

Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update July 14, 2015



Unregulated Inflow Into Lake Powell

As of July 13, 2015

	MAF*	% Avg**
• WY 2015 (forecast):	9.83	91%
• April-July 2015 (forecast):	6.29	88%
• June (observed):	3.39	127%
• July (forecasted):	.65	60%

***MAF=Million Acre-Feet**

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



Storage Conditions

As of July 13, 2015

Percent of
Capacity

Δ from last year

Lake Mead elev. 1075.79 ft 37%  6.11 ft

Lake Powell elev. 3,614.25 ft 54%  4.63 ft

Total System
Storage (7/2015) 31.40 maf 53%  0.71 maf

Total System
Storage (7/2014) 30.69 maf 51%



Reservoir Storage

As of July 6, 2015

Colorado River Reservoir Storages

Basin	Reservoir	Max Storage	*Current Storage	Percentage	Current Storage subtotals
Upper Basin	Crystal Reservoir	17,356	17,159	99%	6,230,809
	Flaming Gorge	3,749,000	3,525,692	94%	
	Fontenelle	344,800	285,913	83%	
	Morrow Point	117,190	116,531	99%	
	Blue Mesa	829,500	821,638	99%	
	Navajo	1,696,000	1,463,876	86%	
	Lake Powell	24,322,000	13,125,848	54%	
Lower Basin	Lake Mead	26,120,000	9,633,000	37%	2,326,900
	Lake Mohave	1,809,800	1,718,900	95%	
	Lake Havasu	619,400	608,000	98%	
	TOTAL	59,625,046	31,316,557	53%	

