

# Colorado River Commission of Nevada

## Natural Resources Group Hydrologic Update February 11, 2014



# Unregulated Inflow



# Unregulated Inflow Into Lake Powell

As of February 10, 2014

	MAF*	% Avg**
• WY 2014 (forecasted):	10.42	96%
• April-July 2014 (forecasted):	7.25	101%
• Jan (observed):	0.27	75%
• Feb (forecasted):	0.30	76%

\*MAF=Million Acre-Feet

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



# Storage Conditions

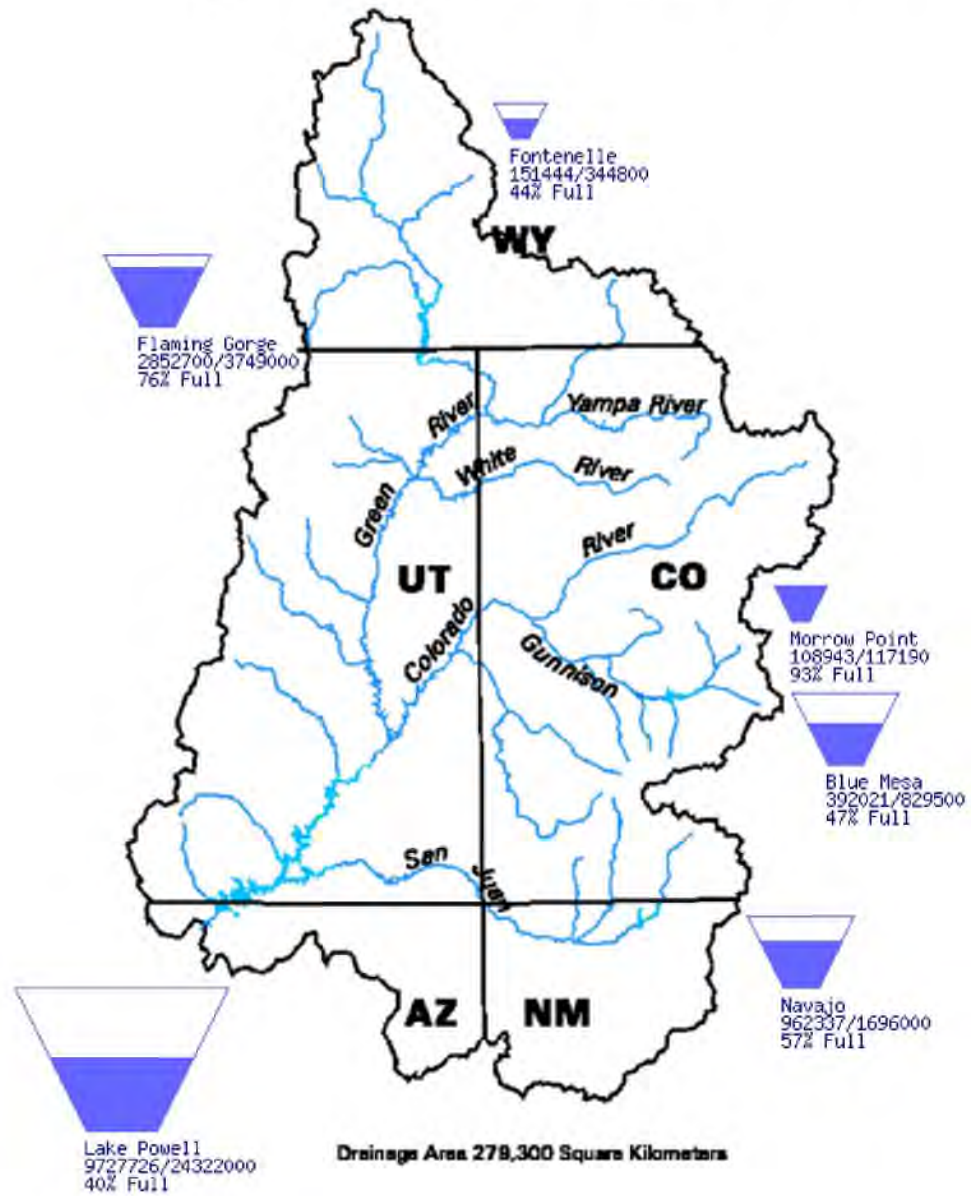
As of February 10, 2014

		<u>Percent of Capacity</u>	<u>Δ from last year</u>
Lake Mead elev.	1,108.26 ft	48%	↓ 14.25 ft
Lake Powell elev.	3,577.59 ft	40%	↓ 25.89 ft
Total System Storage (2/2014)	28.95 maf	49%	↓ 3.77 maf
Total System Storage (2/2013)	32.72 maf	55%	



