# Colorado River Commission of Nevada

## Natural Resources Group Hydrologic Update October 8, 2013





# Hydrologic Conditions



## Unregulated Inflow Into Lake Powell

As of September 17, 2013

	MAF*	% Avg**
• WY 2013 (projected):	5.00	46%
April-July 2013 (observed):	2.56	36%
• Aug 2013 (observed):	0.27	55%
<ul> <li>Sept 2013 (projected):</li> </ul>	0.74	181%

#### \*MAF=Million Acre-Feet

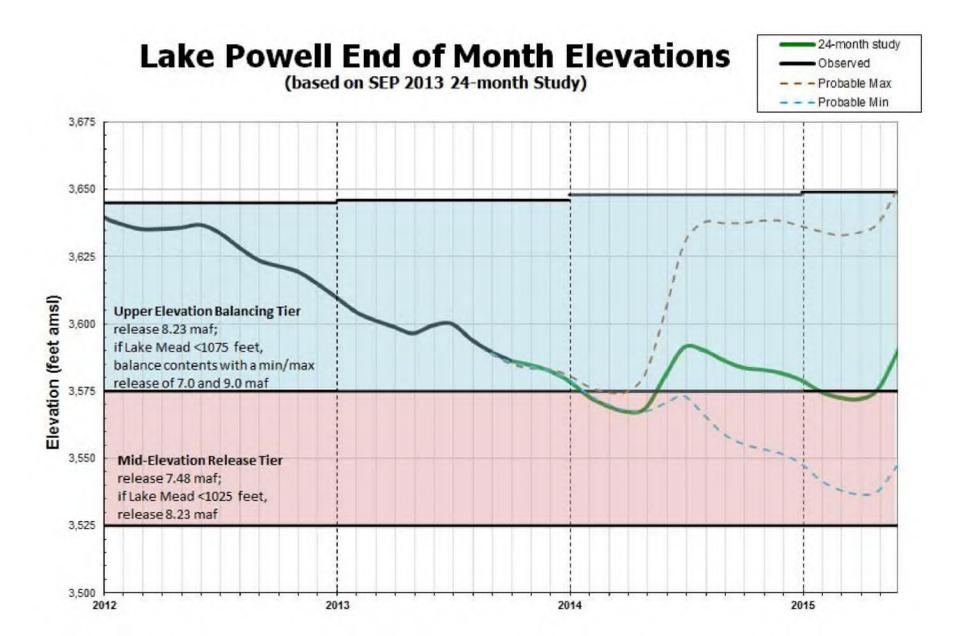
**\*\*30-year average, from 1981-2010 (current normal)** 



# Storage Conditions As of September 30, 2013

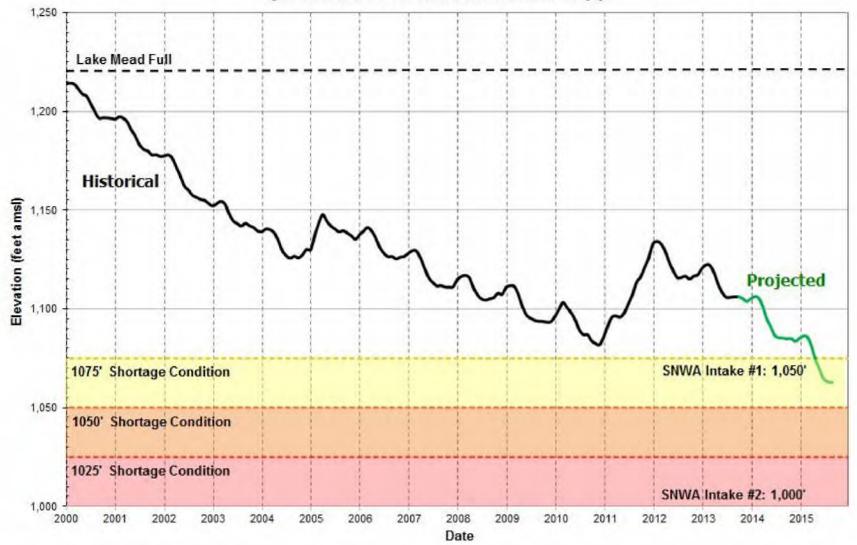
		Percent of <u>Capacity</u>	<u>Δ from last year</u>
Lake Mead elev.	1,106.95 ft	47%	<b>8.21 ft</b>
Lake Powell elev.	3,591.32 ft	45%	<b>32.03 ft</b>
Total System Storage (9/2013)	29.95 maf	50%	<b>4.</b> 09 maf
Total System Storage (9/2012)	34.04 maf	57%	





