

Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update April 21, 2016



Unregulated Inflow Into Lake Powell

As of April 18, 2016

	MAF*	% Avg**
• WY 2016 (Projected):	8.44	78%
• April-July 2016 (Projected):	5.3	74%
• March (observed):	0.55	83%
• April (forecasted):	0.65	62%

***MAF=Million Acre-Feet**

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



Storage Conditions

As of April 18, 2016

Percent of
Capacity

Δ from last year

Lake Mead elev. 1,078.22 ft 38%  3.18 ft

Lake Powell elev. 3,591.22 ft 45%  0.57 ft

Total System
Storage (4/2016) 28.61 maf 48%  0.04 maf

Total System
Storage (4/2015) 28.57 maf 48%

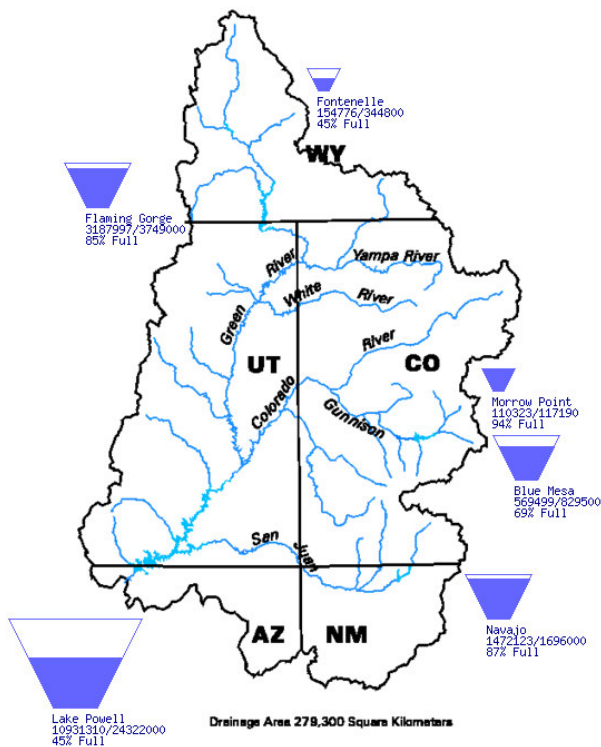


Reservoir Storage

As of April 16, 2016

Data Current as of:
04/17/2016

Upper Colorado River Drainage Basin



Colorado River Reservoir Storages

Basin	Reservoir	Max Storage	*Current Storage	Percentage	Current Storage subtotals
Upper Basin	Crystal Reservoir	17,356	16,737	96%	5,505,918
	Flaming Gorge	3,749,000	3,186,510	85%	
	Fontenelle	344,800	153,407	44%	
	Morrow Point	117,190	110,214	94%	
	Blue Mesa	829,500	569,268	69%	
	Navajo	1,696,000	1,469,782	87%	
	Lake Powell	24,322,000	10,930,398	45%	
Lower Basin	Lake Mead	26,120,000	9,871,000	38%	2,313,500
	Lake Mohave	1,809,800	1,725,500	95%	
	Lake Havasu	619,400	588,000	95%	
TOTAL		59,625,046	28,620,816	48%	

