

Colorado River Commission of Nevada

Hydrology and Water Use Update August 13, 2019



Summary

Lake Powell

- Water Year 2019 Upper Basin snowpack peaked at 126% of average.
- Water Year 2019 Upper Basin cumulative precipitation is 122% of average.
- Water Year 2019 unregulated inflow is forecasted at 125% of average.

Lake Mead

- A Lower Basin shortage is not projected for Water Year 2020.
- Lake Mead is projected to increase about 5 feet by end of calendar year.

Nevada Water Supply

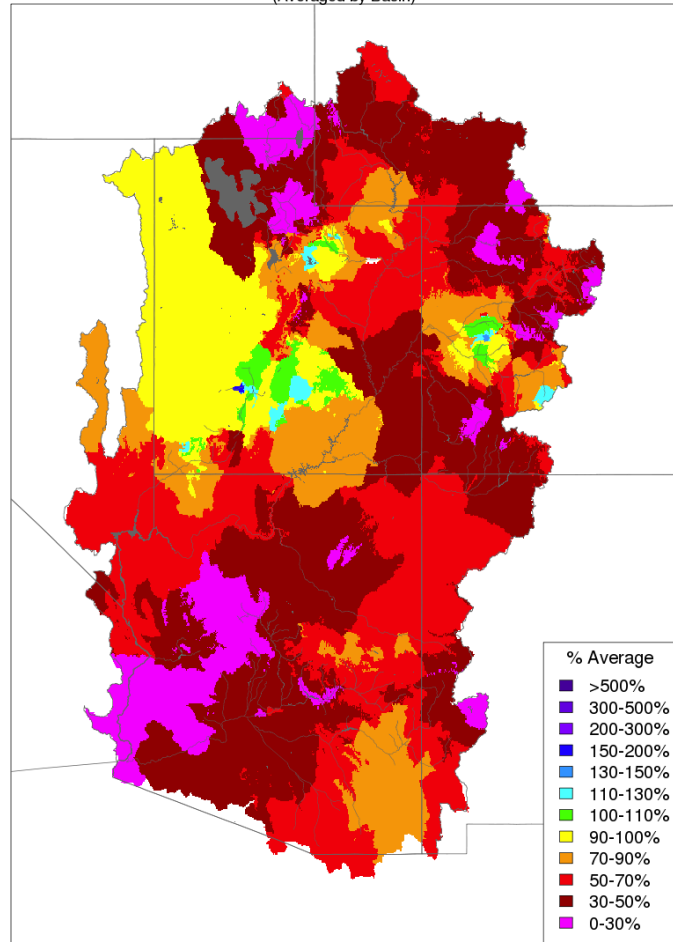
- Southern Nevada has 7 years of water supply banked.
- **In 2018, Southern Nevada used 19% less than its annual allocation.**

| Storage | Elevation (f) | % Capacity | Change since last year |
|-------------|---------------|------------|------------------------|
| Lake Mead | 1,083.0 | 39% | 4.5 ft |
| Lake Powell | 3,621.7 | 57% | 36.0 ft |

Data retrieved August 5, 2019

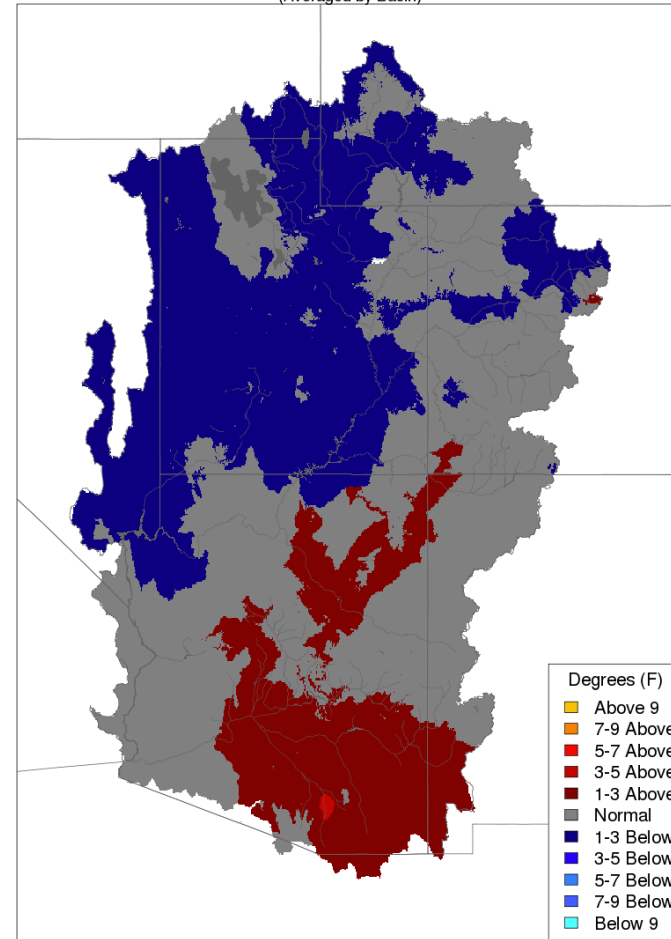
Precipitation and Temperature

Monthly Precipitation - July 2019
(Averaged by Basin)



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

Max Temp - Monthly Deviation - July 2019
(Averaged by Basin)



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

Above Lake Powell July precipitation: 52%

Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Powell Acre-Feet % Average

| | | |
|----------------------|------------|------|
| Water Year 2019 | 13,535,000 | 125% |
| April thru July 2019 | 10,410,000 | 145% |

| Reservoir | Current Elevation | Current Storage Acre-Feet | Current % Capacity | Projected Elevation on 1/1/2020 ¹ |
|-------------|-------------------|---------------------------|--------------------|--|
| Lake Mead | 1,083.0 | 10,260,000 | 39% | 1,087.5 |
| Lake Powell | 3,621.7 | 13,940,000 | 57% | 3,622.4 |

Data retrieved August 5, 2019

¹ Based on Reclamation's July 2019 24 Month Study.

Water Use In Southern Nevada

Southern Nevada Water Use

2018 Actual Use in Acre-Feet

| | |
|---|--------------|
| Nevada Annual Allocation | 300,000 |
| Diversion | 479,279 |
| Return Flows | 235,176 |
| Consumptive Use | 244,103 |
| Unused Allocation Available for Banking | 55,897 (19%) |

Southern Nevada Water Use

Diversions

Return Flows

Consumptive Use

| | | | |
|-------------------|---------|---------|--------|
| January-June 2019 | 209,181 | 119,435 | 89,746 |
|-------------------|---------|---------|--------|

Banked Water (through end of 2018)

Acre-Feet

| | |
|-------------------------------------|-----------|
| Ground Water Recharge in So. Nevada | 358,045 |
| Banked in Lake Mead | 700,448 |
| Banked in California and Arizona | 943,821 |
| Total | 2,002,314 |