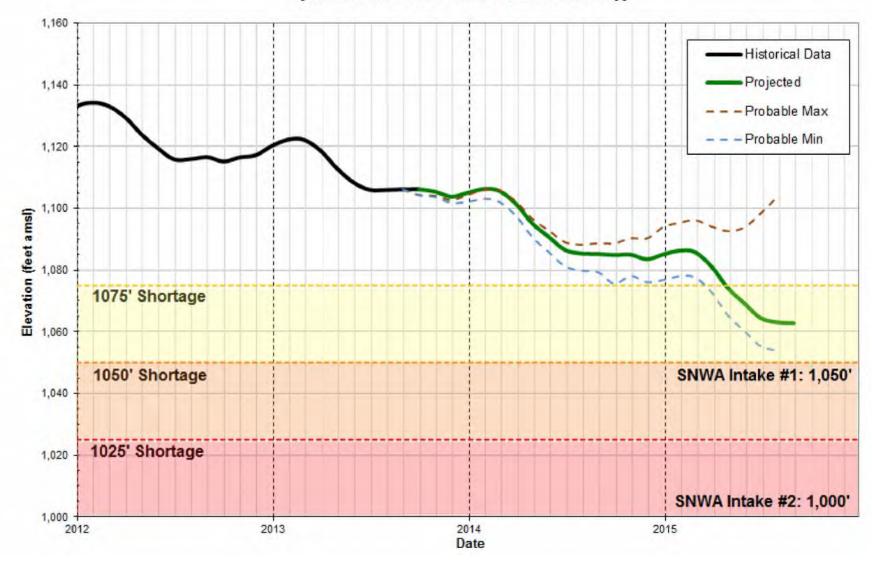
#### Lake Mead End of Month Elevation Projections

(based on the SEP 2013 24-month study )



#### Lake Mead End of Month Elevation Projections

(based on the SEP 2013 24-month study)



### Precipitation - Colorado River Basin

As of September 30, 2013

<u>Upper Colorado</u> <u>Basin</u> 91% (28.8")

WY Precip to Date

#### Current Basin Snowpack

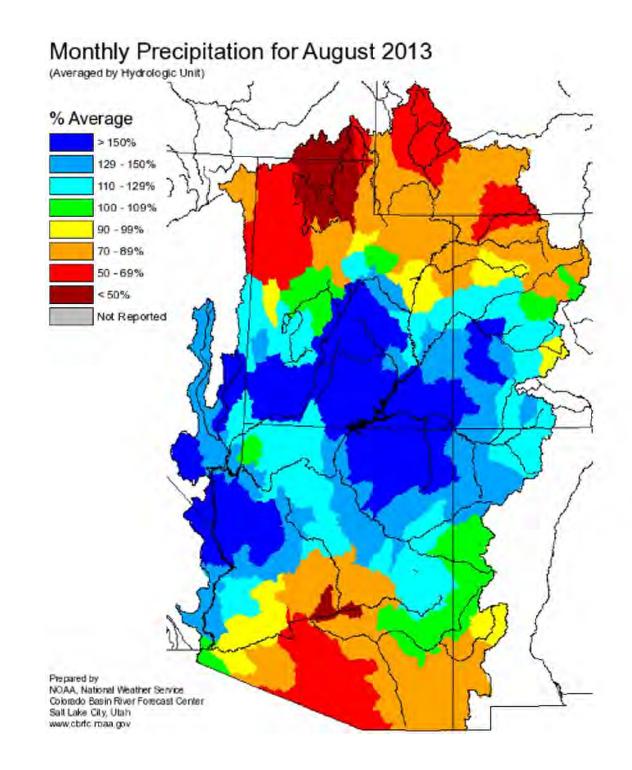
NA% (NA)

(Avg 1981-2010)



