

# Colorado River Commission of Nevada

## Hydrology and Water Use Update October 9, 2018



# Summary

## Lake Powell

- Water Year 2018 cumulative precipitation was 64% of average.
- Water Year 2018 unregulated inflow was 43% of average.
- Water Year 2019 unregulated inflow is forecasted at 70% of average.

## Lake Mead

- A shortage will not occur in 2019.
- Lake Mead is projected to remain around current elevations through the end of the calendar year.

## Nevada Water Supply

- Southern Nevada has 7 years of water supply banked.
- **In 2017, Southern Nevada used 19% less than its annual allocation.**

| Storage     | Elevation (f) | % Capacity | Change since last year |
|-------------|---------------|------------|------------------------|
| Lake Mead   | 1,079.3       | 38%        | - 3.9 ft               |
| Lake Powell | 3,591.8       | 45%        | - 35.9 ft              |

# Water Use In Southern Nevada

## Southern Nevada Water Use

2017 Actual Use in Acre-Feet

|   |              |
|---|--------------|
| Nevada Annual Allocation                | 300,000      |
| Diversion                               | 470,271      |
| Return Flows                            | 226,846      |
| Consumptive Use                         | 243,425      |
| Unused Allocation Available for Banking | 56,575 (19%) |

## Southern Nevada Water Use

Diversions

Return Flows

Consumptive Use

|                          |         |         |         |
|--------------------------|---------|---------|---------|
| January thru August 2018 | 325,105 | 155,667 | 169,438 |
|--------------------------|---------|---------|---------|

## Banked Water (through end of 2017)

Acre-Feet

|                                     |           |
|-------------------------------------|-----------|
| Ground Water Recharge in So. Nevada | 359,045   |
| Banked in Lake Mead                 | 582,313   |
| Banked in California and Arizona    | 931,226   |
| Total                               | 1,872,584 |

# Unregulated Inflow, Current and Projected Reservoir Status

| Projected unregulated inflow to Lake Powell | Acre-Feet | % Average |
|---|-----------|-----------|
| Water Year 2018 (preliminary)               | 4,622,000 | 43%       |
| April thru July 2018 (observed)             | 2,602,000 | 36%       |

| Reservoir   | Current Elevation | Current Storage Acre-Feet | Current % Capacity | Projected Elevation on 1/1/2019 <sup>1</sup> |
|-------------|-------------------|---------------------------|--------------------|--|
| Lake Mead   | 1,079.3           | 9,955,000                 | 38%                | 1,079.2                                      |
| Lake Powell | 3,591.8           | 10,983,000                | 45%                | 3,583.7                                      |

Data retrieved October 9th, 2018

<sup>1</sup> Based on Reclamation's September 2018 24 Month Study.