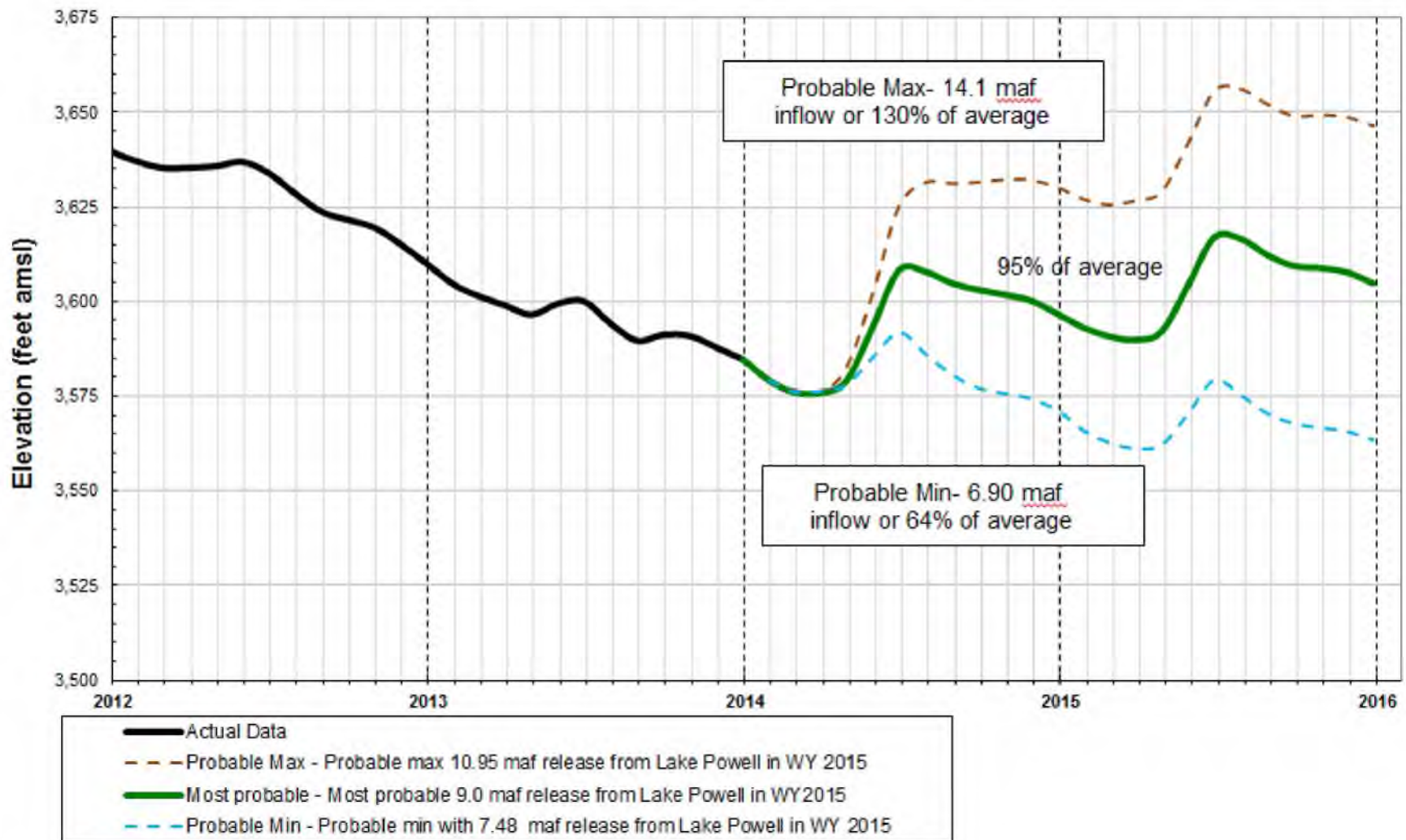
Data Current as of:  
02/18/2014

## Upper Colorado River Drainage Basin

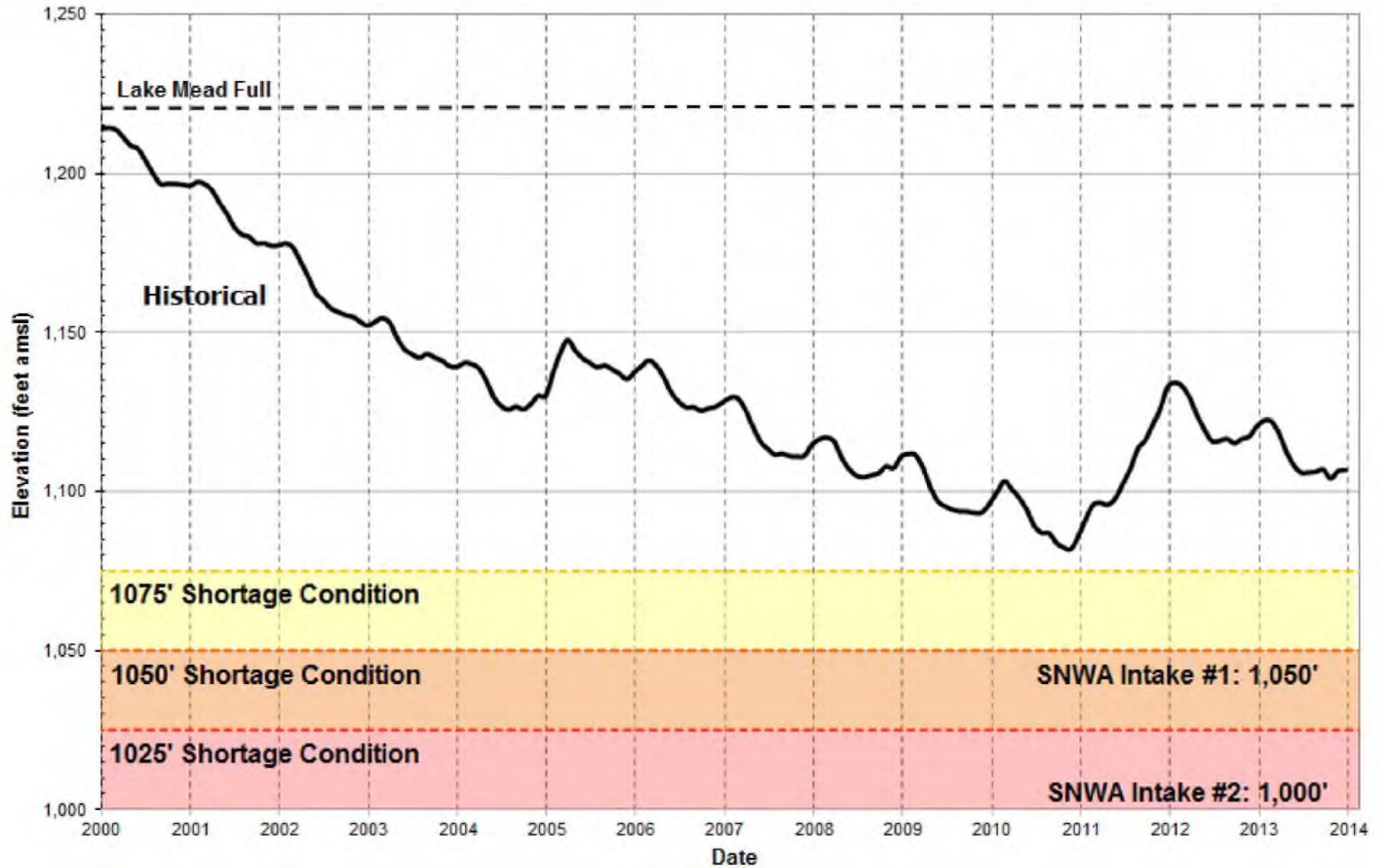


# Lake Powell End of Month Elevations

(based on January 2014 24-month Study)

