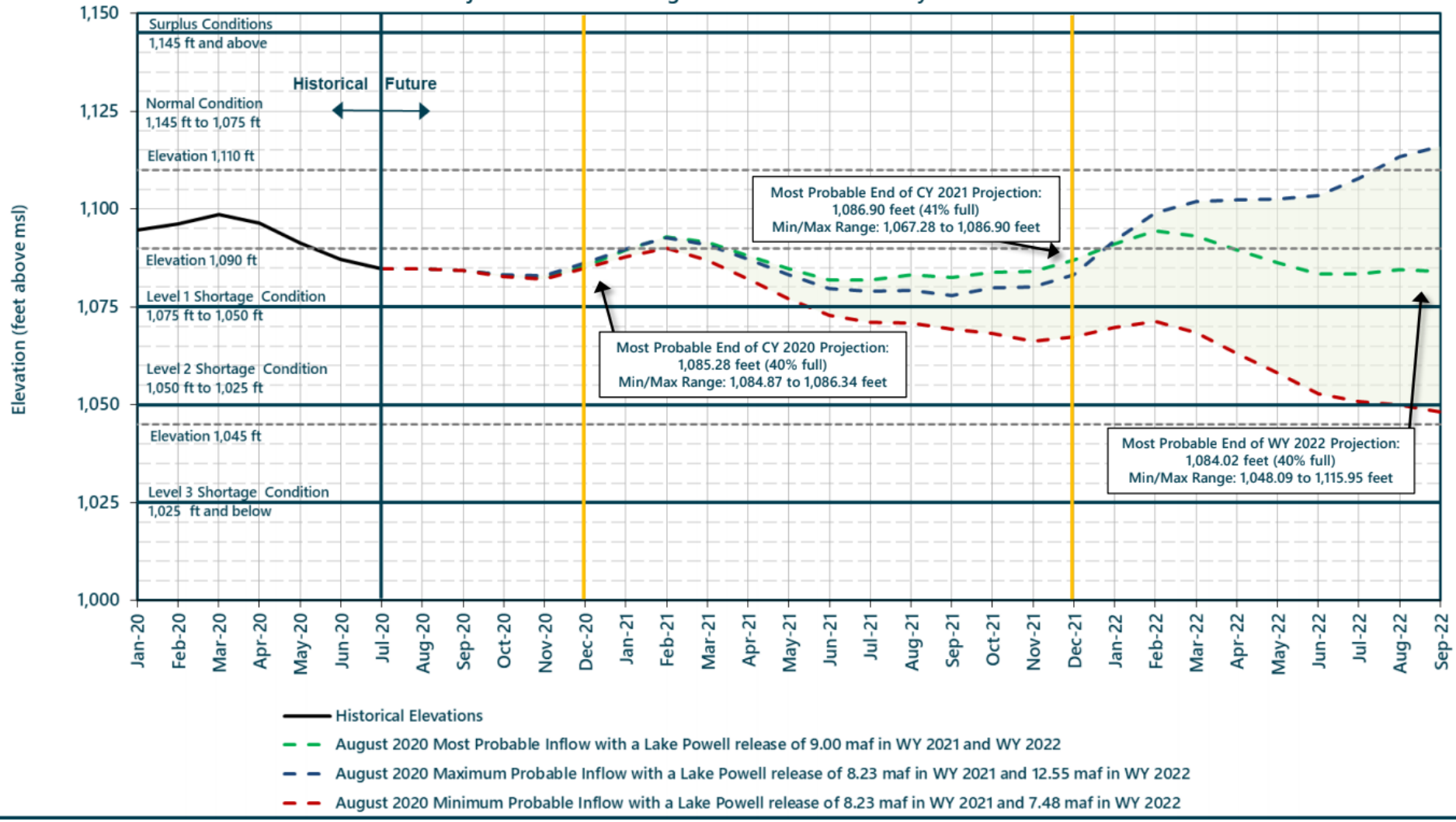


Not to Scale

[1] *WY 2020 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 8/3/20.*

Lake Mead End of Month Elevations

Projections from the August 2020 24-Month Study Inflow Scenarios



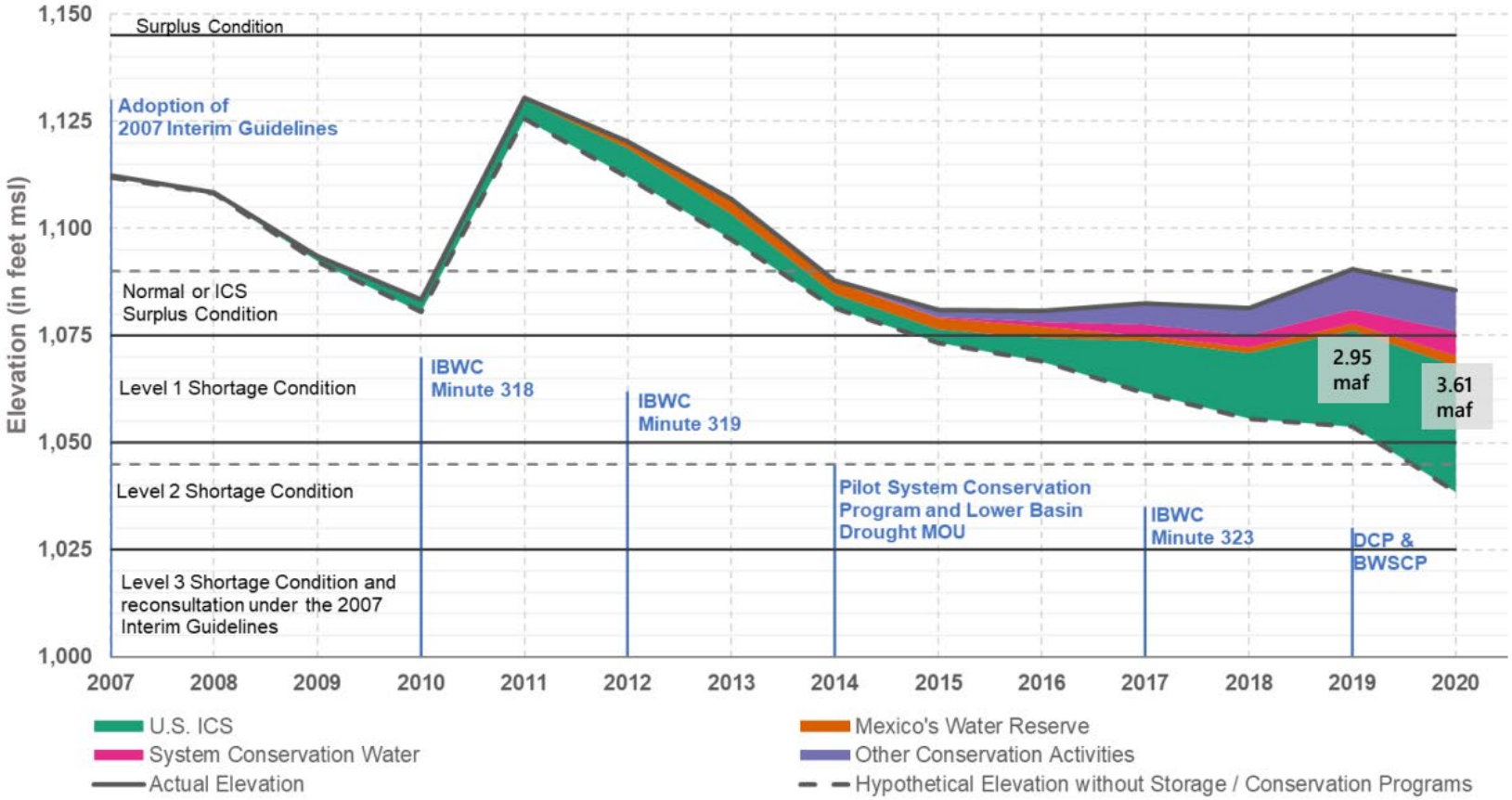
Probabilities of Shortage Based on Bureau of Reclamation CRSS Model Run – August 2020 using Full Hydrology[1] and Stress Test Hydrology[2] (%)

	2021[a]	2022	2023	2024	2025
Probability of *"Tier Zero"* DCP Contribution Condition *(Mead ≤ 1,090 ft, > 1,075 ft)*	**100** 100	**73** 61	**41** 45	**29** 29	**24** 6
Probability of any level of shortage (Mead ≤ 1,075 ft.)	**0** 0	**23** 32	**44** 55	**49** 65	**53** 77
Tier 1 Shortage (Mead ≤ 1,075, ≥1,050 ft)	0 0	23 32	39 42	35 35	33 42
Tier 2 Shortage (Mead <1,050, ≥1,025 ft)	0 0	0 0	5 13	13 29	15 16
Shortage Tier 2a *(Mead < 1,050, ≥ 1,045 ft)*	0 0	0 0	4 13	2 0	3 3
Shortage Tier 2b *(Mead < 1,045, ≥ 1,025 ft)*	0 0	0 0	<1 0	11 29	12 12
Tier 3 Shortage (Mead <1,025ft)	0 0	0 0	0 0	<1 0	5 19

- [1]Full Hydrology uses 113 hydrologic inflow sequences based on resampling of the observed natural flow record from 1906-2018.
- [2]Stress Test Hydrology uses 31 hydrologic inflow sequences based on resampling the observed natural flow record from 1988-2018.
- [a]The chance of an April switch to Equalization in water year 2021 is negligible.

Lake Mead Storage and Conservation

Lake Powell WY Release (maf)													
8.23	8.98	8.24	8.23	12.5	9.47	8.23	7.48	9.00	9.00	9.00	9.00	9.00	8.23



End of calendar year 2020 balances of U.S. ICS and Mexico's Water Reserve, system conservation water, and other conservation left in Lake Mead are provisional and subject to change. The projected end of calendar year 2020 Lake Mead elevation is based on the July 2020 24-Month Study.