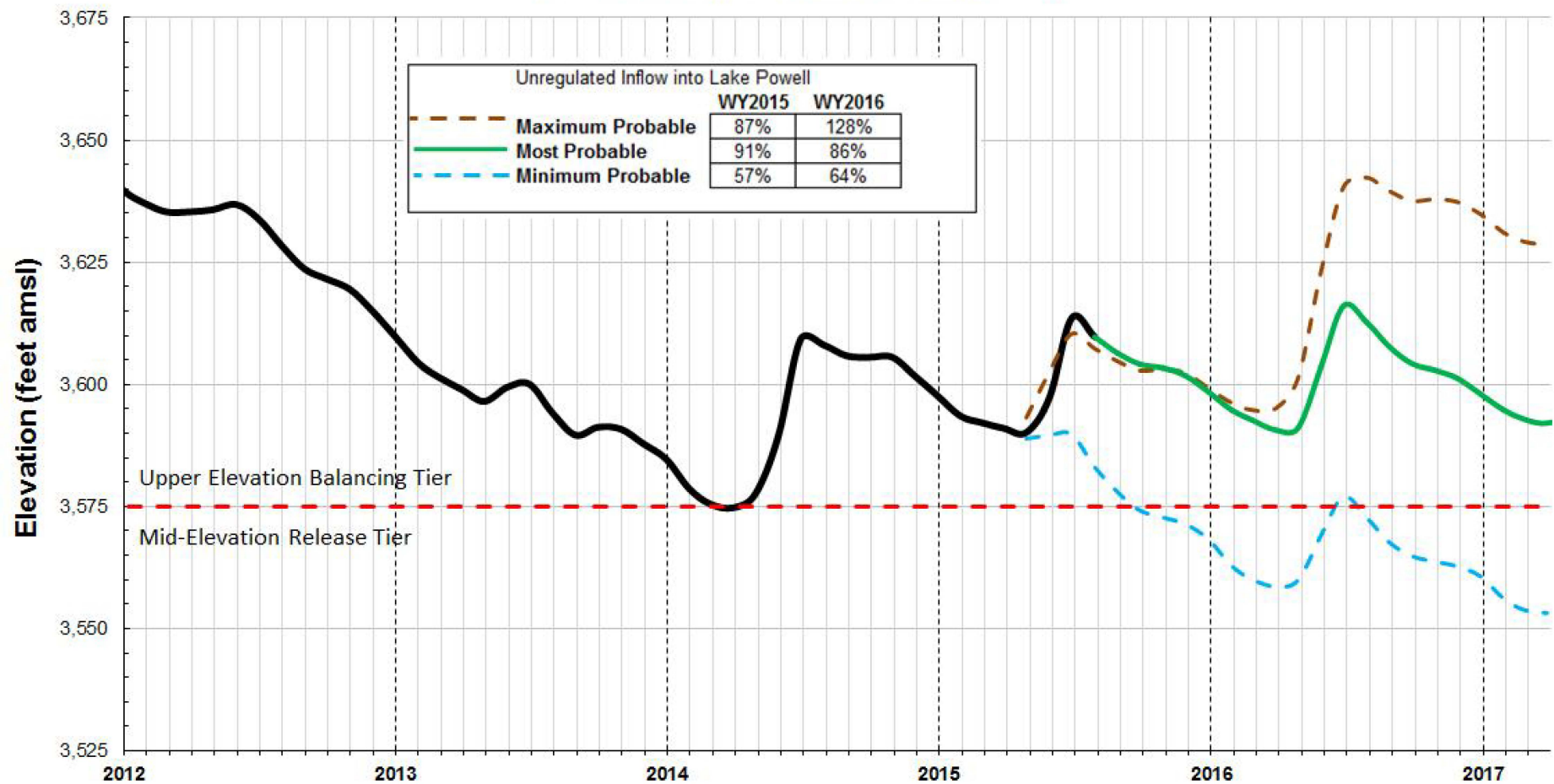
*Data current as 6/4/2015

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

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

Lake Powell End of Month Elevations

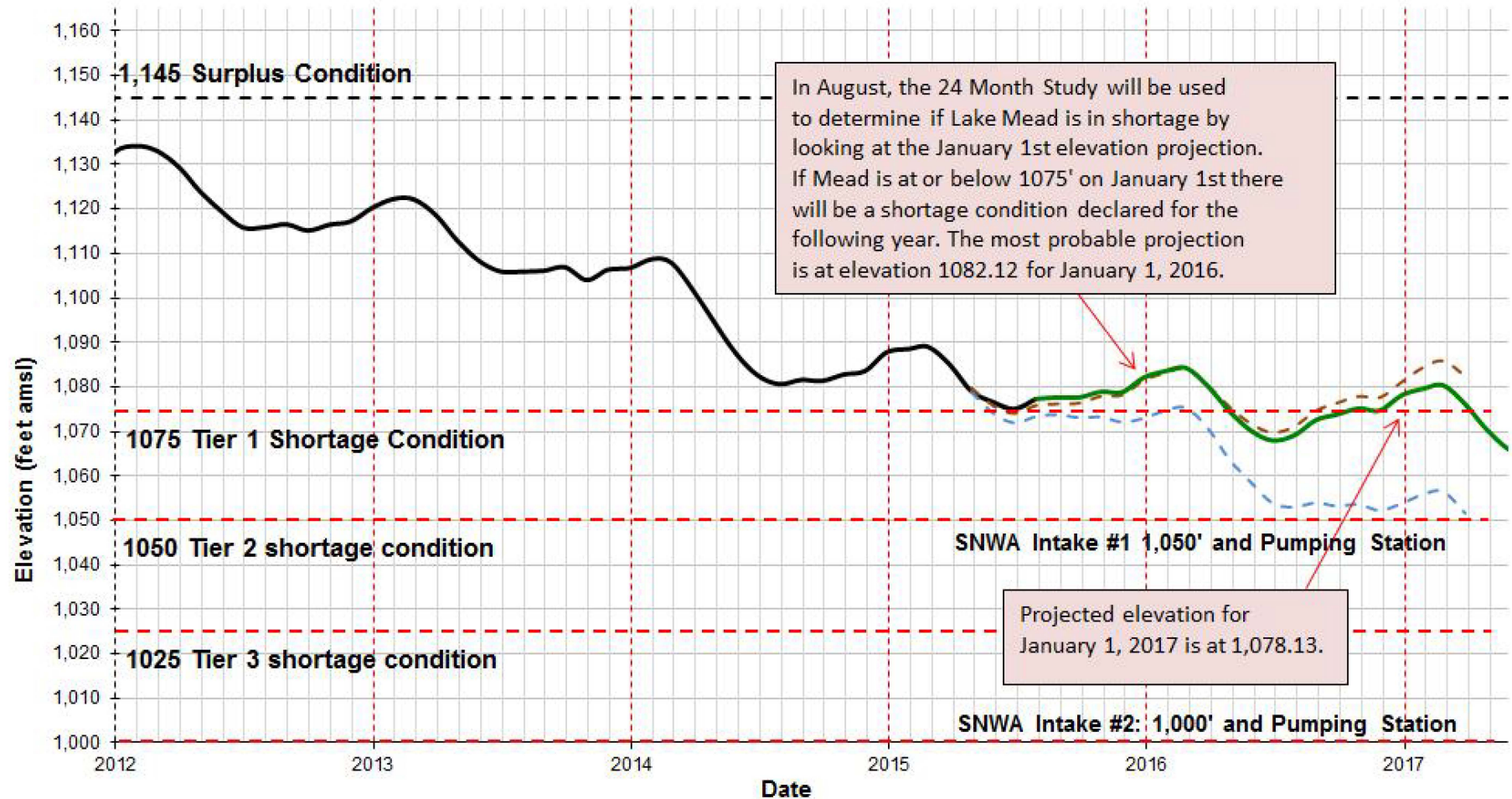
(based on July 2015 24-month Study)



- Actual Data - End of month measurements
- - - Maximum Probable - Lake Powell Release of 9.0 maf in WY2015 and 9.0 maf in WY2016
- Most probable - Lake Powell Release of 9.0 maf in WY2015 and 9.0 maf in WY2016
- - - Minimum Probable - Lake Powell Release of 8.93 maf in WY2015 and 7.48 maf in WY2016

Lake Mead End of Month Elevation Projections

(Projections based on the July 2015 24-month study)



— Actual Data - End of month measurements

- - - Maximum Probable - Lake Powell Release of 9.0 maf in WY2015 and 9.0 maf in WY2016

— Most probable - Lake Powell Release of 9.0 maf in WY2015 and 9.0 maf in WY2016

- - - Minimum Probable - Lake Powell Release of 8.93 maf in WY2015 and 7.48 maf in WY2016