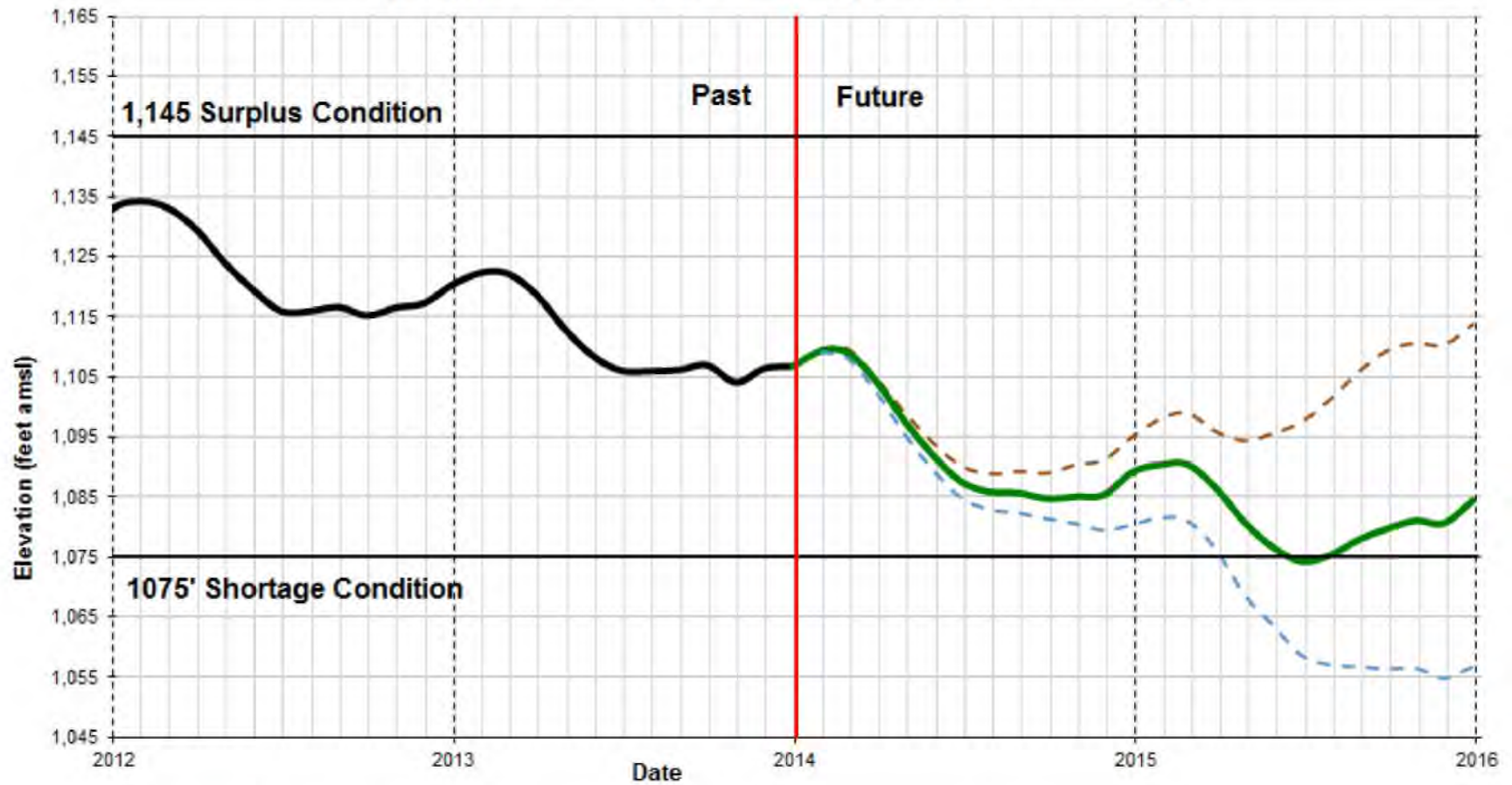


# Lake Mead Elevation 2000-2014



# Lake Mead End of Month Elevation Projections

(Projections based on the January 2014 24-month study)



- Actual Data
- - - Probable Max - Probable max 10.95 maf release from Lake Powell in WY 2015
- Most Probable - Most probable 9.0 maf release from Lake Powell in WY 2015
- - - Probable Min - Probable Min with 7.48 maf release from Lake Powell in WY 2015



