Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update March 17, 2016





Unregulated Inflow Into Lake Powell

As of March 14, 2016

	MAF*	% Avg**
• WY 2016 (Projected):	9.02	83%
April-July 2016 (Projected):	5.7	80%
• February (observed):	0.40	101%
March (forecasted):	0.70	105%

*MAF=Million Acre-Feet

**30-year average, from 1981-2010 (current normal)



Storage Conditions

As of March 14, 2016

Percent of Capacity <u>Δ from last year</u>

Lake Mead elev.

1,082.84 ft

39%

4.57 ft

Lake Powell elev.

3,593.72 ft

46%

1.91 ft

Total System Storage (3/2016) 29.05 maf

49%

____ 0.04 maf

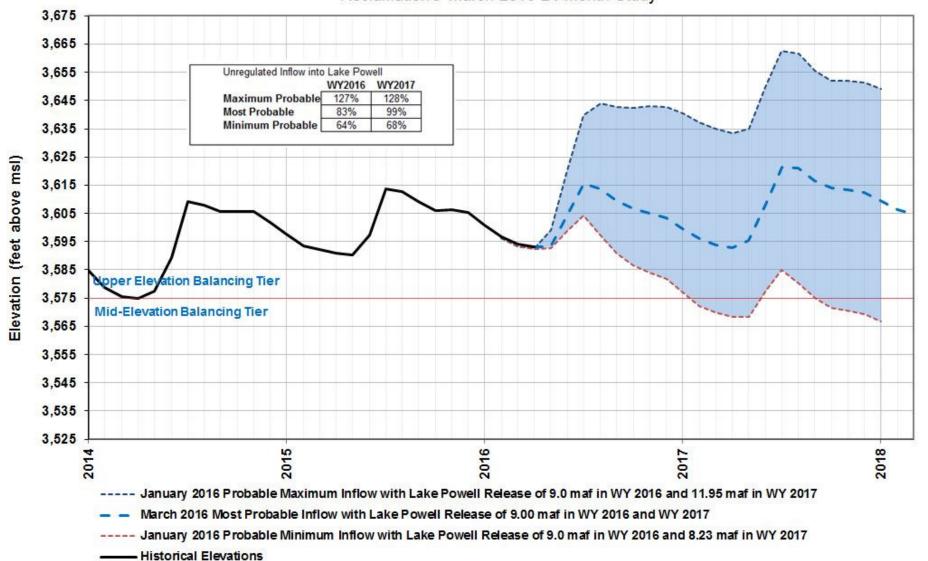
Total System Storage (3/2015) 29.09 maf

49%



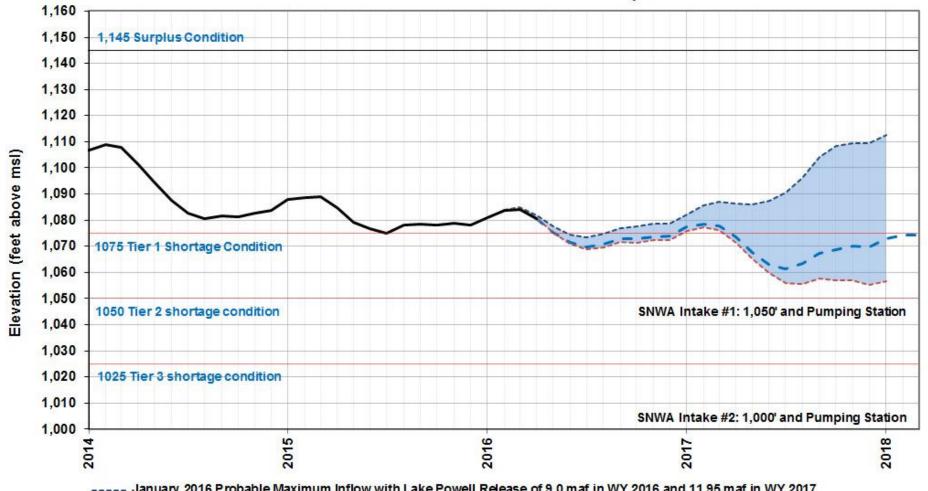
Lake Powell Projections

Reclamation's March 2016 24-Month Study



Lake Mead Projections

Reclamation's March 24-Month Study



January 2016 Probable Maximum Inflow with Lake Powell Release of 9.0 maf in WY 2016 and 11.95 maf in WY 2017

March 2016 Most Probable Inflow with Lake Powell Release of 9.00 maf in WY 2016 and WY 2017

January 2016 Probable Minimum Inflow with Lake Powell Release of 9.0 maf in WY 2016 and 8.23 maf in WY 2017