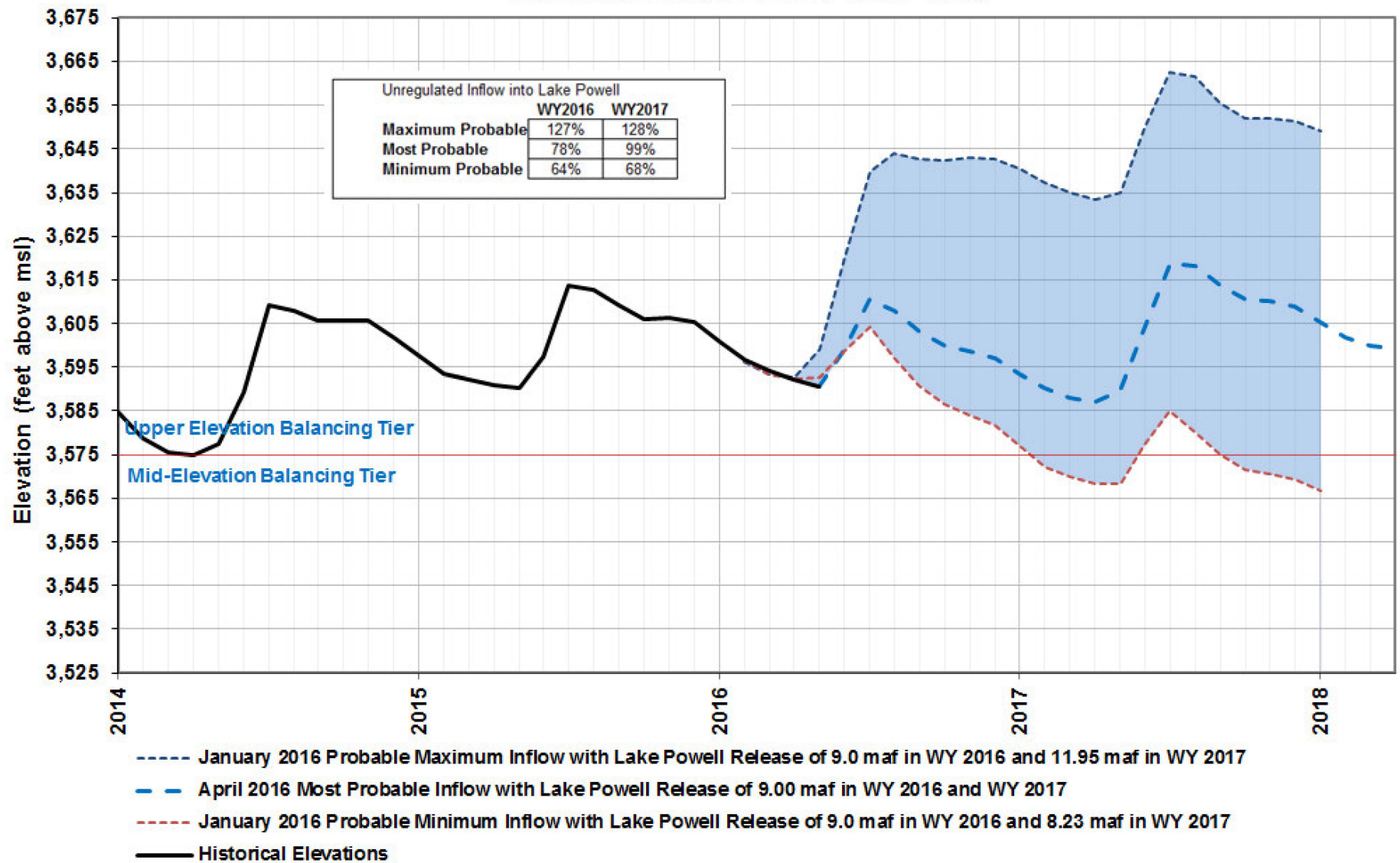
*Data current as 4/16/2016

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

<http://www.usbr.gov/uc/water/rsrvs/ops/r40day.html>

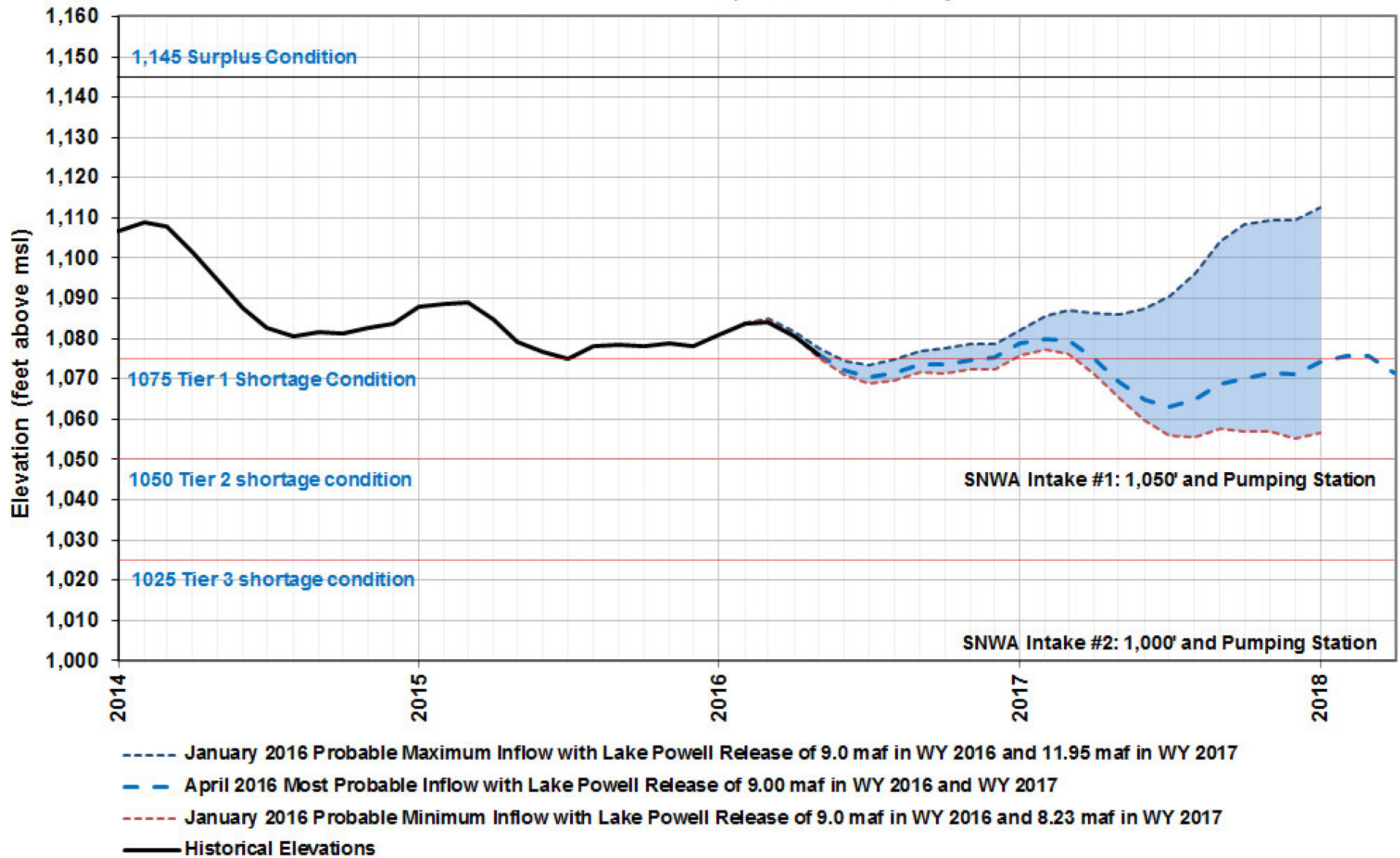
Lake Powell Projections

Reclamation's April 2016 24-Month Study