# Drought and Precipitation



# U.S. Drought Monitor






## West

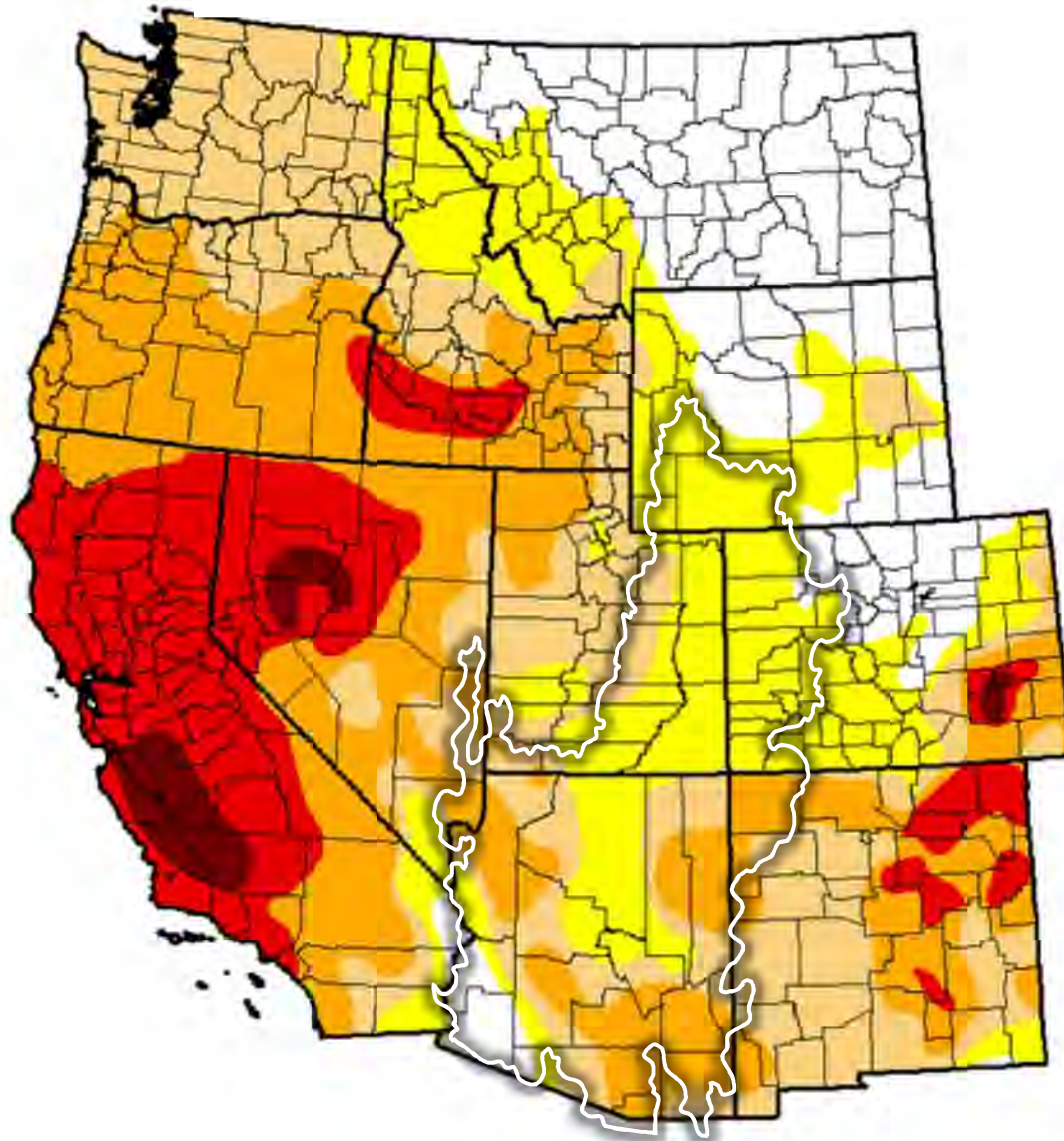
February 4, 2014

(Released Thursday February 6, 2014)

Valid 7 a.m. Eastern

### Intensity:

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



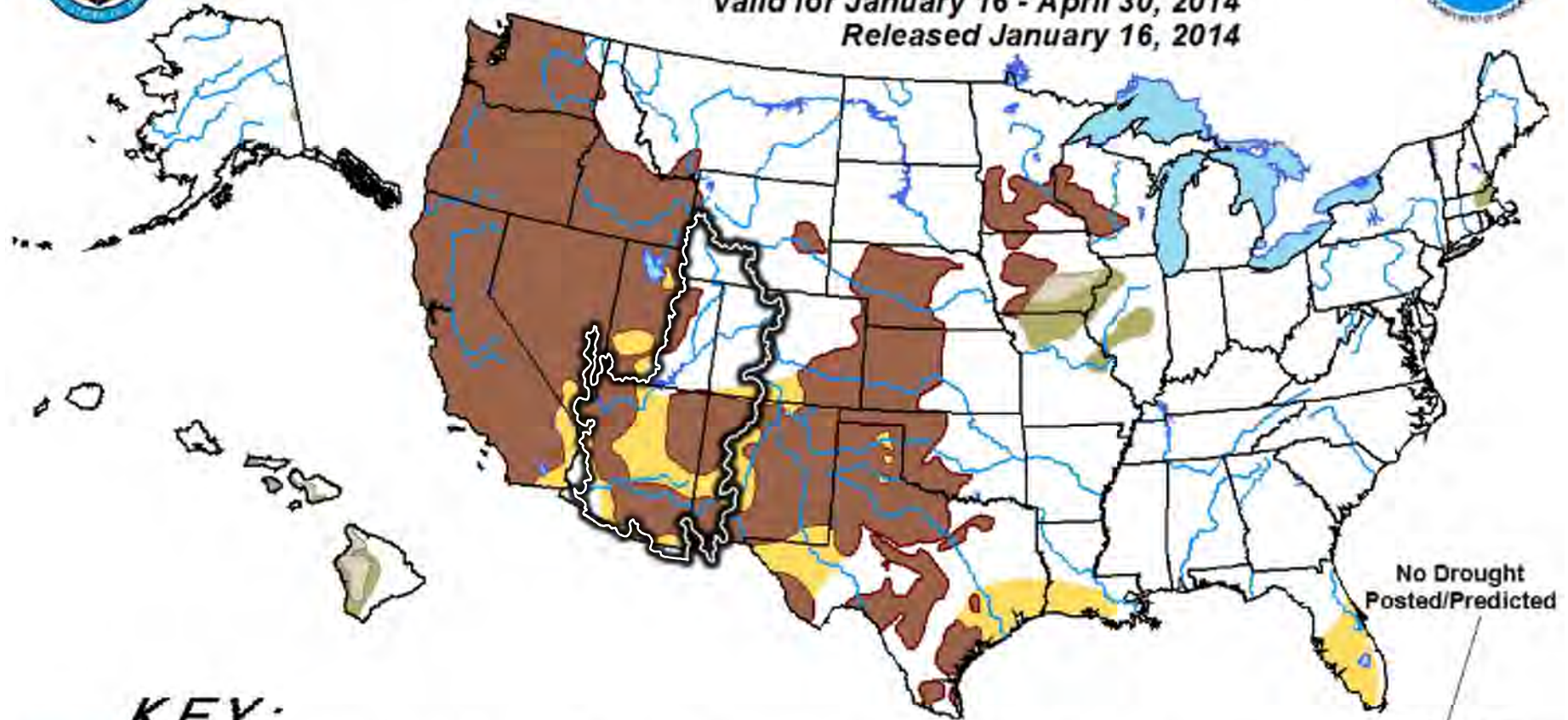


# U.S. Seasonal Drought Outlook





## Drought Tendency During the Valid Period

Valid for January 16 - April 30, 2014

Released January 16, 2014



### KEY:

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

**Author: Brad Pugh, Climate Prediction Center, NOAA**

[http://www.cpc.ncep.noaa.gov/products/expert\\_assessment/season\\_drought.html](http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.html)

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.

