Upper Basin – Lake Powell Percent of Traces with Event or System Condition Results from April 2020 MTOM/CRSS using the Full Hydrology and Stress Test Hydrology (values in percent)

Event or System Condition	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
Equalization Tier (Powell ≥ Equalization [EQ] Elevation)	0	7	21	21	25	0	2	6	10	13
Equalization – annual release > 8.23 maf	0	7	21	21	25	0	2	6	10	13
Equalization – annual release = 8.23 maf	0	0	<1	< 1	<1	0	0	0	0	0
Upper Elevation Balancing Tier (Powell < EQ Elevation and ≥ 3,575 ft)	100	93	65	59	56	100	98	72	56	50
Upper Elevation Balancing – annual release > 8.23 maf	0	38	39	40	37	0	45	46	42	39
Upper Elevation Balancing – annual release = 8.23 maf	100	55	26	20	18	100	53	26	14	11
Upper Elevation Balancing – annual release < 8.23 maf	0	0	<1	< 1	1	0	0	<1	0	< 1
Mid-Elevation Release Tier (Powell < 3,575 and ≥ 3,525 ft)	0	0	14	19	18	0	0	22	33	31
Mid-Elevation Release – annual release = 8.23 maf	0	0	0	0	< 1	0	0	0	0	0
Mid-Elevation Release – annual release = 7.48 maf	0	0	14	19	18	0	0	22	33	31
Lower Elevation Balancing Tier (Powell < 3,525 ft)	0	0	0	<1	1	0	0	0	<1	6
Below Minimum Power Pool (Powell < 3,490 ft)	0	0	0	0	<1	0	0	0	0	<1

Notes:



¹ 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.

² Reservoir initial conditions on December 31, 2020 were simulated using the April 2020 MTOM based on the CRRFC unregulated inflow forecast ensemble dated April 3, 2020.

³ Each of the 35 initial conditions from MTOM were coupled with 113 hydrologic inflow sequences from the Full Hydrology that resamples the observed natural flow record from 1906-2018 for a total of 3955 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 1,085 traces analyzed.

⁴ Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.

⁵ Percentages shown may not sum to 100% due to rounding to the nearest percent.

Lower Basin – Lake Mead Percent of Traces with Event or System Condition Results from April 2020 MTOM/CRSS using the Full Hydrology and Stress Test Hydrology (values in percent)

Event or System Condition	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
Surplus Condition – any amount (Mead ≥ 1,145 ft)	0	0	<1	6	10	0	0	0	<1	1
Surplus – Flood Control	0	0	0	<1	2	0	0	0	0	0
Normal or ICS Surplus Condition (Mead < 1,145 and > 1,075 ft)	100	100	91	63	53	100	100	88	53	44
Recovery of DCP ICS / Mexico's Water Savings (Mead >/≥ 1,110 ft)	0	0	5	15	21	0	0	1	4	8
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,090 and > 1,075 ft)	100	94	77	44	34	100	94	78	41	32
Shortage Condition – any amount (Mead ≤ 1,075 ft)	0	N	9	31	37	0	N	12	47	55
Shortage / Reduction – 1st level (Mead ≤ 1,075 and ≥ 1,050)	0	0	9	30	28	0	0	12	44	32
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,075 and > 1,050 ft)	0	0	9	30	28	0	0	12	44	32
Shortage / Reduction – 2 nd level (Mead < 1,050 and ≥ 1,025)	0	0	0	1	9	0	0	0	3	23
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,050 and > 1,045 ft)	0	0	0	1	3	0	0	0	2	5
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,045 and > 1,040 ft)	0	0	0	<1	2	0	0	0	<1	5
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,040 and > 1,035 ft)	0	0	0	0	2	0	0	0	0	7
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,035 and > 1,030 ft)	0	0	0	0	1	0	0	0	0	4
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,030 and ≥/> 1,025 ft)	0	0	0	0	1	0	0	0	0	3
Shortage / Reduction – 3 rd level (Mead < 1,025)	0	0	0	0	< 1	0	0	0	0	0
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,025 ft)</td <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	0	0	0	0	<1	0	0	0	0	0

Notes:



¹ 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.

² Reservoir initial conditions on December 31, 2020 were simulated using the April 2020 MTOM based on the CRRFC unregulated inflow forecast ensemble dated April 3, 2020.

³ Each of the 35 initial conditions from MTOM were coupled with 113 hydrologic inflow sequences from the Full Hydrology that resamples the observed natural flow record from 1906-2018 for a total of 3955 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 1,085 traces analyzed.

⁴ Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.

⁵ Percentages shown may not sum to 100% due to rounding to the nearest percent.

⁶ The chance of a Lower Basin Shortage in 2021 is negligible.