

# Upper Basin – Lake Powell

## Percent of Traces with Event or System Condition

Results from August 2020 CRSS using the **Full Hydrology** and **Stress Test Hydrology** (values in percent)

Event or System Condition	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
<b>Equalization Tier (Powell ≥ Equalization [EQ] Elevation)</b>	N	14	17	19	23	N	0	6	13	10
<i>Equalization – annual release &gt; 8.23 maf</i>	0	14	17	19	21	0	0	6	13	10
<i>Equalization – annual release = 8.23 maf</i>	0	0	0	0	2	0	0	0	0	0
<b>Upper Elevation Balancing Tier (Powell &lt; EQ Elevation and ≥ 3,575 ft)</b>	100	51	55	57	49	100	48	45	45	35
<i>Upper Elevation Balancing – annual release &gt; 8.23 maf</i>	28	33	39	41	35	29	39	32	39	26
<i>Upper Elevation Balancing – annual release = 8.23 maf</i>	72	19	15	15	12	71	10	13	3	10
<i>Upper Elevation Balancing – annual release &lt; 8.23 maf</i>	0	0	1	1	1	0	0	0	3	0
<b>Mid-Elevation Release Tier (Powell &lt; 3,575 and ≥ 3,525 ft)</b>	0	35	25	20	25	0	52	48	26	32
<i>Mid-Elevation Release – annual release = 8.23 maf</i>	0	0	0	1	4	0	0	0	0	6
<i>Mid-Elevation Release – annual release = 7.48 maf</i>	0	35	25	19	21	0	52	48	26	26
<b>Lower Elevation Balancing Tier (Powell &lt; 3,525 ft)</b>	0	0	4	4	4	0	0	0	16	23
<i>Below Minimum Power Pool (Powell &lt; 3,490 ft)</i>	0	0	0	1	3	0	0	0	6	10

Notes:

<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>2</sup> Reservoir initial conditions on December 31, 2020 were simulated using the August 2020 Most Probable 24 Month Study.

<sup>3</sup> Full Hydrology uses 113 hydrologic inflow sequences from the Full Hydrology that resamples the observed natural flow record from 1906-2018 for a total of 113 traces analyzed and with 31 hydrologic inflow sequences from the Stress Test Hydrology that resamples the observed natural flow record from 1988-2018 for a total of 31 traces analyzed.

<sup>4</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>5</sup> Percentages shown may not sum to 100% due to rounding to the nearest percent.

<sup>6</sup> The chance of an April switch to Equalization in water year 2021 is negligible.

# Lower Basin – Lake Mead

## Percent of Traces with Event or System Condition

Results from August 2020 CRSS using the **Full Hydrology** and **Stress Test Hydrology** (values in percent)

Event or System Condition	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
<b>Surplus Condition – any amount (Mead ≥ 1,145 ft)</b>	0	0	4	7	11	0	0	0	0	0
Surplus – Flood Control	0	0	0	1	2	0	0	0	0	0
<b>Normal or ICS Surplus Condition (Mead &lt; 1,145 and &gt; 1,075 ft)</b>	100	77	52	44	36	100	68	45	35	23
Recovery of DCP ICS / Mexico’s Water Savings (Mead >/≥ 1,110 ft)	0	0	8	12	18	0	0	0	3	3
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,090 and > 1,075 ft)	100	73	41	29	24	100	61	45	29	6
<b>Shortage Condition – any amount (Mead ≤ 1,075 ft)</b>	0	23	44	49	53	0	32	55	65	77
<i>Shortage / Reduction – 1<sup>st</sup> level (Mead ≤ 1,075 and ≥ 1,050)</i>	0	23	39	35	33	0	32	42	35	42
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,075 and > 1,050 ft)	0	23	39	35	33	0	32	42	35	42
<i>Shortage / Reduction – 2<sup>nd</sup> level (Mead &lt; 1,050 and ≥ 1,025)</i>	0	0	5	13	15	0	0	13	29	16
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,050 and > 1,045 ft)	0	0	4	2	3	0	0	13	0	3
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,045 and > 1,040 ft)	0	0	1	5	4	0	0	0	13	3
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,040 and > 1,035 ft)	0	0	0	1	4	0	0	0	3	6
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,035 and > 1,030 ft)	0	0	0	4	1	0	0	0	3	3
DCP Contribution / Mexico’s Water Savings (Mead ≤ 1,030 and ≥/> 1,025 ft)	0	0	0	2	4	0	0	0	10	0
<i>Shortage / Reduction – 3<sup>rd</sup> level (Mead &lt; 1,025)</i>	0	0	0	1	5	0	0	0	0	19
DCP Contribution / Mexico’s Water Savings (Mead </≤ 1,025 ft)	0	0	0	1	5	0	0	0	0	19

Notes:

<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>2</sup> Reservoir initial conditions on December 31, 2020 were simulated using the August 2020 Most Probable 24 Month Study.

<sup>3</sup> Full Hydrology uses 113 hydrologic inflow sequences from the Full Hydrology that resamples the observed natural flow record from 1906-2018 for a total of 113 traces analyzed and with 31 hydrologic inflow sequences from the Stress Test Hydrology that resamples the observed natural flow record from 1988-2018 for a total of 31 traces analyzed.

<sup>4</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>5</sup> Percentages shown may not sum to 100% due to rounding to the nearest percent.