NOTE: The tan area 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)

# Precipitation – Colorado River Basin

As of February 10, 2014

## Upper Colorado Basin

WY Precip to Date

102% (12.7")

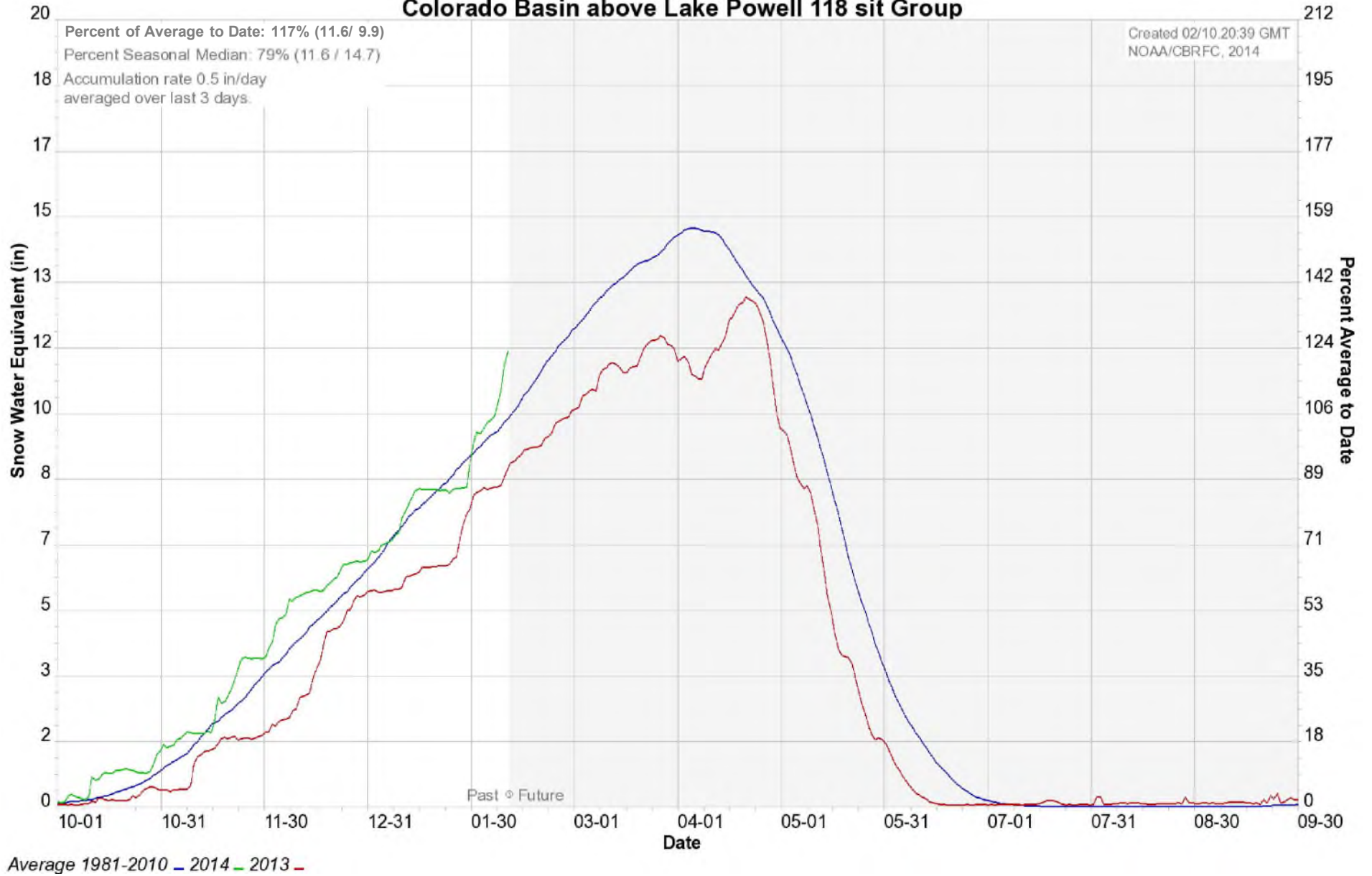
Current Basin Snowpack

112% (11.8")

(Avg 1981-2010)