Lake Mead Projections

Reclamation's April 24-Month Study



U.S. Drought Monitor

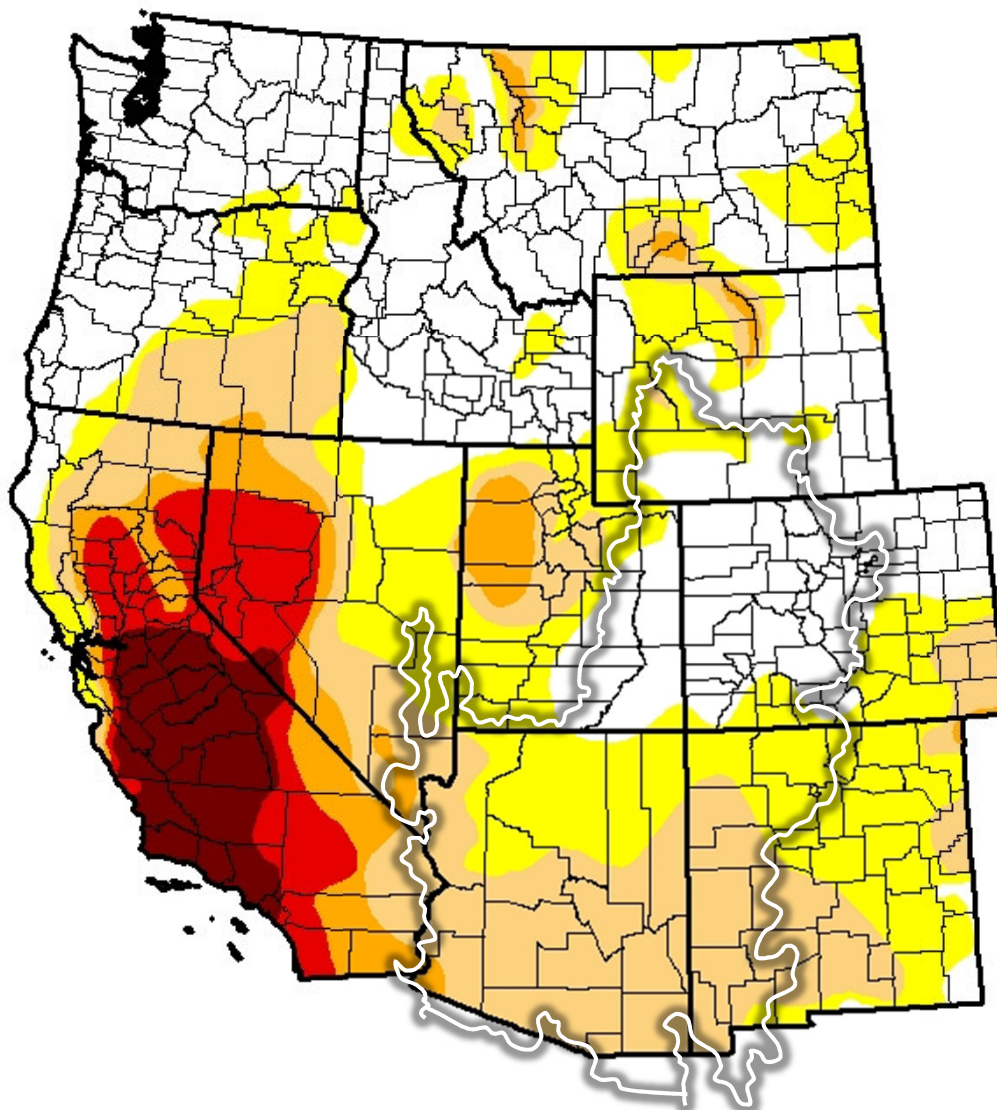
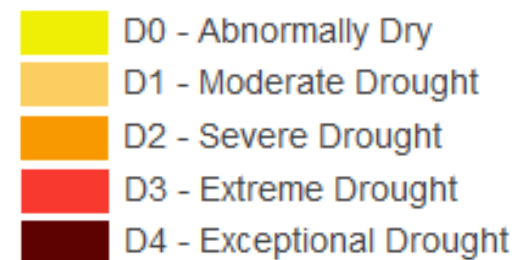
West

April 12, 2016

(Released Thursday, Apr. 14, 2016)

Valid 8 a.m. EDT

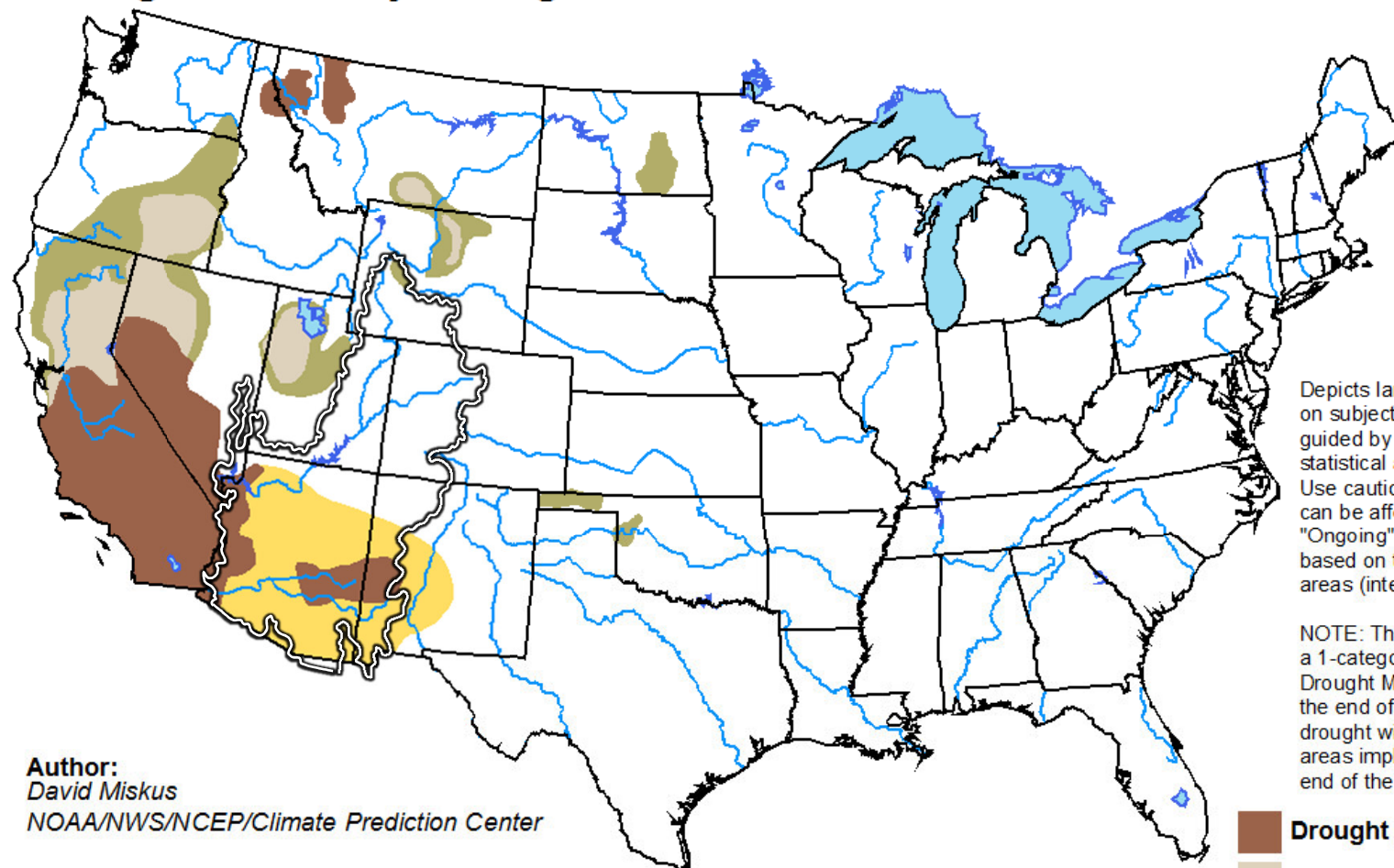
Intensity:



U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for March 17 - June 30, 2016
Released March 17, 2016

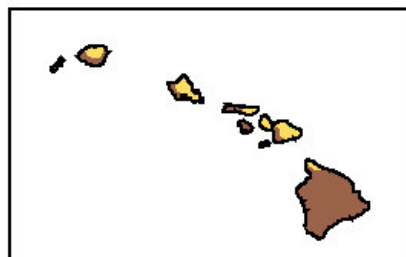
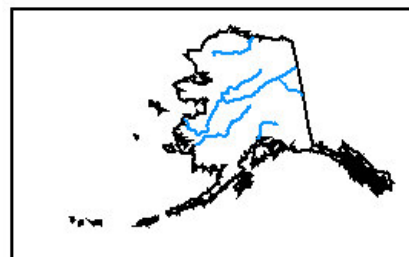


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
David Miskus
NOAA/NWS/NCEP/Climate Prediction Center

-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>

Precipitation – Colorado River Basin

As of April 18, 2016

Upper Colorado Basin

WY Precip to Date

94% (18.5")

Current Basin Snowpack

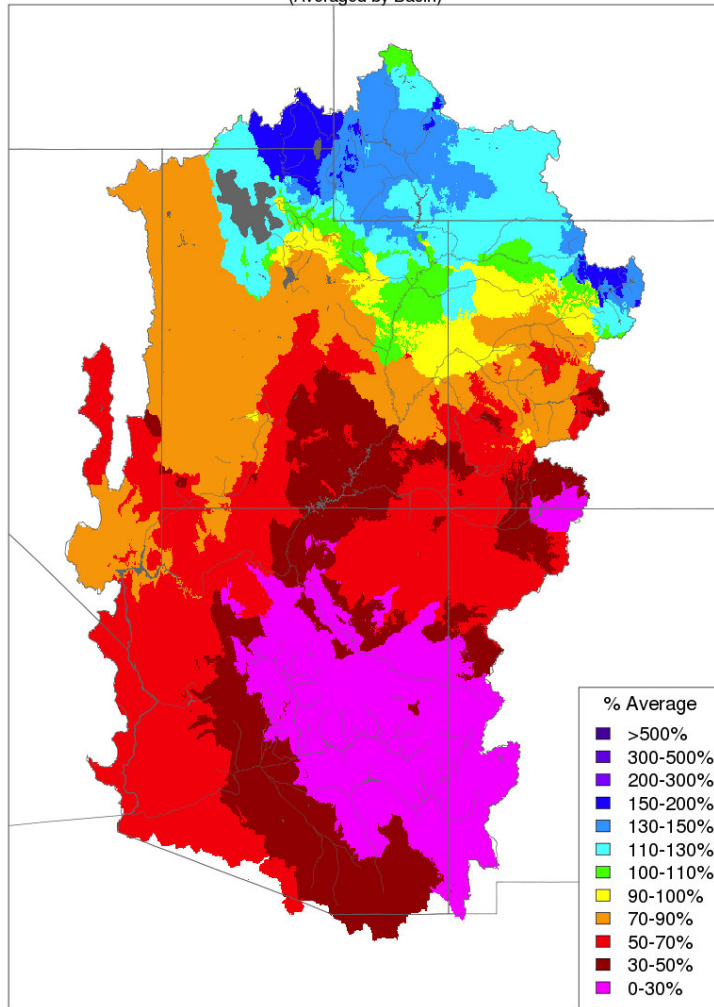
88% (12.7")

(Avg 1981-2010)