U.S. Drought Monitor






West

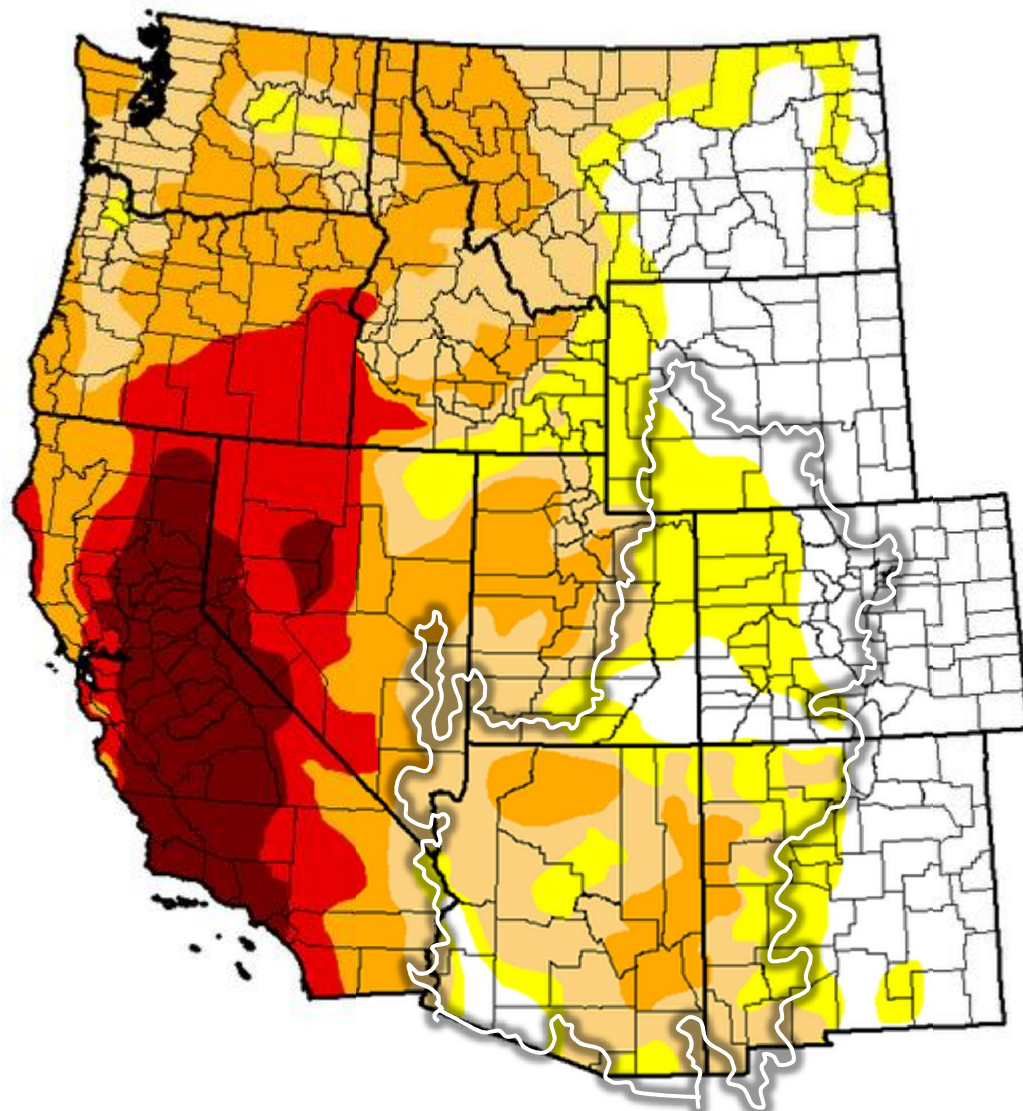
June 30, 2015

(Released Thursday July 2, 2015)

Valid 8 a.m. EDT

Intensity:

