

August 2024 24-Month Study Projections

Lake Powell and Lake Mead: End of Month Elevation Charts



Explanation of Hydrologic Scenarios

In addition to the August 2024 24-Month Study based on the Most Probable inflow scenario, and in accordance with the Upper Basin Drought Response Operations Agreement (DROA), Reclamation has conducted additional model runs in August to determine a possible range of reservoir elevations. Probable minimum and probable maximum model runs are conducted in January, April, August, and October, or when necessary to incorporate changing conditions. The Probable Minimum inflow scenario reflects a dry hydrologic condition which statistically would be exceeded 90% of the time. The Most Probable inflow scenario reflects a median hydrologic condition which statistically would be exceeded 50% of the time. The Probable Maximum inflow scenario reflects a wet hydrologic condition which statistically would be exceeded 10% of the time. There is approximately an 80% probability that a future elevation will fall inside the range of the minimum and maximum inflow scenarios. Additionally, there are possible inflow scenarios that would result in reservoir elevations falling outside the ranges indicated in these reports.

August 2024 Probable Minimum 24-Month Study

The water year (WY) 2024 unregulated inflow into Lake Powell in the August Probable Minimum inflow scenario is 7.94 million acre-feet (maf), or 83% of average. The Probable Minimum 24-Month Study includes a release volume from Glen Canyon Dam of 7.48 maf in WY 2024 and in WY 2025. Under the Probable Minimum scenario, Lake Powell's elevation is projected to be 3,570.93 feet on December 31, 2024. With intervening flows between Lake Powell and Lake Mead of 0.714 maf in calendar year (CY) 2024, Lake Mead's elevation is projected to be 1,061.92 feet on December 31, 2024.

August 2024 Most Probable 24-Month Study

The WY 2024 unregulated inflow into Lake Powell in the August Most Probable inflow scenario is 7.94 maf, or 83% of average. The Most Probable 24-Month Study includes a release volume from Glen Canyon Dam of 7.48 maf in WY 2024 and in WY 2025. Under the Most Probable scenario, Lake Powell's elevation is projected to be 3,574.08 feet on December 31, 2024. With intervening flows between Lake Powell and Lake Mead of 0.736 maf in CY 2024, Lake Mead's elevation is projected to be 1,062.32 feet on December 31, 2024.

August 2024 Probable Maximum 24-Month Study

The WY 2024 unregulated inflow into Lake Powell in the August Probable Maximum inflow scenario is 7.94 maf, or 83% of average. The Probable Maximum 24-Month Study includes a release volume from Glen Canyon Dam of 7.48 maf in WY 2024 and 7.48 maf in WY 2025. Under the Probable Maximum scenario, Lake Powell's elevation is projected to be 3,580.38 feet on December 31, 2024. With intervening flows between Lake Powell and Lake Mead of 0.838 maf in CY 2024, Lake Mead's elevation is projected to be 1,063.68 feet on December 31, 2024.

The draft 2024 AOP is available online at:

https://www.usbr.gov/lc/region/g4000/AOP2024/AOP24_draft.pdf.

The Colorado River DCPs are available online at:

<https://www.usbr.gov/ColoradoRiverBasin/dcp/finaldocs.html>.

Information on the LC Conservation Program is available online at:

<https://www.usbr.gov/lc/LCBConservation.html>.

The Interim Guidelines are available online at:

<https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The Upper Basin Hydrology Summary is available online at:

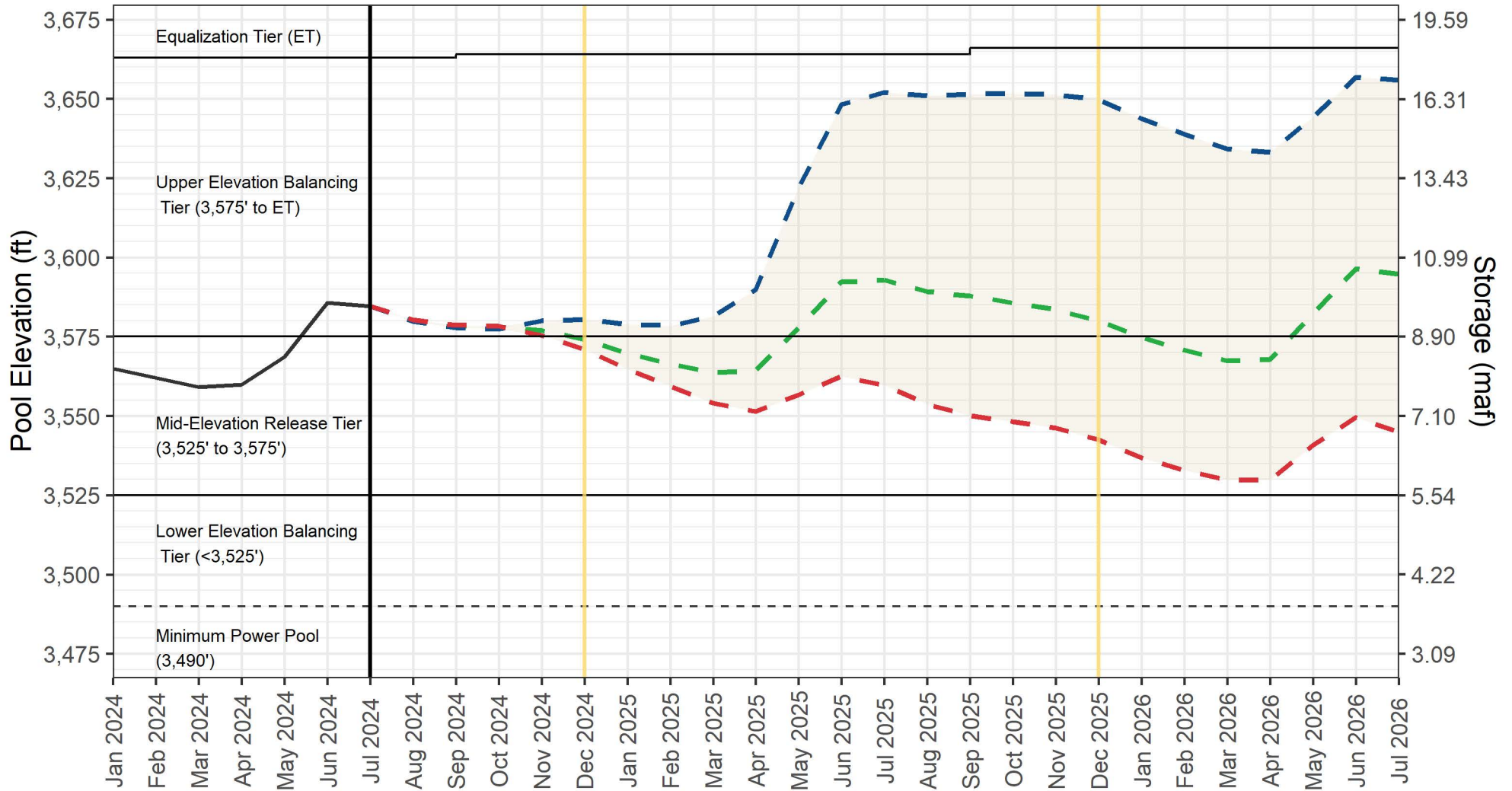
https://www.usbr.gov/uc/water/crsp/studies/24Month_08_ucb.pdf.

Information on the 2024 Interim Guidelines SEIS is available online at:

<https://www.usbr.gov/ColoradoRiverBasin/interimguidelines/seis/index.html>.