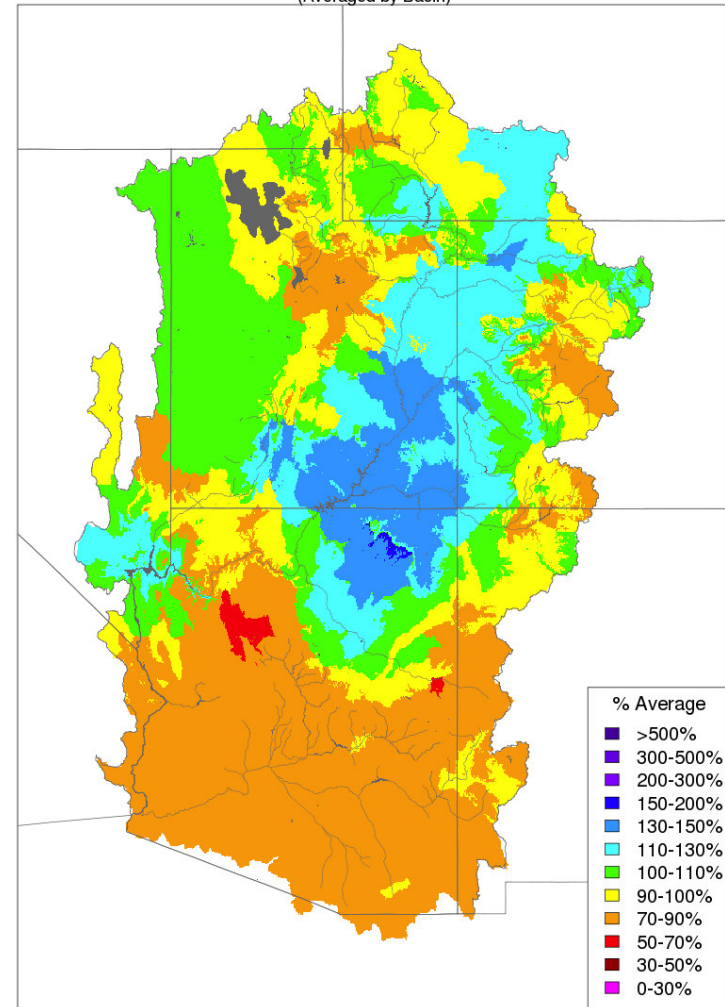
Precipitation

Monthly Precipitation - March 2016
(Averaged by Basin)



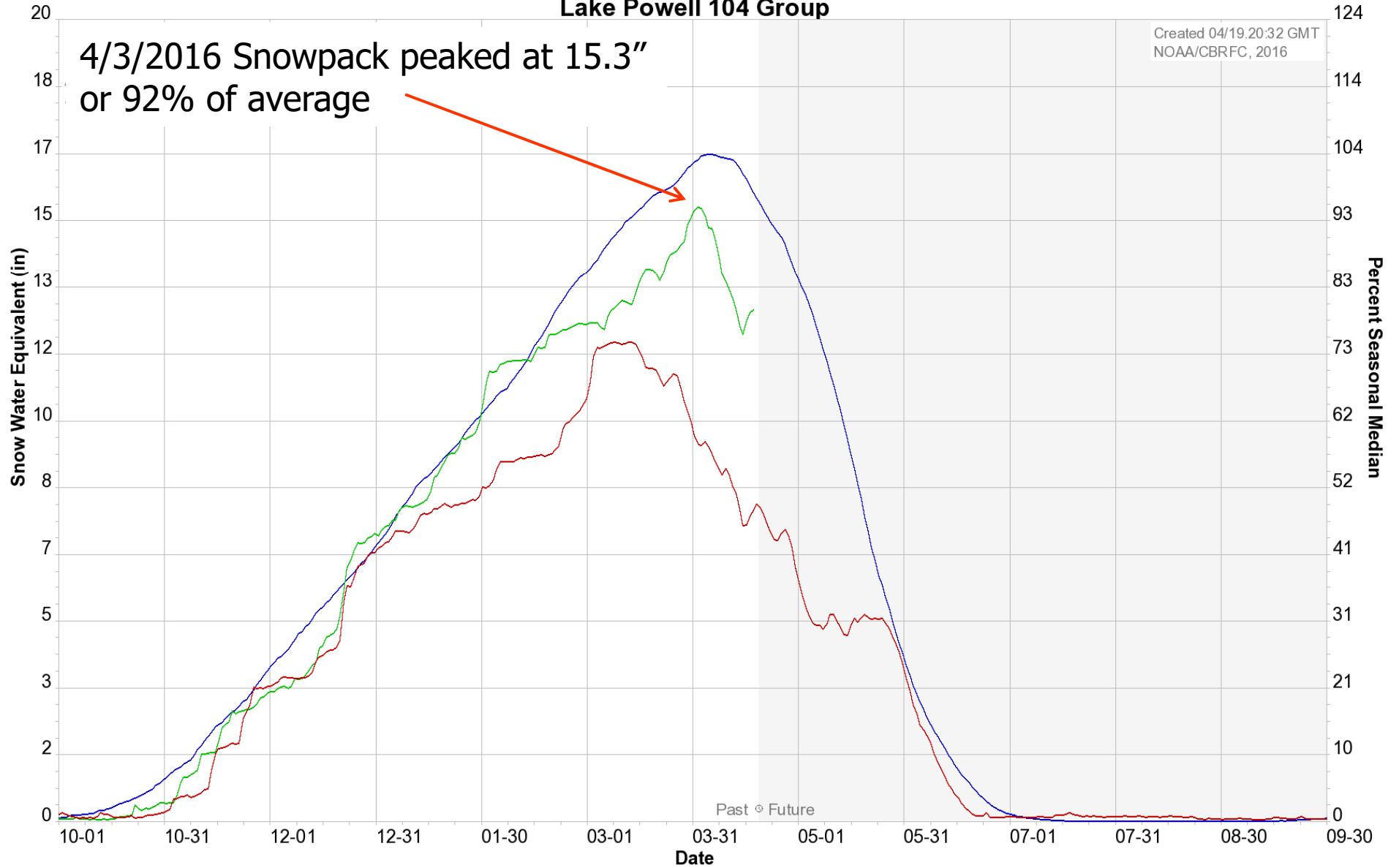
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Water Year Precipitation, October 2015 - March 2016
(Averaged by Basin)