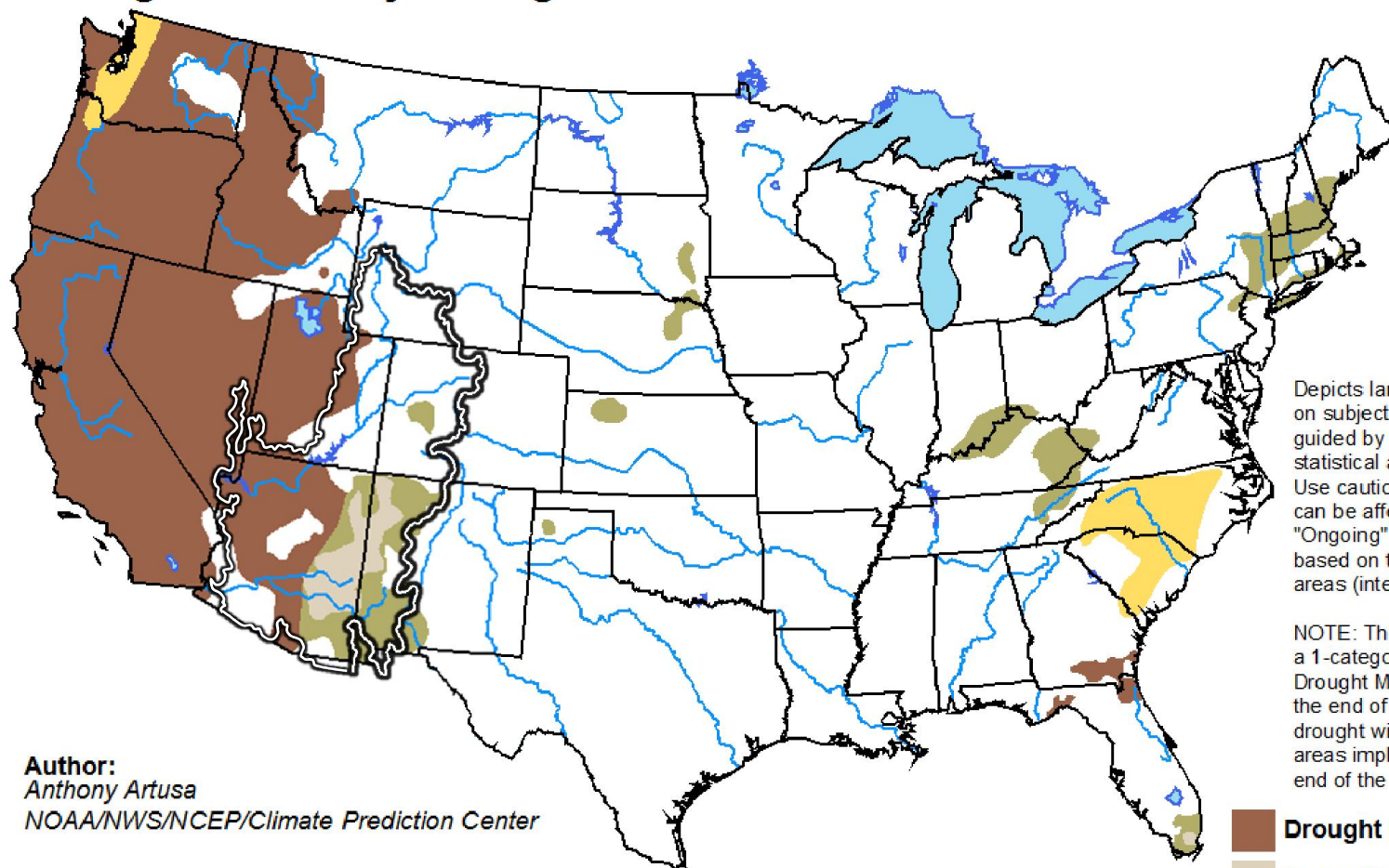
-  D0 - Abnormally Dry
-  D1 - Moderate Drought
-  D2 - Severe Drought
-  D3 - Extreme Drought
-  D4 - Exceptional Drought



U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period





Valid for June 18 - September 30, 2015
Released June 18, 2015



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).

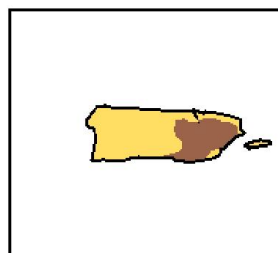
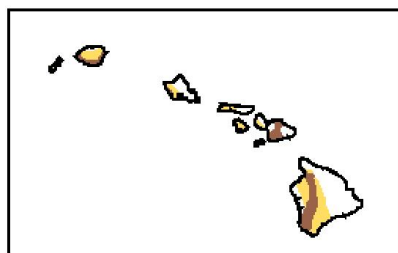
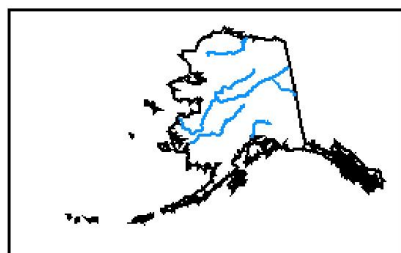
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center

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



<http://go.usa.gov/hHTe>



Precipitation – Colorado River Basin

As of July 13, 2015

Upper Colorado Basin

WY Precip to Date

94% (23.9")