Lake Powell End-of-Month Elevations

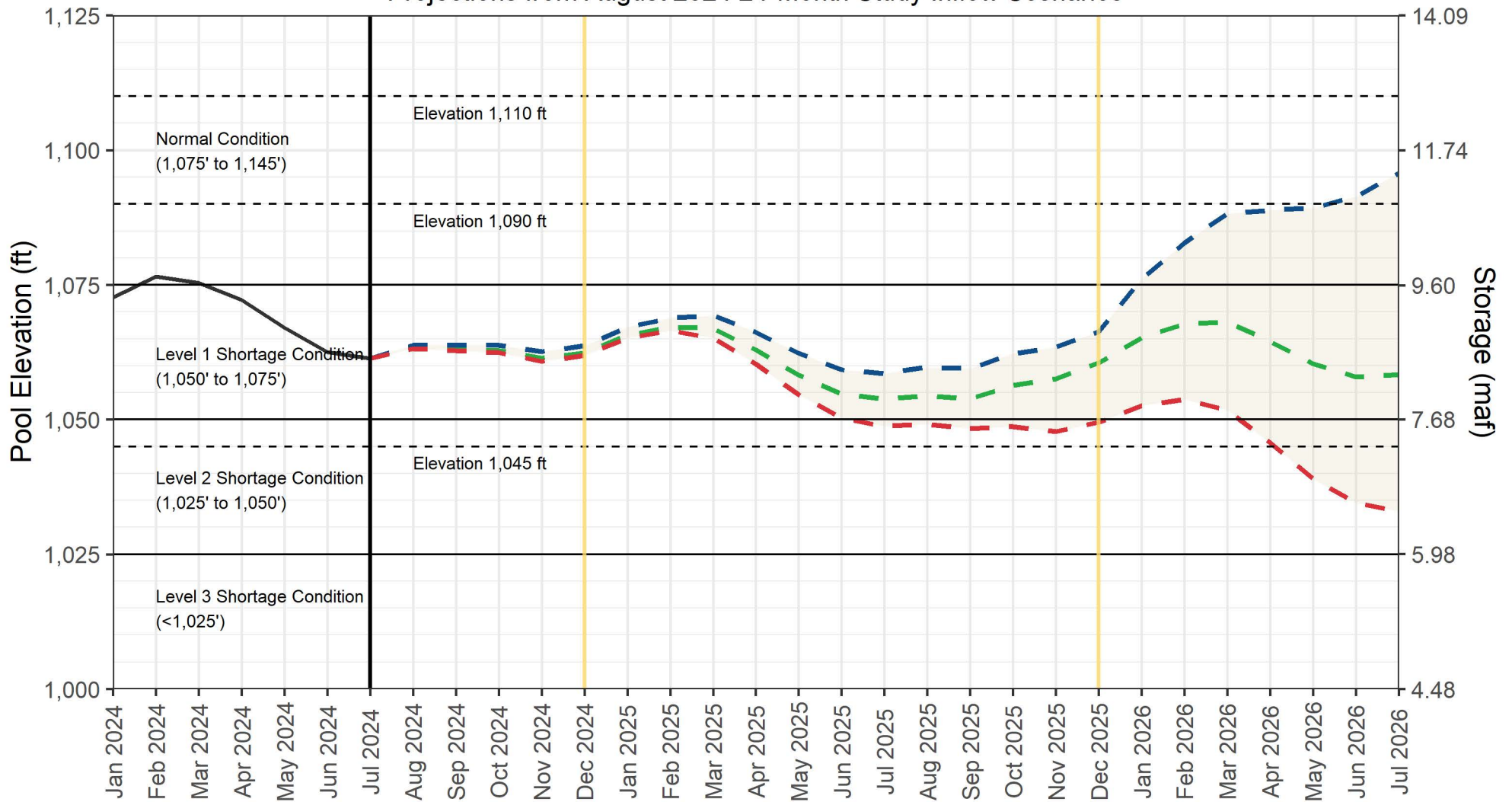
Projections from August 2024 24-Month Study Inflow Scenarios



- Historical Elevations
- August 2024 Probable Maximum Inflow with a Lake Powell release of 7.48 maf in WY 2024 and WY 2025
- August 2024 Most Probable Inflow with a Lake Powell release of 7.48 maf in WY 2024 and WY 2025
- August 2024 Probable Minimum Inflow with a Lake Powell release of 7.48 maf in WY 2024 and WY 2025

Lake Mead End-of-Month Elevations

Projections from August 2024 24-Month Study Inflow Scenarios



- Historical Elevations
- August 2024 Probable Maximum Inflow with a Lake Powell release of 7.48 maf in WY 2024 and WY 2025
- August 2024 Most Probable Inflow with a Lake Powell release of 7.48 maf in WY 2024 and WY 2025
- August 2024 Probable Minimum Inflow with a Lake Powell release of 7.48 maf in WY 2024 and WY 2025