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

Colorado Basin River Forecast Center
Lake Powell 104 Group

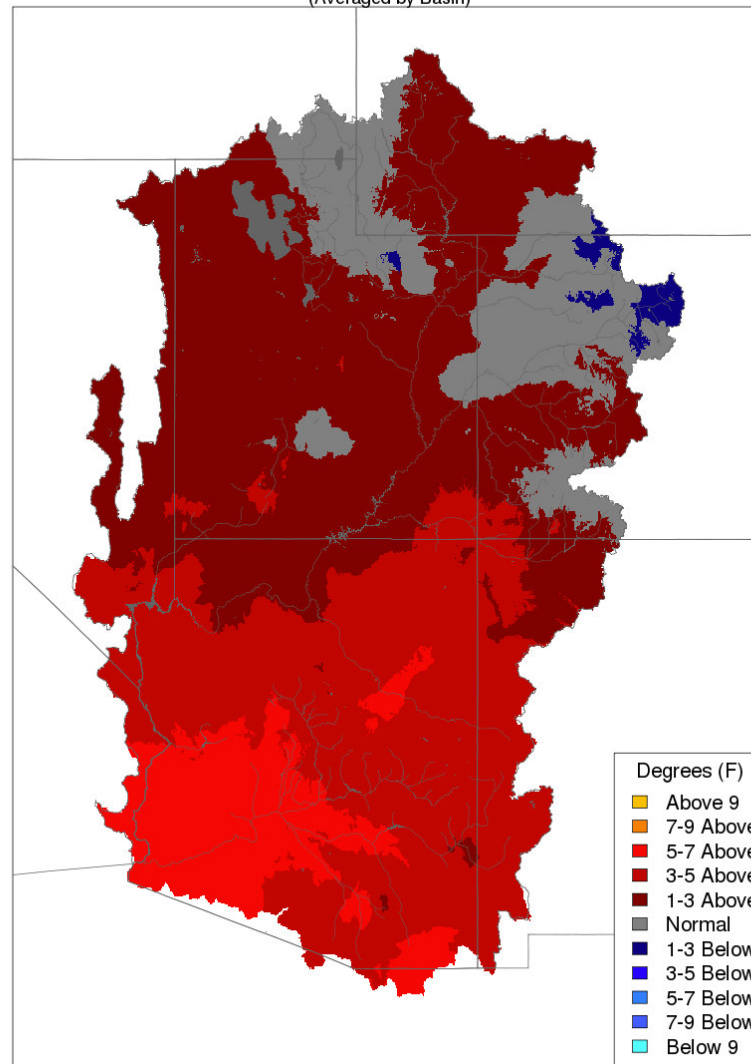


Temperature Deviations

Monthly Averaged Temperature Anomaly

Max Temp - Monthly Deviation - March 2016

(Averaged by Basin)



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 – March 2016

2016*: Consumptive Use = 36,914 af

2015*: Consumptive Use = 28,630 af

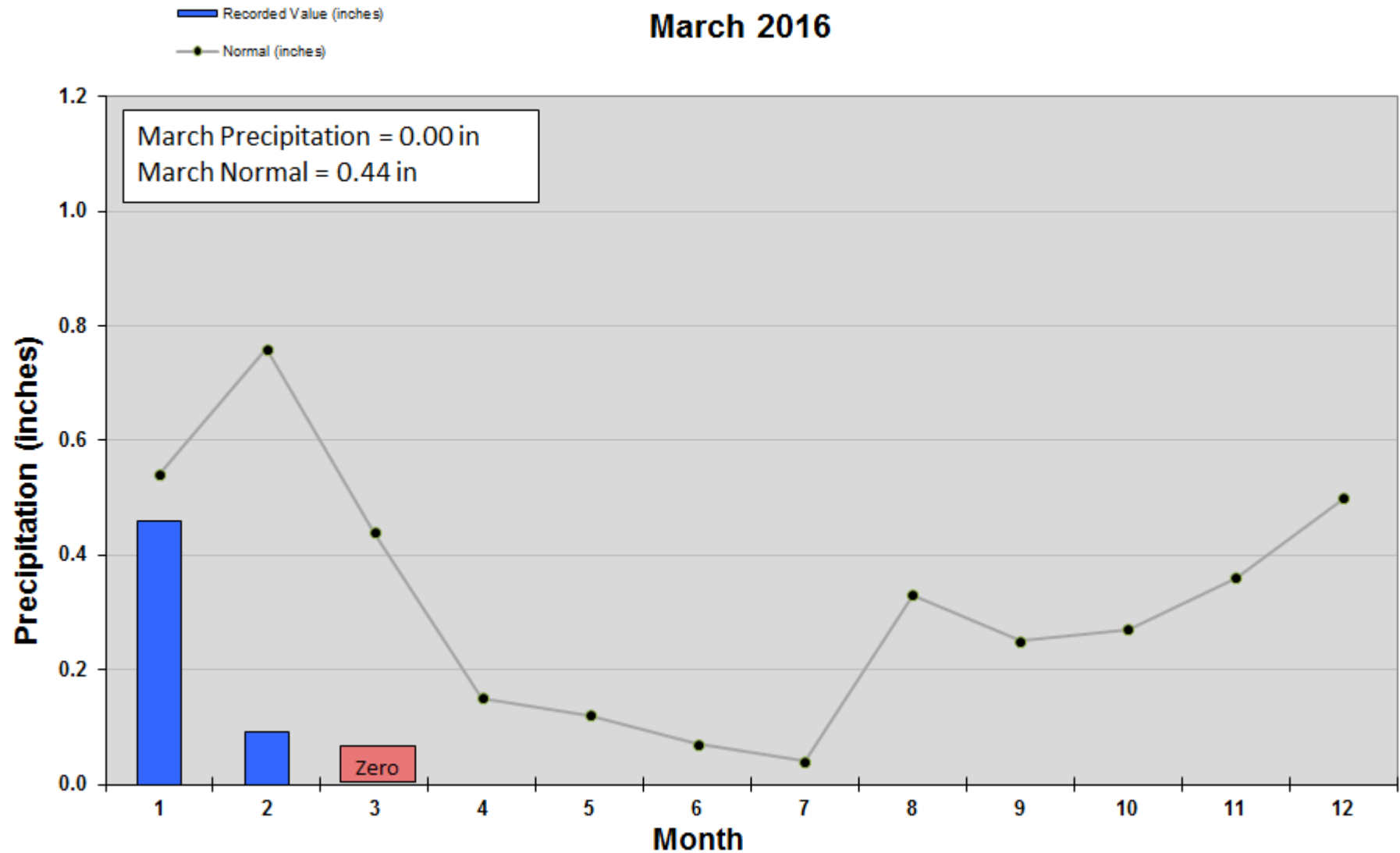
Difference = 8,284 af

*Subject to final accounting.