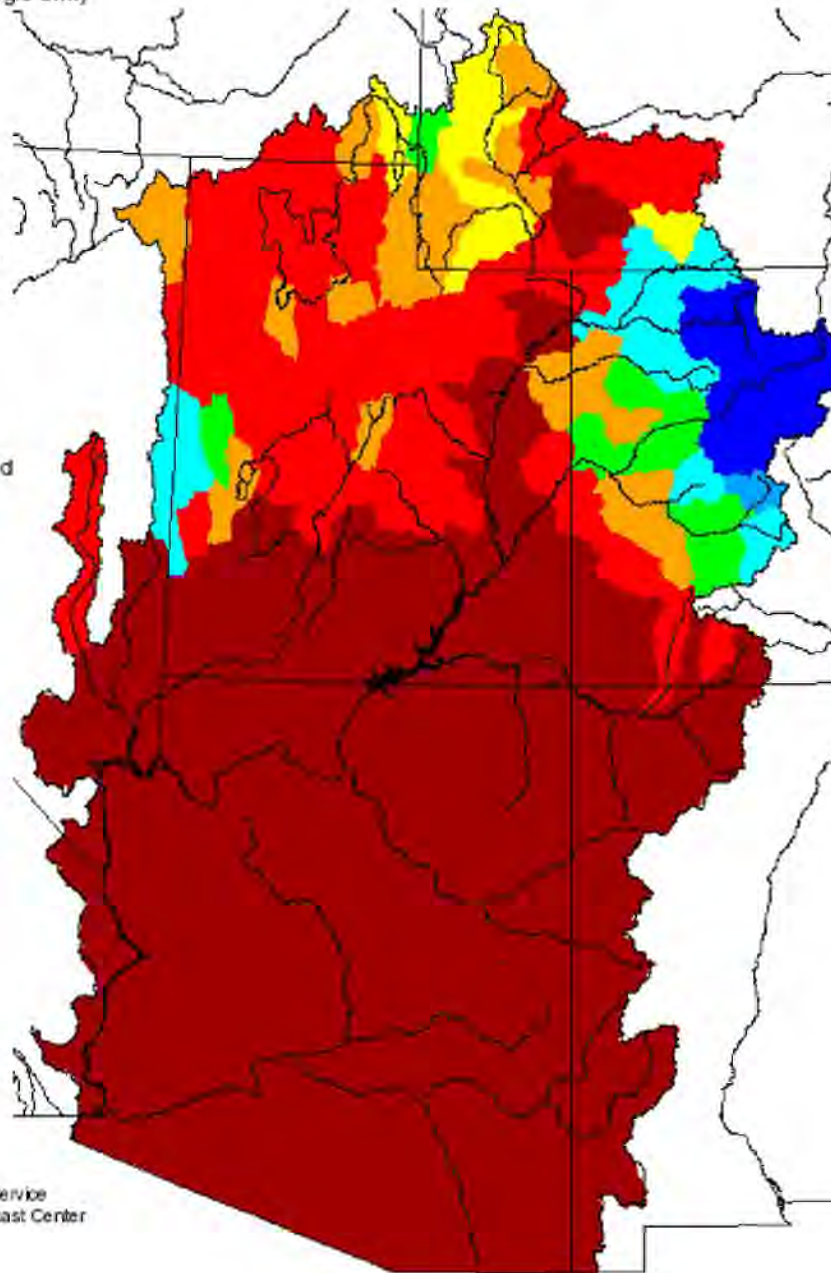
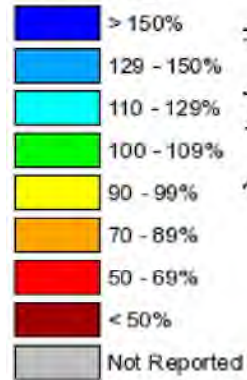
# Colorado Basin River Forecast Center Colorado Basin above Lake Powell 118 sit Group



# Monthly Precipitation for January 2014

(Averaged by Hydrologic Unit)

