Hydrology Report – August 2024

Upper Basin Hydrology

- In July, the upper basin received 65% of average precipitation bringing the cumulative total to 98% for the year.
- Temperatures in the upper basin for July were 1-3 degrees above normal.
- Snowpack accumulation peaked this year at 111% of the seasonal median.
- The Basin Forecast Center is forecasting runoff this year at 83% of average.

Current reservoir status

- As of August 5, 2024, Lake Mead is at an elevation of **1,061.4** feet and has about 8.5 million acre-feet in storage (33% capacity). The level is 20 **feet higher** than the low reached in July of 2022 of 1,041.
- As of August 5, 2024, Lake Powell is at an elevation of 3,583.9 feet and has about 9.6 million acre-feet in storage (41% capacity).
- Total system storage for the upper and lower basin is around 26 million acre-feet (44% capacity).

2024 reservoir operations

- Lake Powell will be operated in the Mid-Elevation Release Tier with a release of 7.48 million acre-feet in water year 2024.
- Lake Mead will operate in a Level 1 Shortage Condition in calendar year 2024.
- Accordingly, in 2024, Nevada's consumptive use will be reduced by 13,000 acre-feet under the 2007
 Interim Guidelines and Nevada will make a Drought Contingency Plan contribution of 8,000 acre-feet.
- Arizona and Mexico are also required to take shortage and make a water savings contribution in 2024. Those amounts are significantly larger than Nevada's obligations.
- The total combined volumes for Arizona, Nevada, and Mexico are 613,000 acre-feet in calendar year 2024, which will save the equivalent of about 8 feet in elevation in Lake Mead.

Water Use in Southern Nevada 1

• Southern Nevada's consumptive use for January-June of 2024 was 88,321 acre-feet, which is a 4.3% increase in water use compared to 2023.

Reclamation's Lake Mead and Lake Powell Projections ²

- Reclamation uses computer models to forecast reservoir elevations based on planned water use and anticipated runoff. The July 2024 24 Month Study is forecasting Lake Mead to be between 1,061.0 and 1,060.5 feet in elevation by the end of 2024.
- Reclamations July 2024 24 Month Study is forecasting Lake Powell's elevation to be between 3,576.5 and 3,572.1 feet by the end of 2024.

¹ 2024 consumptive use data is preliminary.

² Reclamation modeling assumes the current operational guidelines and planned conservation activities. Forecasts could improve by implementing additional actions.