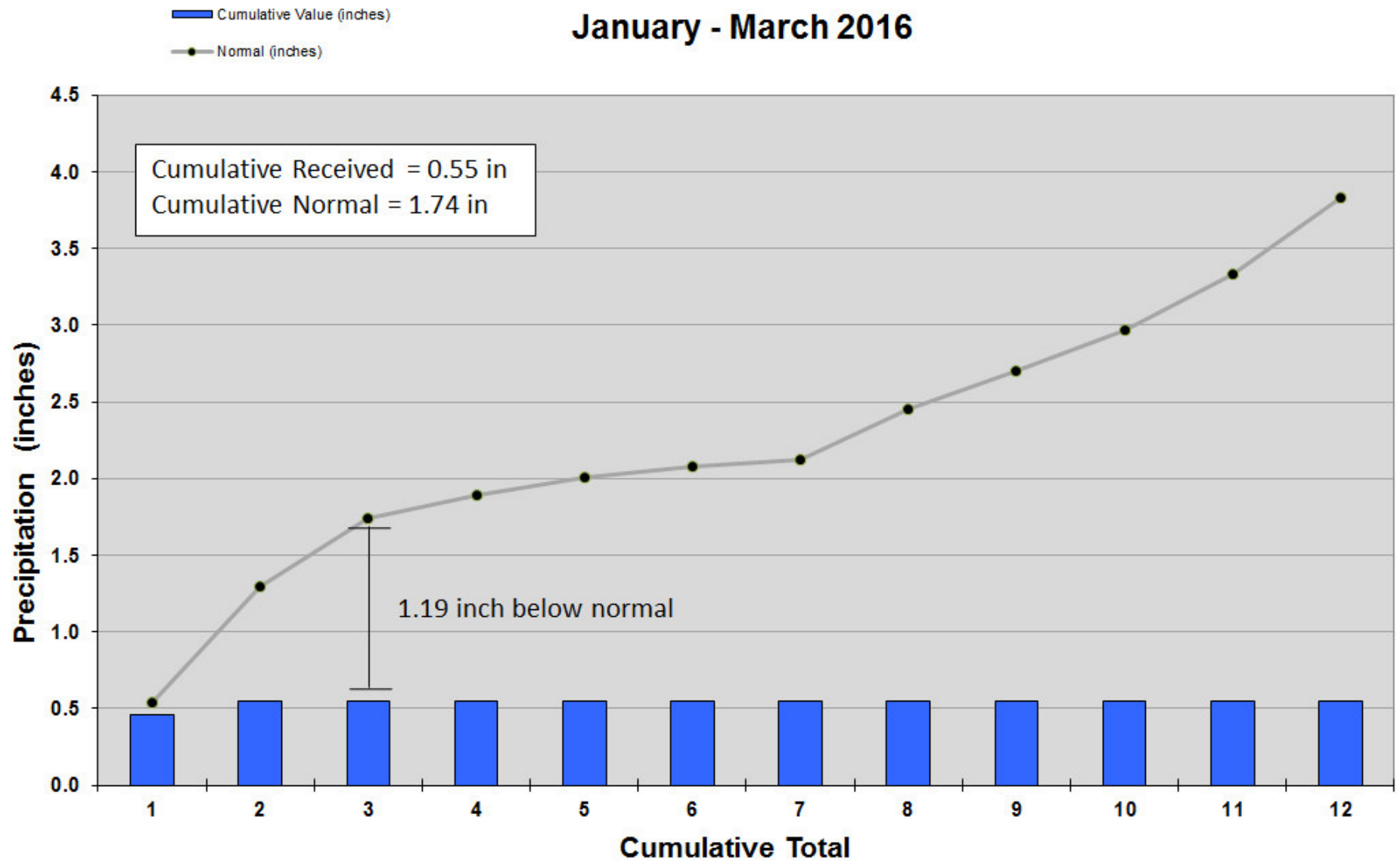
Monthly Precipitation at McCarran International Airport, Las Vegas, NV

March 2016



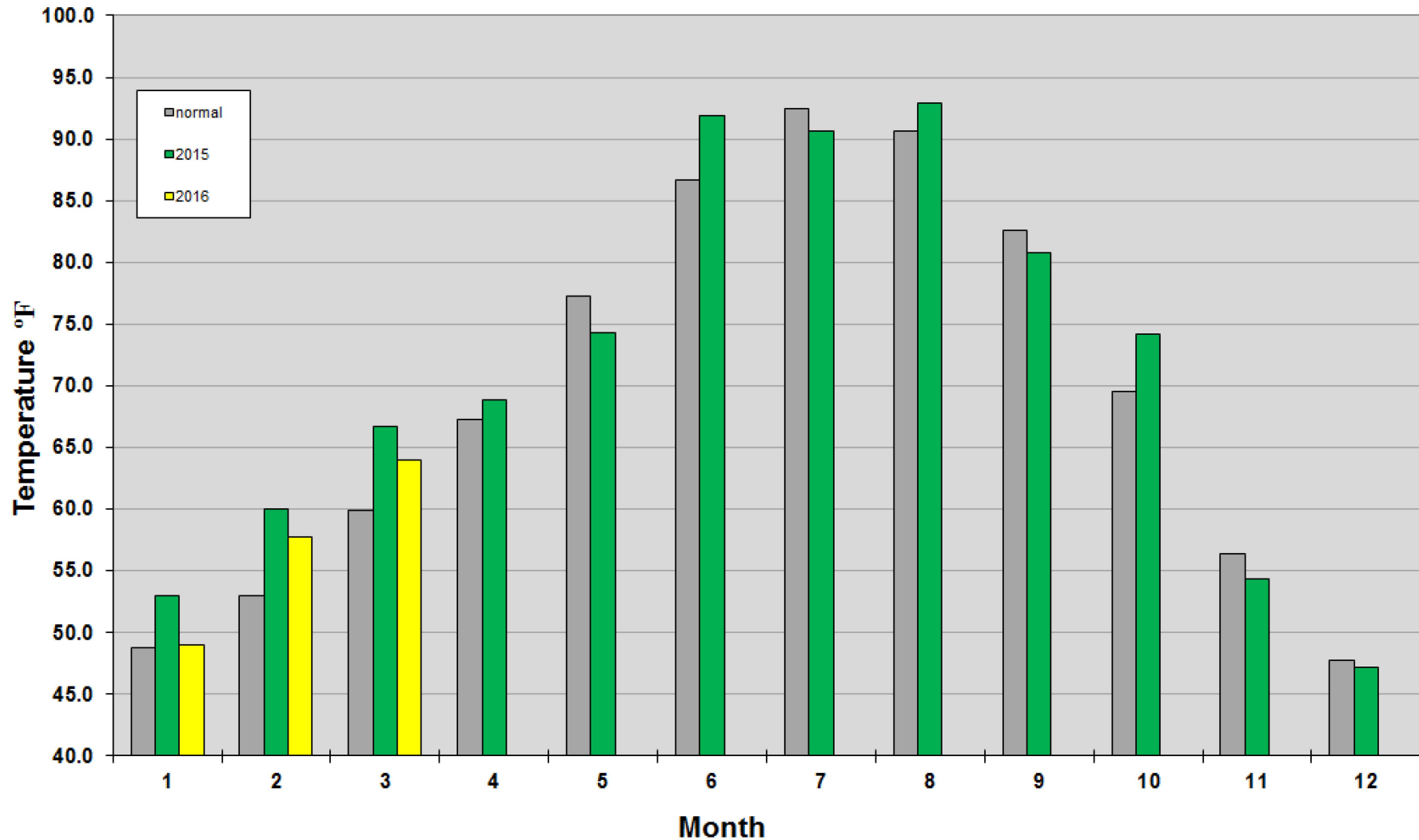
Cumulative Precipitation at McCarran International Airport, Las Vegas, NV