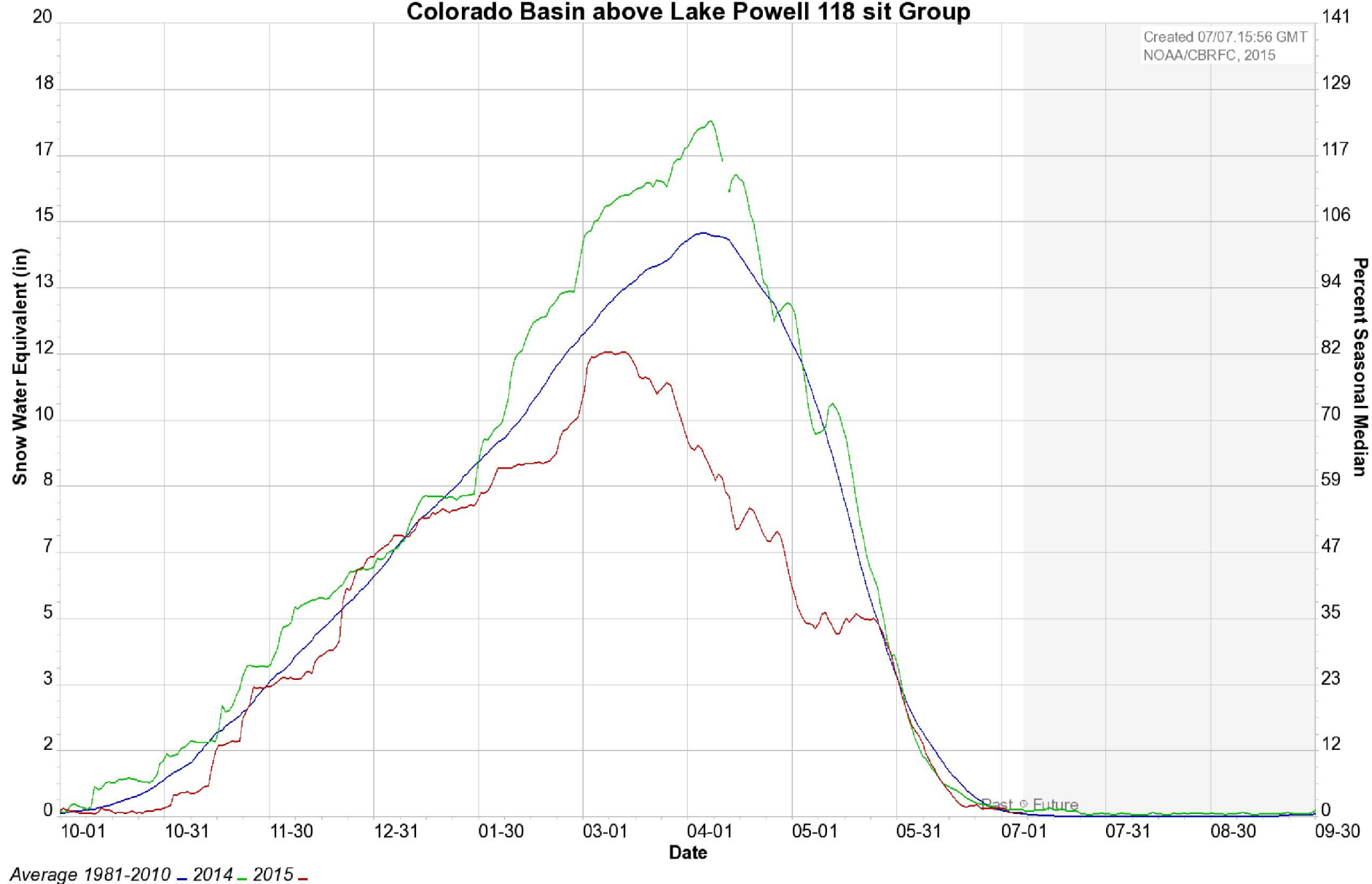
Current Basin Snowpack

NA

(Avg 1981-2010)



Colorado Basin River Forecast Center
Colorado Basin above Lake Powell 118 sit Group

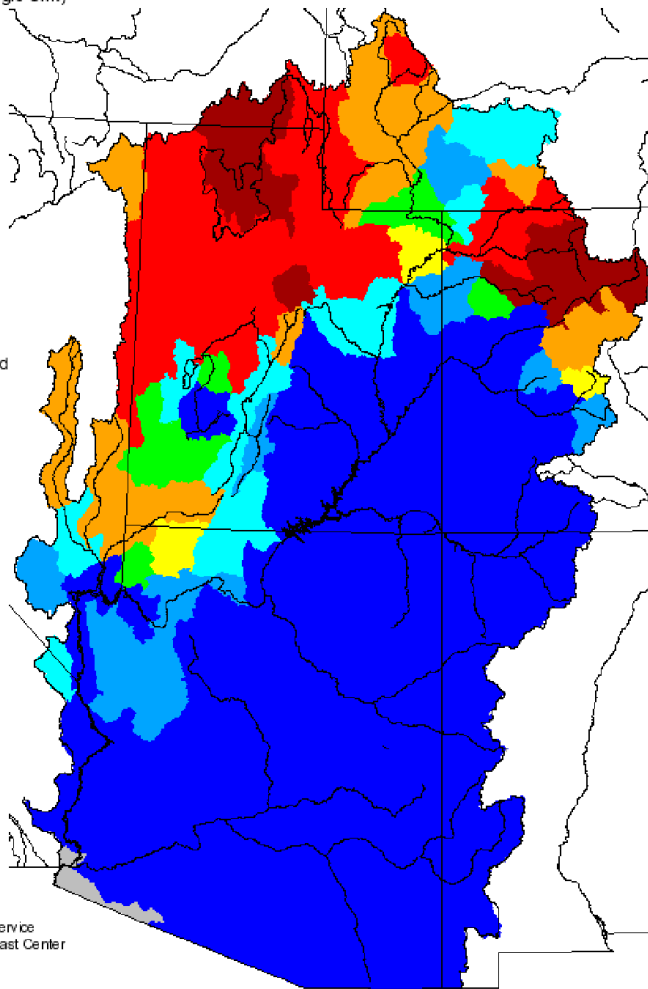
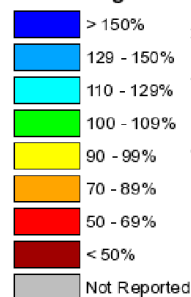


Precipitation

Monthly Precipitation for June 2015

(Averaged by Hydrologic Unit)