## % Average

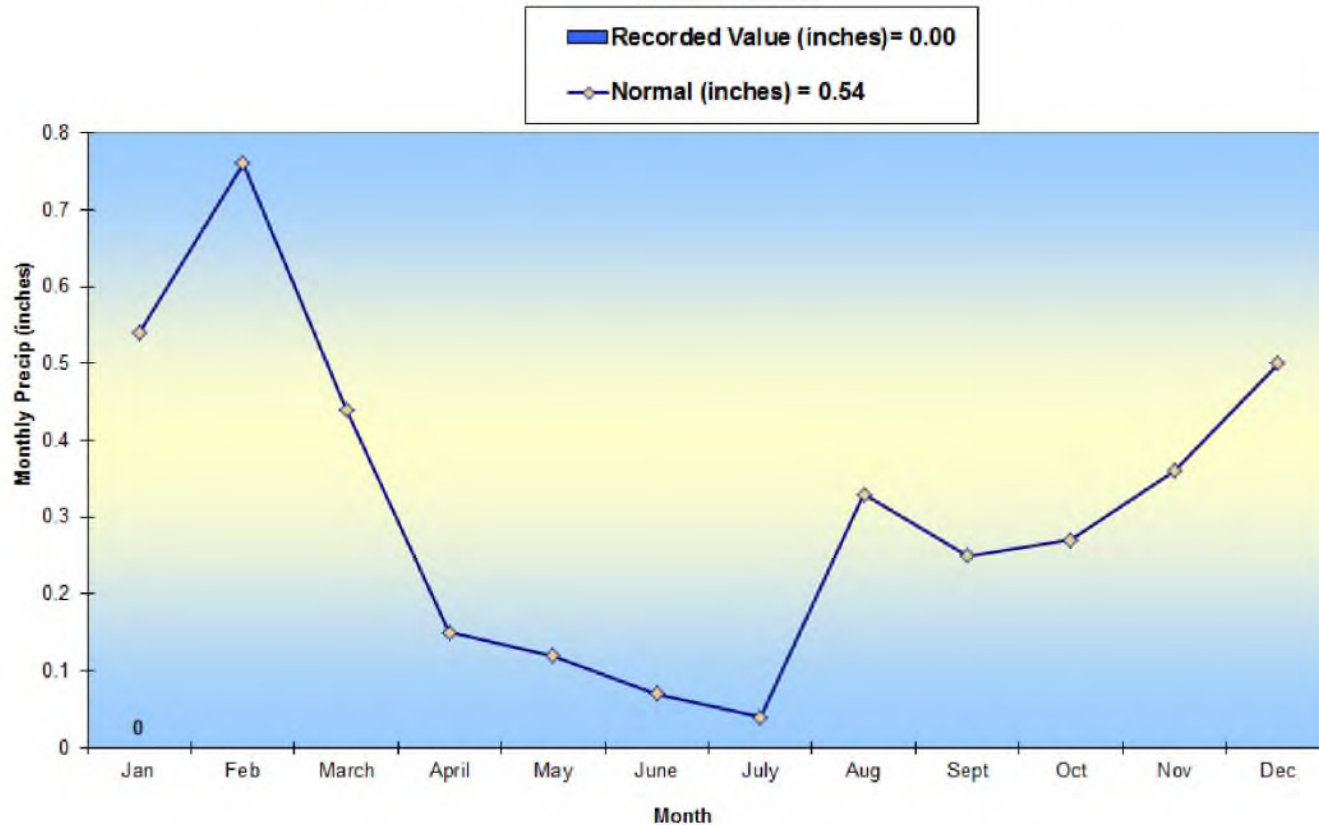


Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

# Record of Precipitation, Las Vegas, NV

As of January 31, 2014

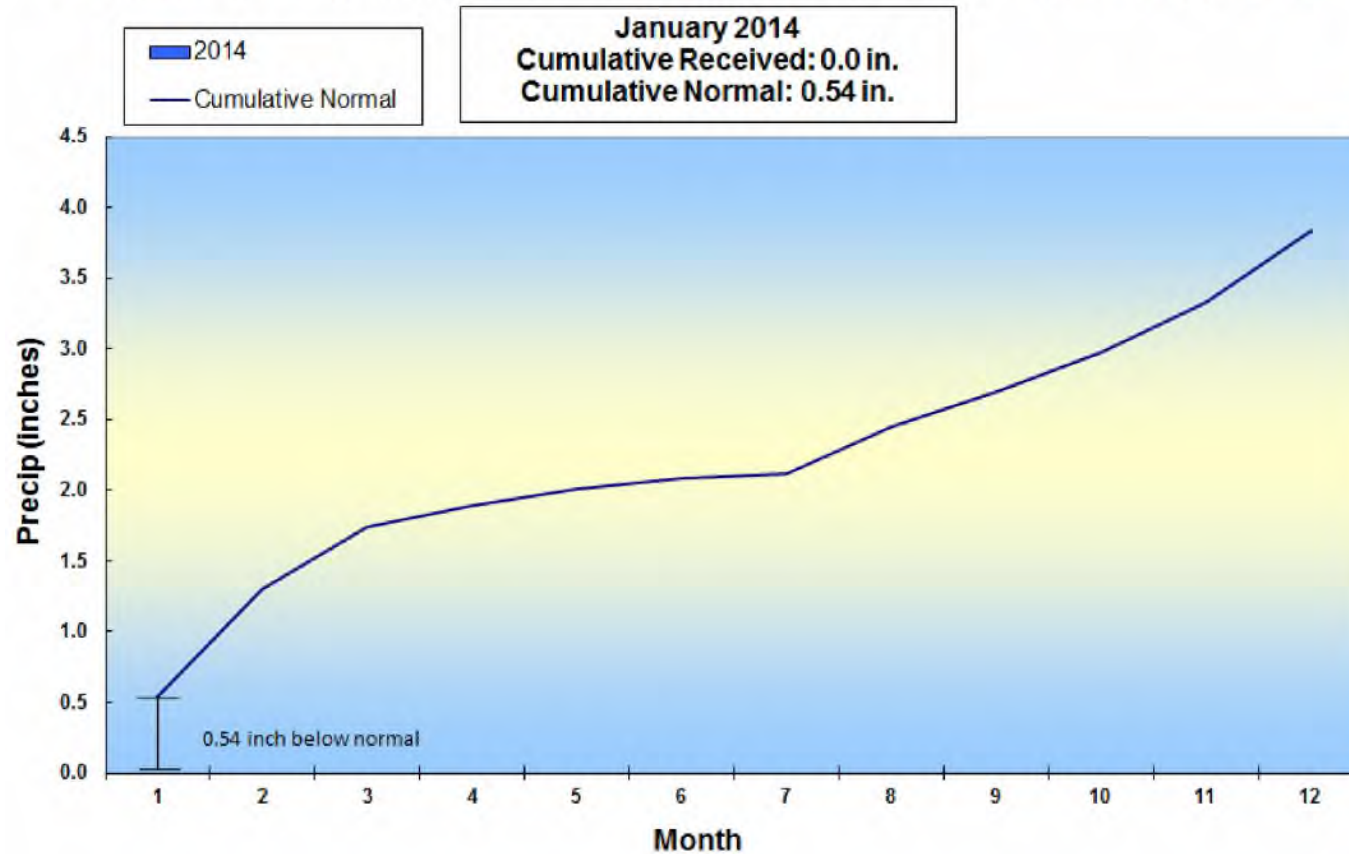
Record of Precipitation at McCarran International Airport, Las Vegas, NV  
January 2014



# Record of Precipitation, Las Vegas, NV

As of January 31, 2014

Record of Precipitation at McCarran International Airport, Las Vegas, NV







# Water Use in Southern Nevada



# Water Use in Southern Nevada

## January - December

2013*:	Consumptive Use =	223,457
	<u>CR Water Banked =</u>	<u>0</u>
		223,457
2012:	Consumptive Use =	237,167
	<u>CR Water Banked =</u>	<u>0</u>
		237,167

**Difference = - 13,710 af**

\*Subject to final accounting.



# Water Use Comparison

January - December

<b>Water Use</b>	<b>2012</b> Acre Feet	<b>2013</b> Acre Feet	<b>Difference</b>	<b>% Change</b>
Las Vegas Wash Gauged Flow	212,478	215,007	2,529	1.2%
Diversions	439,352	433,383	-5,969	-1.4%
Return Flow Credit	202,185	209,926	7,741	3.8%
Consumptive Use	237,167	223,457	-13,710	-5.8%



# Intentionally Created Surplus (ICS)

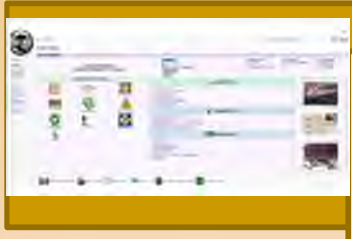
Storage in Lake Mead as of December 31, 2012

State	Storage (AF)	Feet*
Nevada	512,804	5.7
California	579,786	6.4
Arizona	103,050	1.1
Total	1,195,640	13.3

\*90,000 acre feet storage per 1 foot of storage at elevation 1,100



# GCDAMP-DASHBOARD



Navigation

[Main page](#)

[Recent changes](#)

[Random page](#)

[Question Poll](#)

[Dashboard](#)

## **DASHBOARD:** Can Address the Following Questions:

- Q: How many power units are online? maintenance season?
- Q: What are the snow pack conditions? Percentages?
- Q: What are the lake levels for Powell /Mead? (Compare 3 or 5 years?)
- Q: What are the latest news articles (specifically associated) with this program?
- Q: What science trips are going on right now? Last month? Next month?
- Q: What is the drought outlook right now? Seasonal outlook for the basin?
- Q: How much water is coming out of the dam right now? CFS?
- Q: What is the water temperature? How is it trending?
- Q: Recreation: Are there motorized boats on the river right now?
- Q: What does the hydrograph look like? Next few months? Year?
- Q: What do the upper basin lake levels look like? Navajo? Fontenelle?
- Q: What does the precipitation look like in the Basin?
- Q: What year are we in with the HFE protocol? Other guiding documents?
- Q: Fishery: What are the fishing conditions at Lees Ferry?
- Q: What are the sediment conditions? HFE?

