Colorado River Commission of Nevada

Hydrology and Water Use Update September 11, 2018





Summary

Lake Powell

- Upper Basin cumulative precipitation is at 68% of average
- Water Year 2018 is forecasted to be only 44% of average
- Glen Canyon Dam will release above average flows in 2019

Lake Mead

- A shortage will not occur in 2019
- Lake Mead is projected to maintain 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

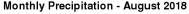
Storage	Elevation (f)	% Capacity	Change since last year
Lake Mead	1,079.3	38%	- 2.4 ft
Lake Powell	3,596.7	47%	- 6.8 ft

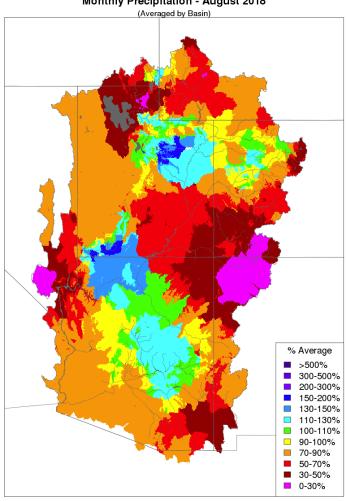
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Water Use In Southern Nevada

Southern Nevada Water Use	2017 Actual	2017 Actual Use in Acre-Feet		
Nevada Annual Allocation	,	300,000		
Diversion	4	470,271		
Return Flows	2	226,846		
Consumptive Use	2	243,425		
Unused Allocation Available for Ba	56,	56,575 (19%)		
Southern Nevada Water Use January thru July 2018	Diversions 275,359	Return Flows 134,788	Consumptive Use 140,571	
Banked Water (through end of 201	17)		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		

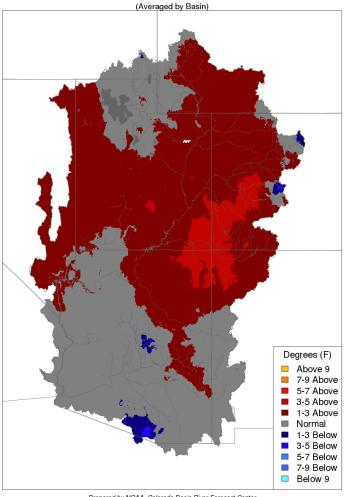
Precipitation and Temperature





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

Max Temp - Monthly Deviation - August 2018



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

Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Powell		ell Acre-Feet	% Average
	Water Year 2018	4,761,000	44%
	April thru July 2018 (observed)	2,602,000	36%

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2019 ¹
Lake Mead	1,079.3	9,951,000	38%	1,079.5
Lake Powell	3,596.7	11,437,000	47%	3,586.6

Data retrieved September 6th, 2018

¹ Based on Reclamation's August 2018 24 Month Study.

Lower Basin Conservation

2017 Actual Conservation

Acre-Feet

Arizona	290,497	
California	373,485	
Nevada	56,575	
Total	720,557	

Lower Basin consumptively used 6,779,443 of 7,500,000 allocation

Las Vegas Ground Water Accounting

- Since 1987, approximately 377,000 acre-feet of Colorado River water has been artificially recharged into local groundwater aquifers
- Las Vegas Valley Water District and North Las Vegas own separate groundwater rights that are recovered and used/accounted for to serve customers prior to recovering Colorado River water for use
- Once the groundwater rights have been utilized, Colorado River water is then recovered and used to continue to serve customers
- Every acre foot of separate groundwater rights water and artificially recharged Colorado River water is accounted for
- There is no accepted loss factor applied to the use of groundwater