% Average

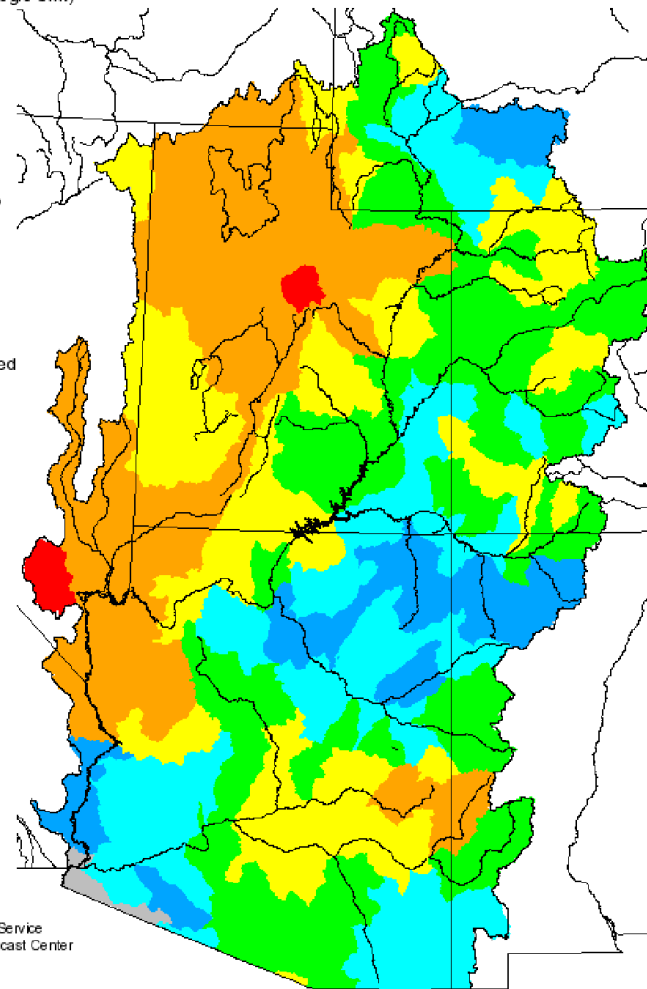
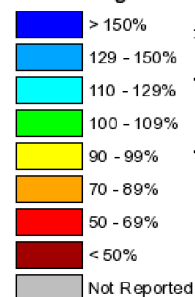


Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

Seasonal Precipitation, October 2014 - June 2015

(Averaged by Hydrologic Unit)