[www.GCDAMP.com](http://www.GCDAMP.com)



Page Discussion

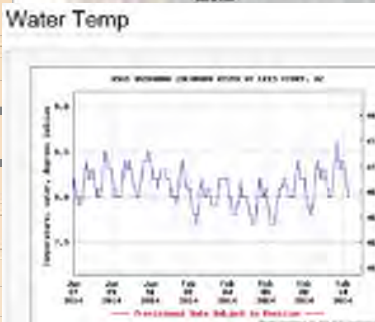
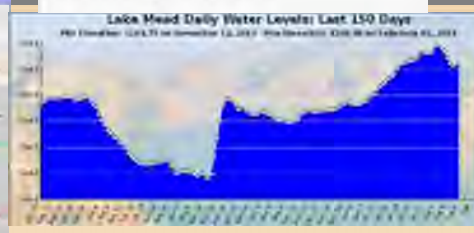
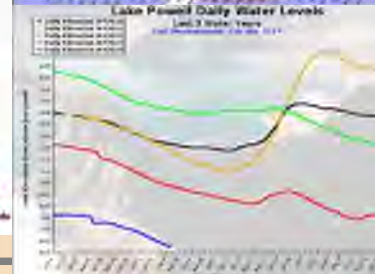
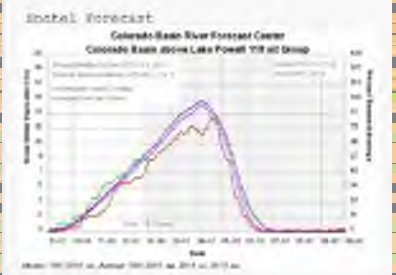
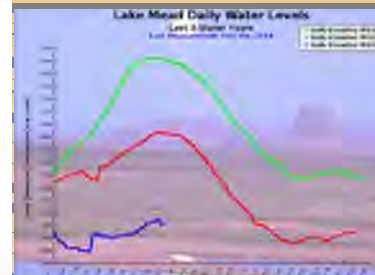
# Dashboard

## Science Trips

- Dec 10: Lake Powell Forebay/Tailwater Monitoring
- Jan 9: Natal Fish Origins
- Feb 13: Sediment Monitoring
- Mar 18: Monitoring LF rainbow trout population

## News Articles

- FAA to Allow More Air Tours at Grand Canyon**  
ABC News (17 Feb 14)  
<http://abcnews.go.com/Travel/story?id=23394664>
- Grand Canyon Lottery for 2015 Reauthorized**  
Permits Open February 1st  
KCSG.COM (21 Jan 14)  
[http://www.kcs.com/news\\_story2443069article-Grand-Canyon-Lottery-Apr-2015-4-14-reauthorized.html](http://www.kcs.com/news_story2443069article-Grand-Canyon-Lottery-Apr-2015-4-14-reauthorized.html)
- USGS and Tribes Work Together to Gain Water Knowledge**  
USGS - Science Features (23 Jan 14)  
[http://www.usgs.gov/blogs/features/gscf\\_blog\\_story/2014-01-23-usgs-and-tribes-work-together-to-gain-water-knowledge](http://www.usgs.gov/blogs/features/gscf_blog_story/2014-01-23-usgs-and-tribes-work-together-to-gain-water-knowledge)
- California governor declares drought emergency**  
USA TODAY (21 Jan 14)  
<http://www.usatoday.com/story/news/nation/2014/01/21/california-drought-emergency/4501701/>
- Colorado River Drought Forces a Painful Reckoning for States**  
New York Times (26 Jan 14)



Unit	Outage Start	Outage End
1	1/15/14	1/25/14
2	1/15/14	1/25/14
3	1/15/14	1/25/14
4	1/15/14	1/25/14
5	1/15/14	1/25/14
6	1/15/14	1/25/14
7	1/15/14	1/25/14
8	1/15/14	1/25/14
9	1/15/14	1/25/14
10	1/15/14	1/25/14
11	1/15/14	1/25/14
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47	1/15/14	1/25/14
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49	1/15/14	1/25/14
50	1/15/14	1/25/14

- WATER: 2014 (USGS) expected from Jan 15
- Targeted 2014 April-July Unimpaired inflow at LIP MAP = 30% of average
- Unimpaired inflow into Lake Powell
  - Jan 2014 (AF) = 78% of avg inflow
  - Feb 2014 (AF) = 81% of avg inflow
  - Mar 2014 (AF) = 92% of avg inflow
  - Unimpaired inflow is currently about 80% of unimpaired inflow (USGS, 1-9-2014)
- Aug 2014 Inflow = 100% of avg inflow
- Sep 2014 Inflow = 100% of avg inflow
- Oct 2014 Inflow = 100% of avg inflow
- Nov 2014 Inflow = 100% of avg inflow
- Dec 2014 Inflow = 100% of avg inflow
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## RECREATION

- Boat Search: Motorized boats currently NOT allowed on river

## FISH

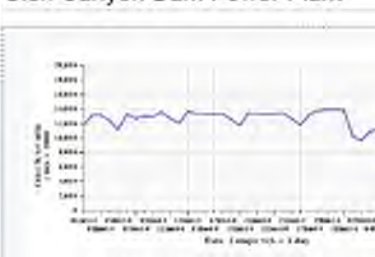
- Recent Fish Napping: November 11, 2013
  - Upriver: 3.0 to 6
  - Walk-in: 3.0 to 6
  - Spin-Fishing: 5 to 7.5
- Key: 1 = Go fish somewhere else 10 = Rent a helicopter and get here now!

## GUIDING DOCUMENTS

- 2014 is year 2 of 10 for HFE protocol EA (2020)
- 2014 is year 2 of 10 for NV Fish Control EA (2020)
- 2014 is year 1 of 5 for Mexico to store water in U.S. reservoirs - Minute 319



## Glen Canyon Dam Power Plant



## Basin Info



# GCDAMP-DASHBOARD

www.GCDAMP.com

# Colorado River Commission of Nevada

## Natural Resources Group Hydrologic Update February 11, 2014