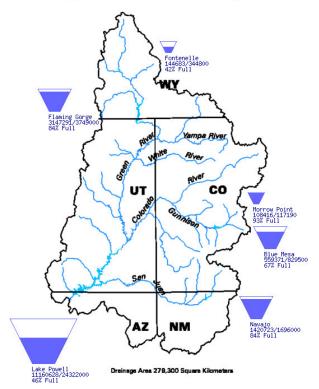
Historical Elevations

Reservoir Storage

As of March 14, 2016

Data Current as of: 03/13/2016

Upper Colorado River Drainage Basin



Colorado River Reservoir Storages

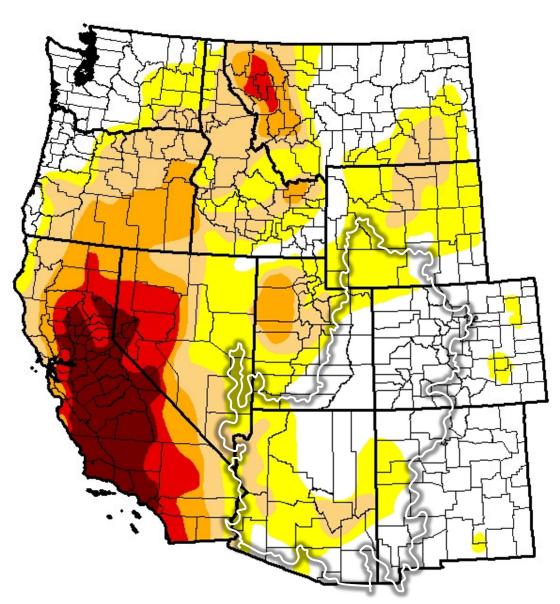
	NVCI NCSCI VOII		*Current		Current Storage
Basin	Reservoir	Max Storage	Storage	Percentage	subtotals
Upper Basin	Crystal Reservoir	17,356	16,758	97%	5,397,242
	Flaming Gorge	3,749,000	3,147,291	84%	
	Fontenelle	344,800	144,683	42%	
	Morrow Point	117,190	108,416	93%	
	Blue Mesa	829,500	559,371	67%	
	Navajo	1,696,000	1,420,723	84%	
	Lake Powell	24,322,000	11,160,628	46%	
Lower Basin	Lake Mead	26,120,000	10,243,000	39%	
	Lake Mohave	1,809,800	1,664,100	92%	2,246,200
	Lake Havasu	619,400	582,100	94%	
	TOTAL	59,625,046	29,047,070	49%	

^{*}Data current as 3/14/2016

http://www.usbr.gov/lc/region/g4000/hourly/levels.html

http://www.usbr.gov/uc/water/rsvrs/ops/r40day.html

U.S. Drought Monitor West

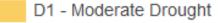


March 8, 2016

(Released Thursday, Mar. 10, 2016) Valid 7 a.m. EST

Intensity:





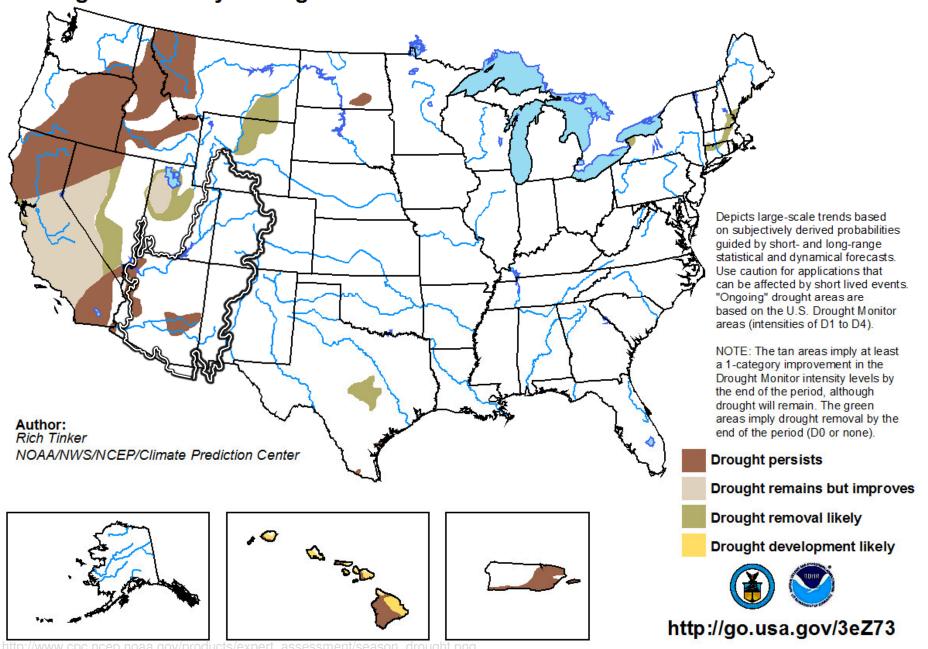






U.S. Seasonal Drought OutlookDrought Tendency During the Valid Period

Valid for February 18 - May 31, 2016 Released February 18, 2016



Precipitation – Colorado River Basin

As of March 14, 2016

Upper Colorado

Basin

WY Precip to Date

91% (14.7")