Colorado River Commission of Nevada

Hydrology and River Updates

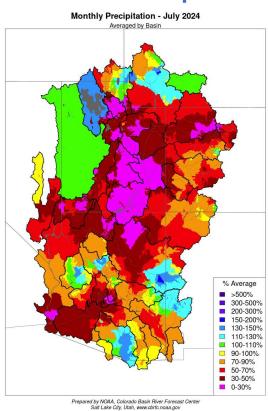
Warren Turkett

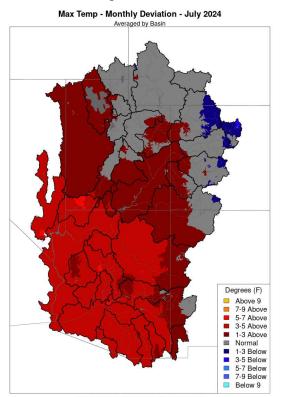
August 13, 2024





Precipitation and Temperature





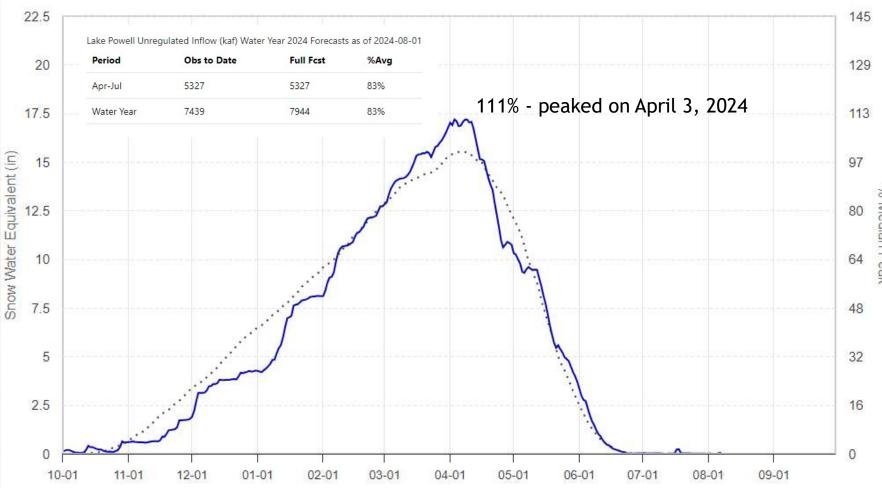
Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov

Lake Powell %Average Precipitation Water Year 2024

Area	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Water Year
UC-Powell	92	56	76	120	137	130	69	95	153	65	98

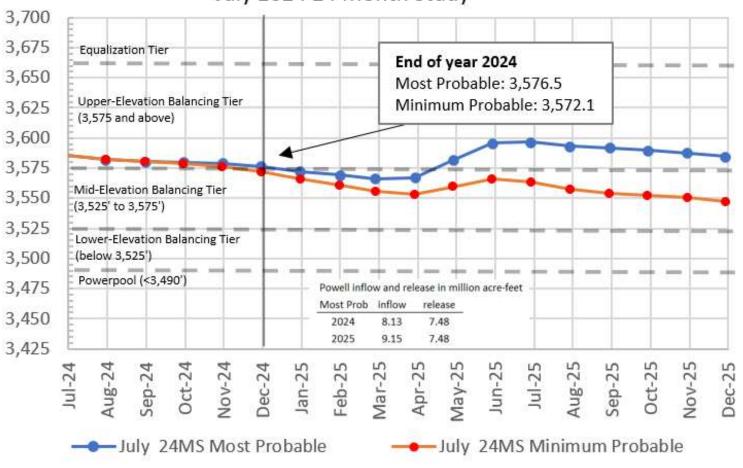


Snowpack Accumulation





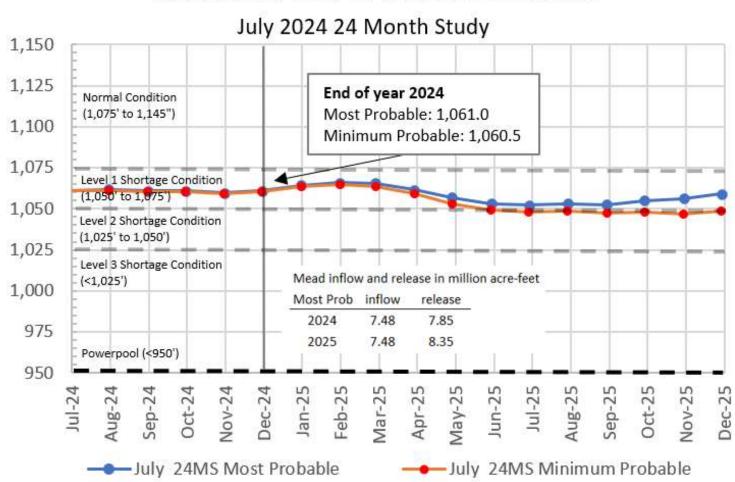
Lake Powell End-of-Month Elevations July 2024 24 Month Study



August 5, 2024 elevation: 3,583.9 feet



Lake Mead End-of-Month Elevations



August 5, 2024 elevation: 1,061.4 feet



Water Use In Southern Nevada

2024 Januar	v-June Southern Nevada Water Use ¹	Acre-Feet
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Nevada Annual Allocation	300,000			
Drought Contingency Plan contribution	-8,000			
Interim Guidelines Shortages	-13,000			
Diversions	212,400			
Return Flow Credits	124,080			
Consumptive Use 1 2024 Consumptive use data is preliminary.	88,321 (4.3% increase compared to last year)			