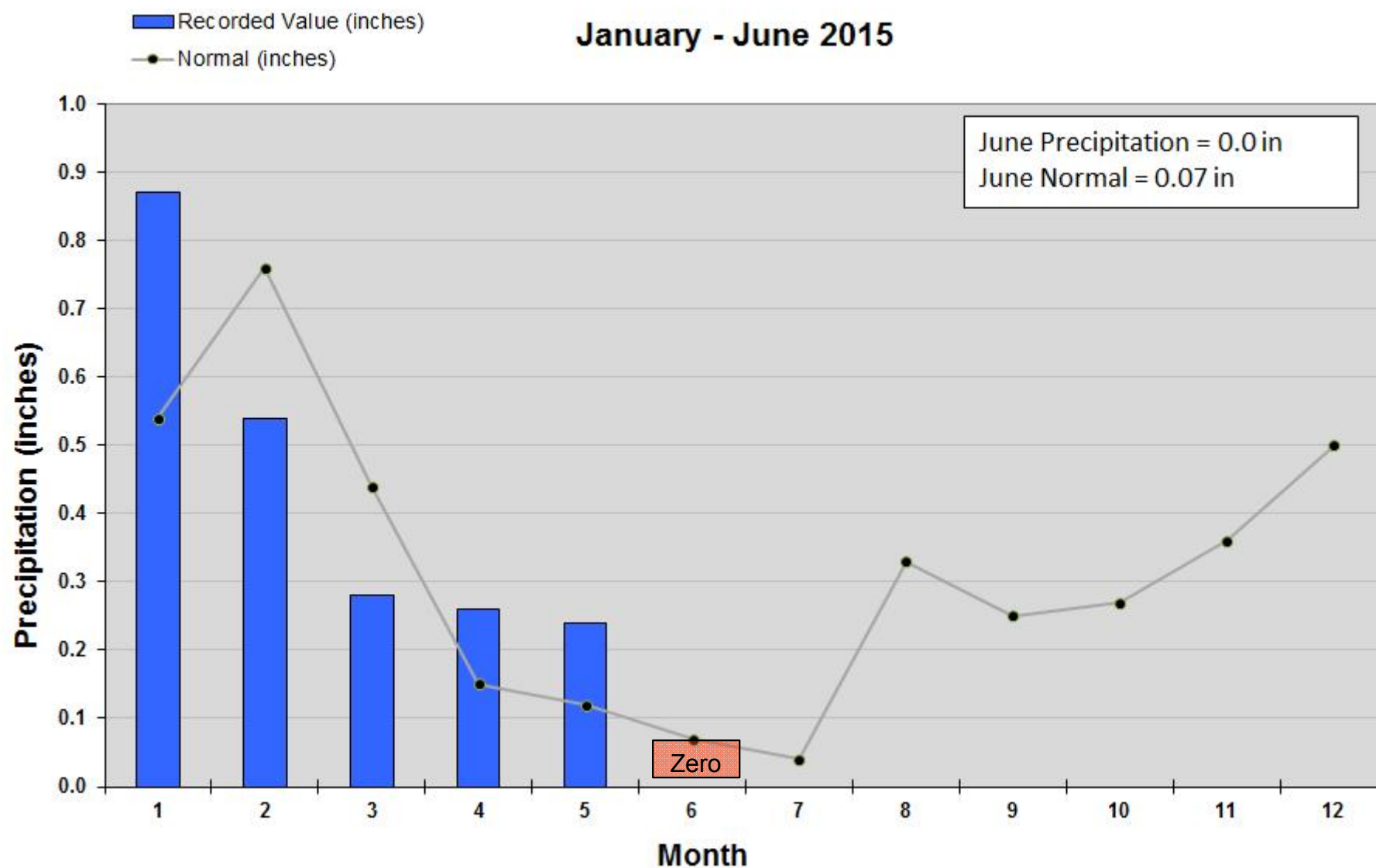
% Average



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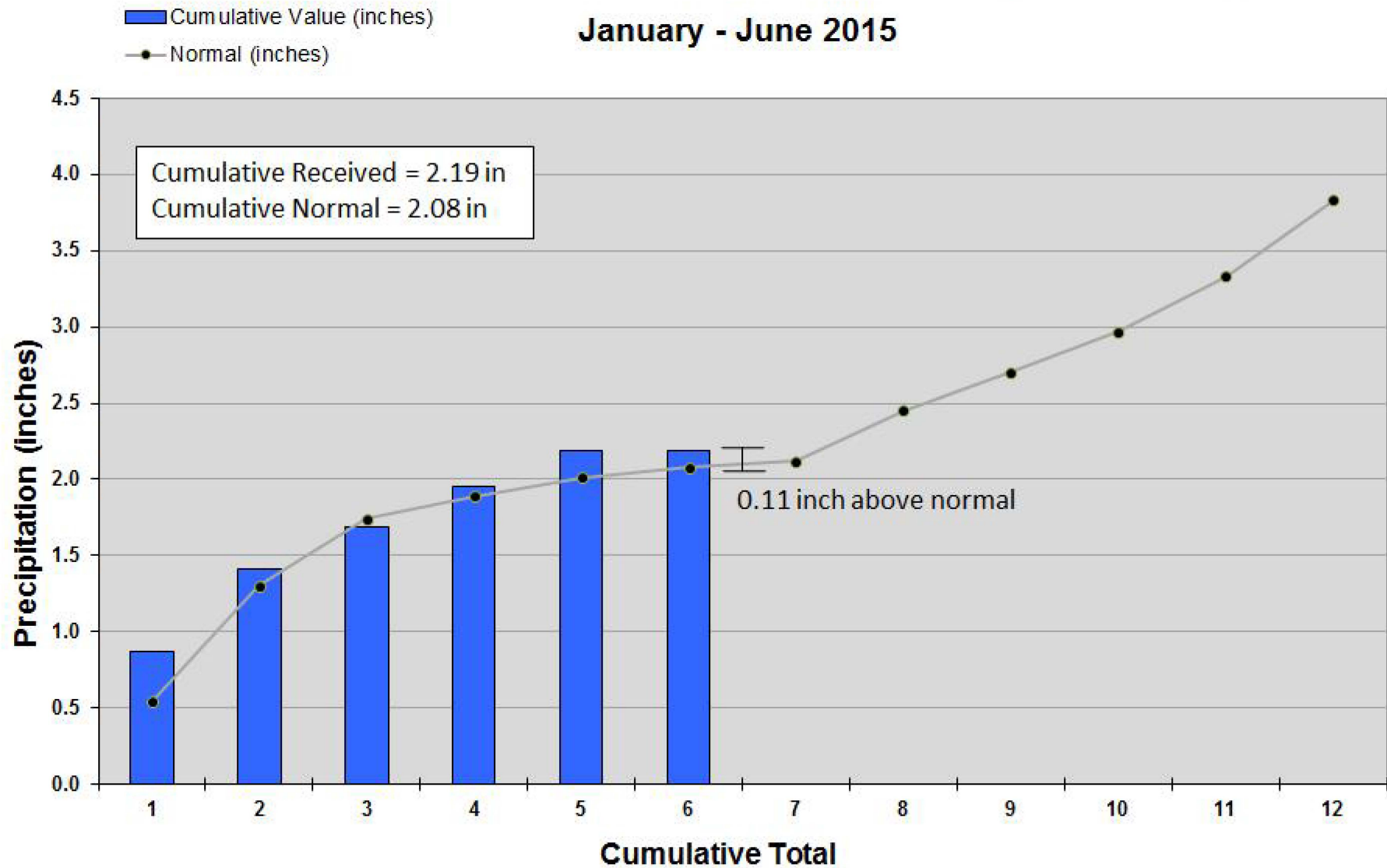
Monthly Precipitation at McCarran International Airport, Las Vegas, NV