Current Basin Snowpack

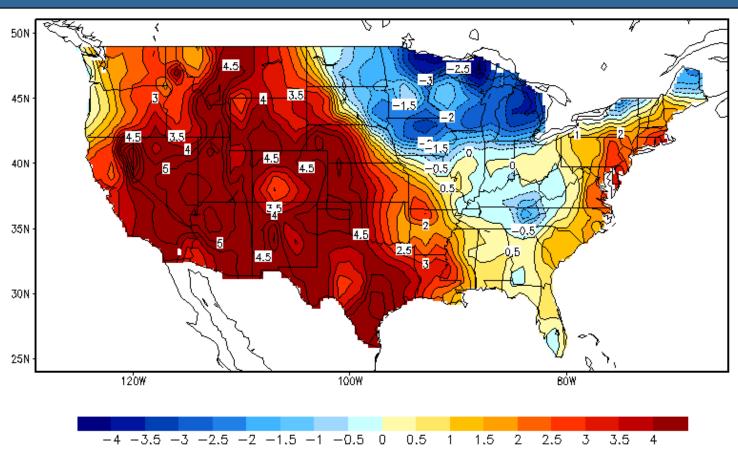
90% (12.8")

(Avg 1981-2010)



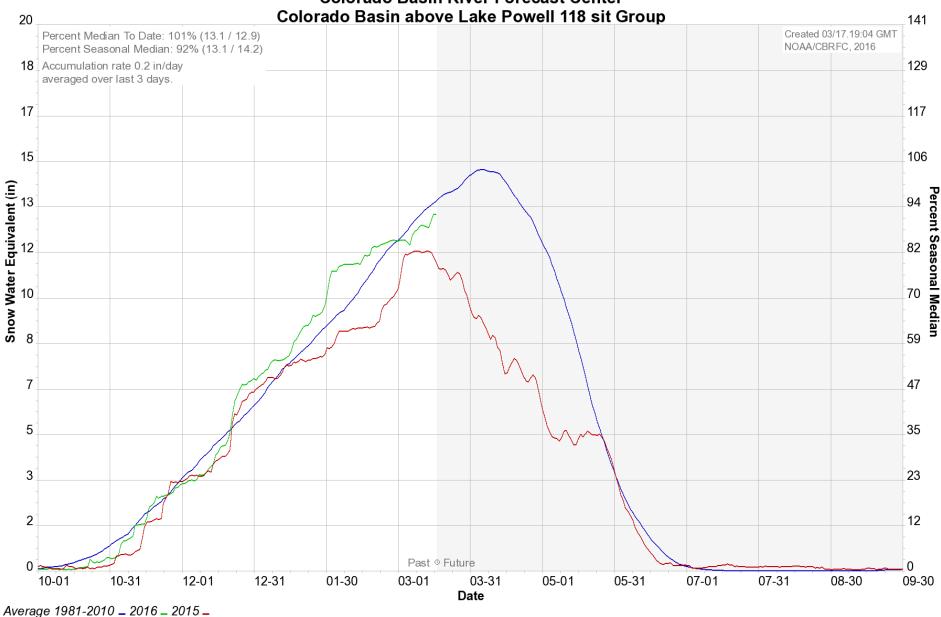
Temperature Deviations

Latest Month Averaged Temperature Anomaly



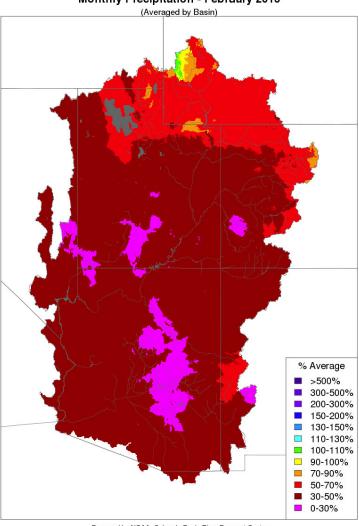
Warmer than average temperatures in February caused some areas of snow accumulation to start melting early. Historically, March and some of April can contribute to snowpack accumulation. To get above average snowpack for this water year, temperature needs to decrease and precipitation needs to increase through April. Some recent storms have improved snowpack conditions.