January - March 2016

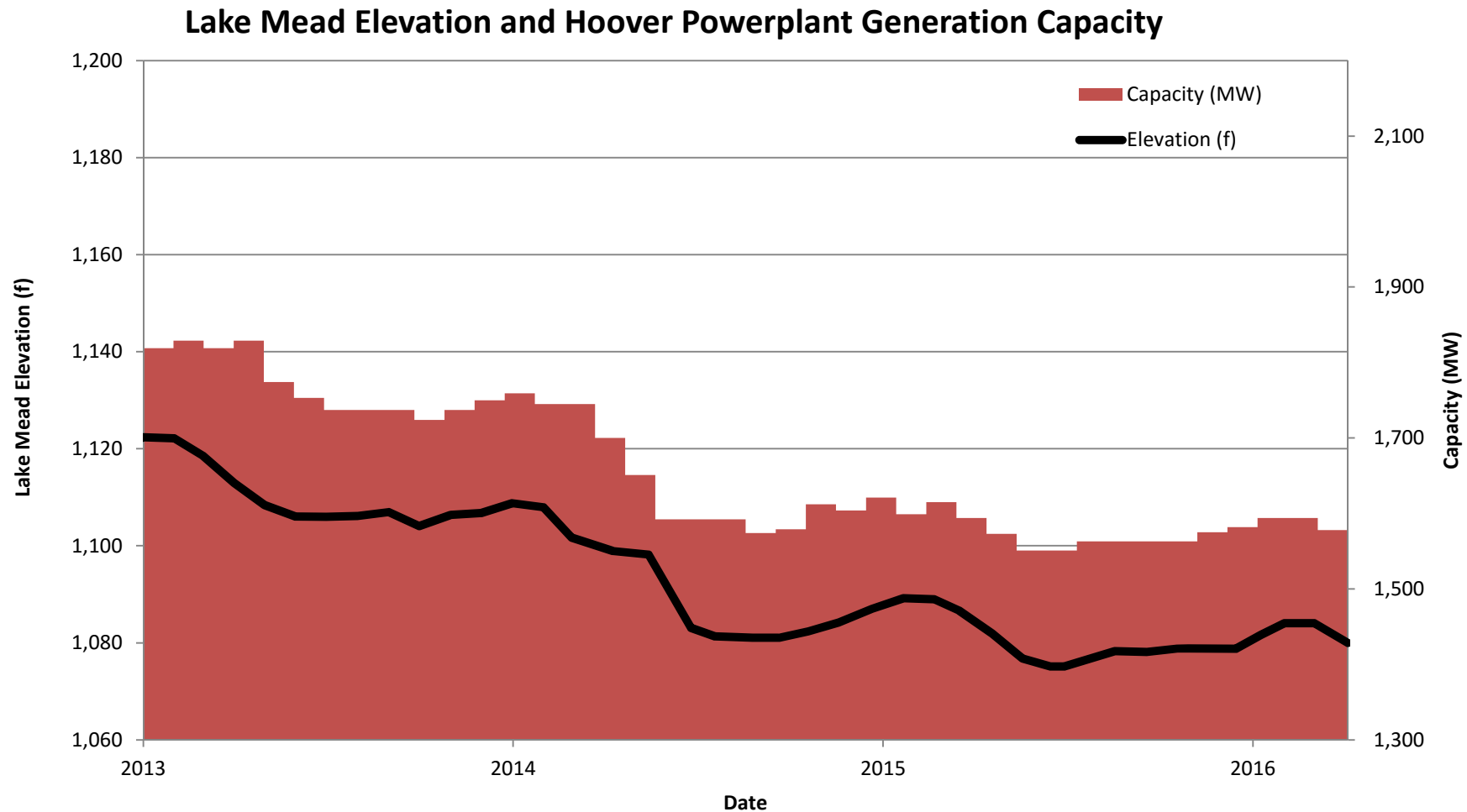


Las Vegas Average Temperature

Average Monthly Temperature at McCarran Airport, Las Vegas, NV



Hydropower Capacity



- On April 7, 2016 capacity was decreased 16 MW to 1,578 MW.

Colorado River Commission of Nevada

Questions?

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