January - June 2015



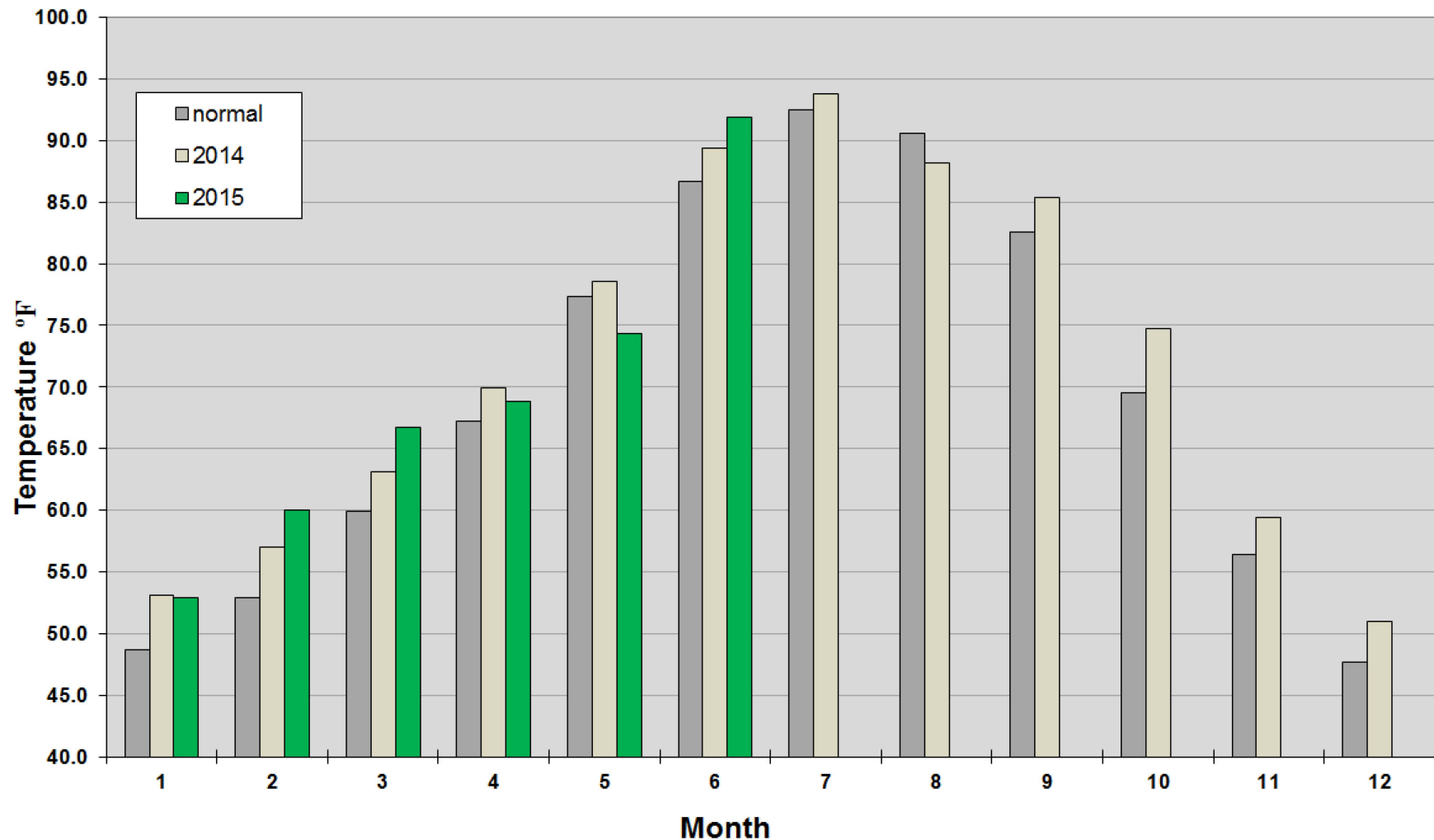
Cumulative Precipitation at McCarran International Airport, Las Vegas, NV

January - June 2015

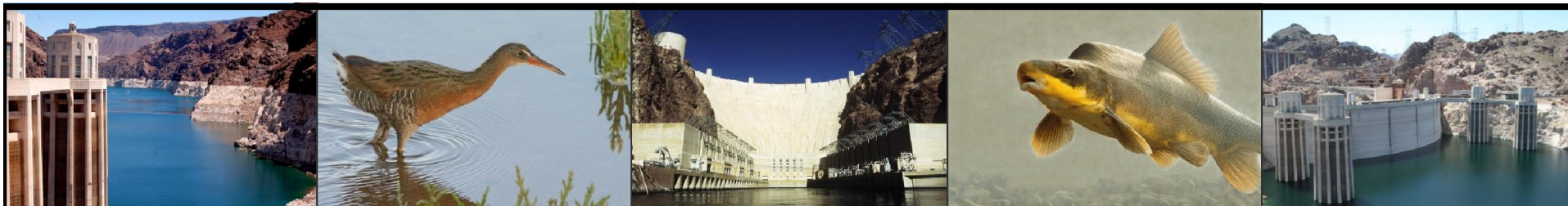


Las Vegas Average Temperature

Average Monthly Temperature at McCarran Airport, Las Vegas, NV



Water Use in Southern Nevada



Water Use in Southern Nevada

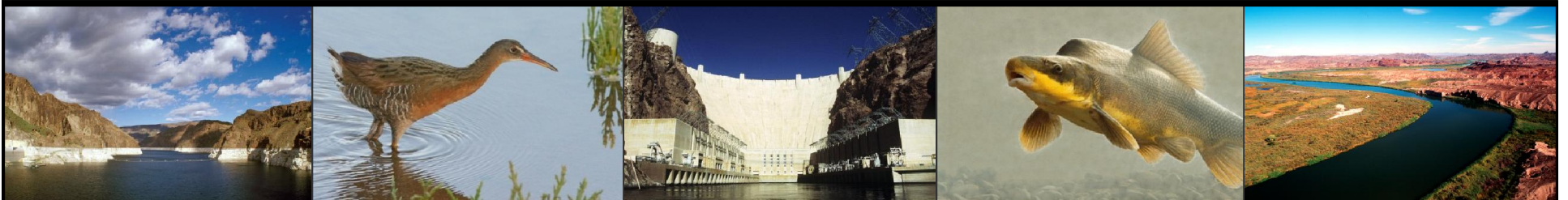
January – May 2015

2015*: Consumptive Use = 74,684 af

2014*: Consumptive Use = 81,206 af

Difference = -6,522 af

*Subject to final accounting.



Colorado River Commission of Nevada

Questions?

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