Colorado Basin River Forecast Center



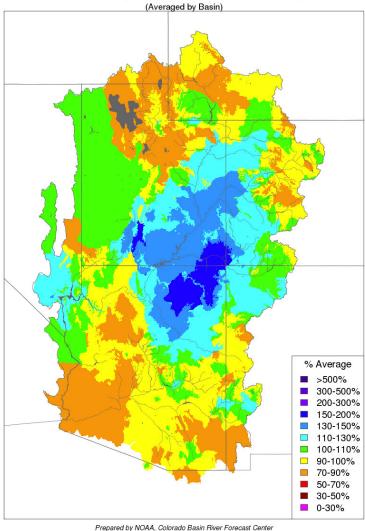
Precipitation

Monthly Precipitation - February 2016



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

Water Year Precipitation, October 2015 - February 2016



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

Water Use in Southern Nevada



Water Use in Southern Nevada

January – 2016

2016*: Consumptive Use = 8,451 af

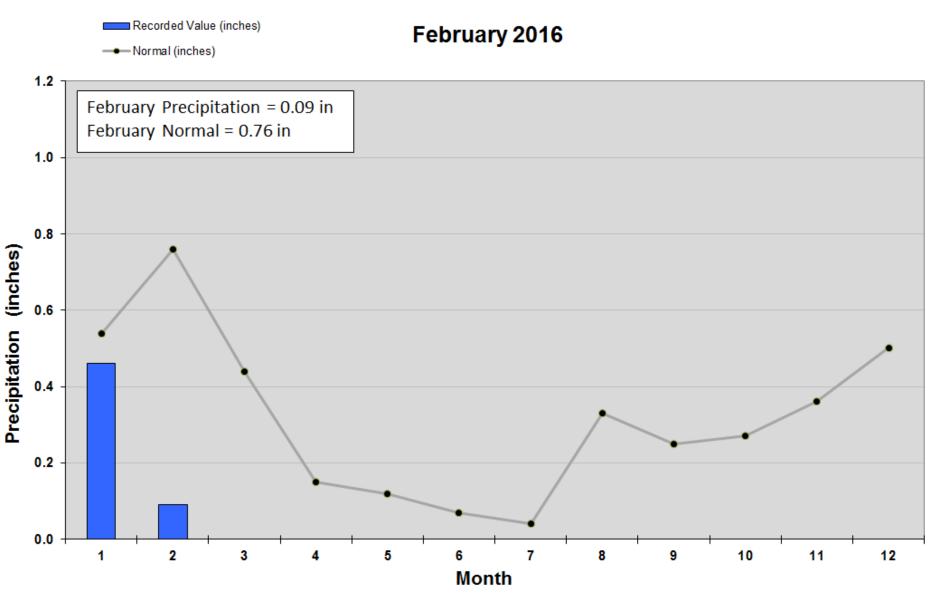
 2015^* : Consumptive Use = 6,146 af

Difference = 2,305 af

*Subject to final accounting.

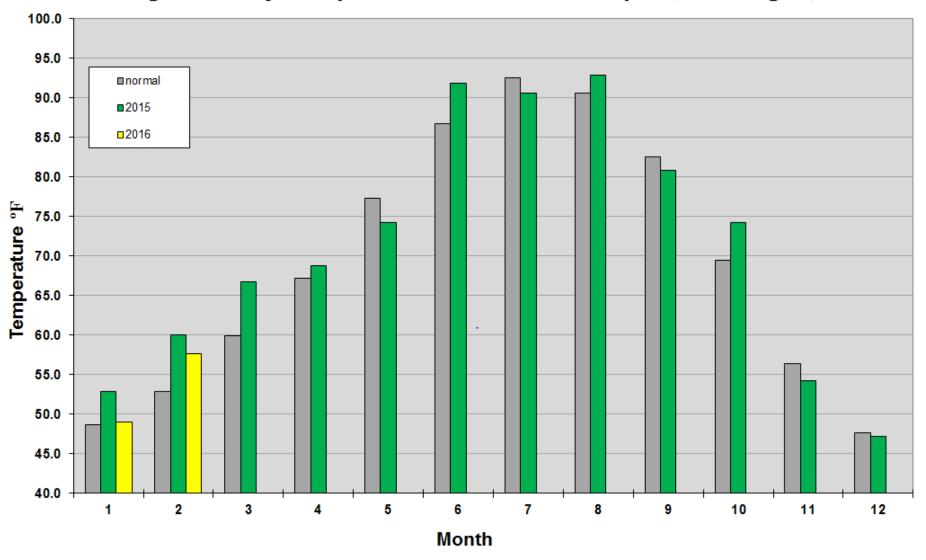


Monthly Precipitation at McCarran International Airport, Las Vegas, NV



Las Vegas Average Temperature

Average Monthly Temperature at McCarran Airport, Las Vegas, NV



Colorado River Commission of Nevada

Questions?

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