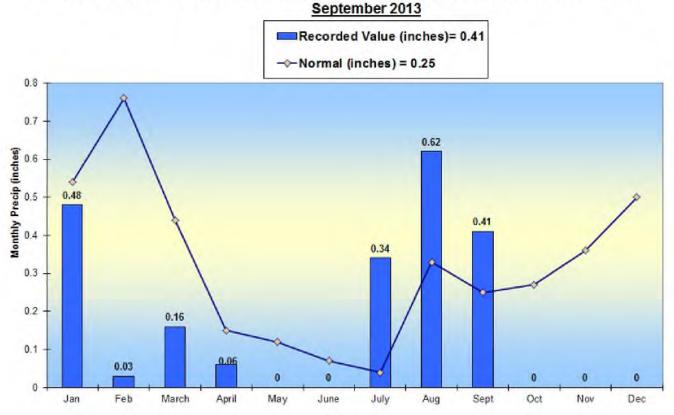
## **Drought and Precipitation**





#### Record of Precipitation, Las Vegas, NV As of September 30, 2013

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

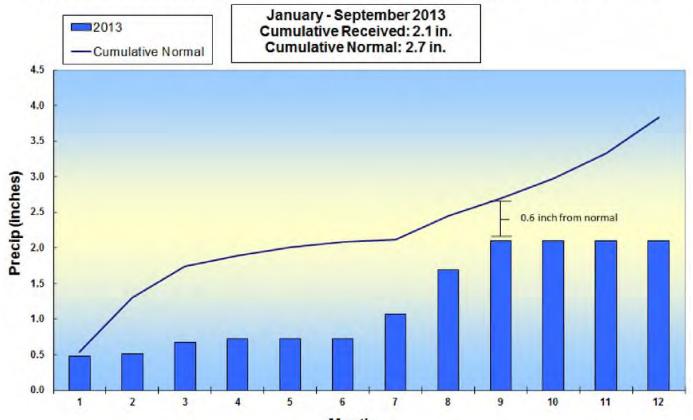


Month



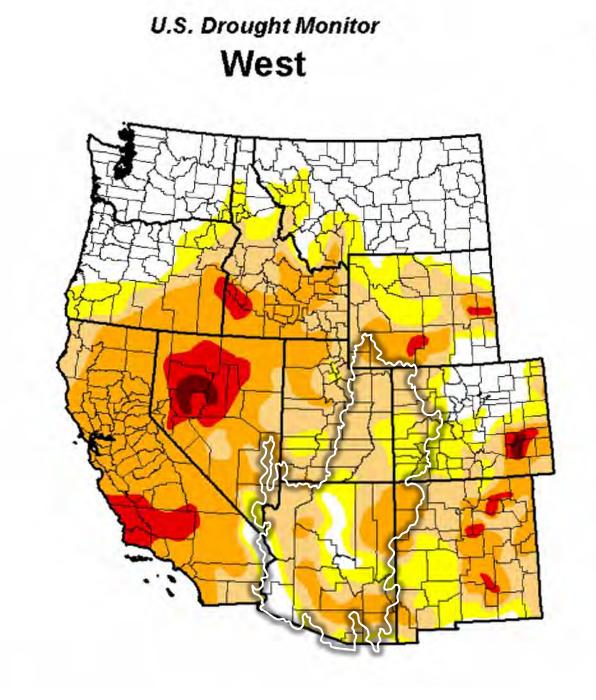
#### Record of Precipitation, Las Vegas, NV As of September 30, 2013

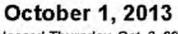
Record of Precipitation at McCarran International Airport, Las Vegas, NV











(Released Thursday, Oct. 3, 2013) Valid 7 a.m. EDT

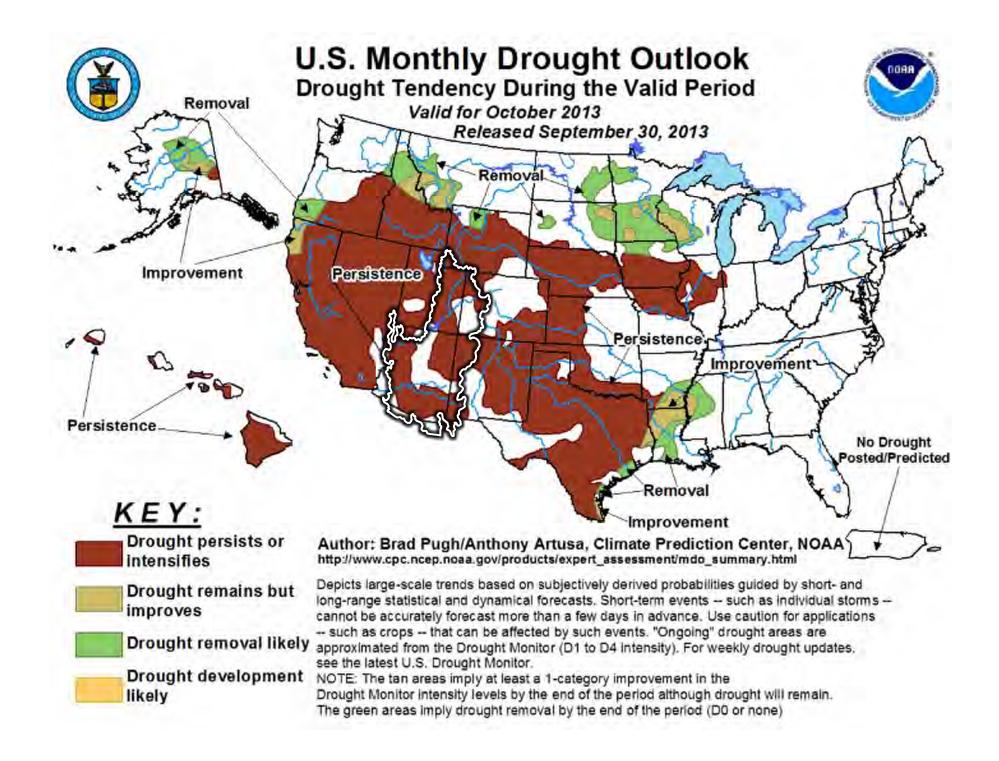


The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author: David Miskus NOAA/NWS/NCEPICPC



http://droughtmonitor.unl.edu/



## Water Use in Southern Nevada



## Water Use in Southern Nevada January - August

2013\*: Consumptive Use = 166,703<u>CR Water Banked = 0</u> 166,703 2012: Consumptive Use = 170,602<u>CR Water Banked = 0</u> 170,602

Difference = - 3,899 af



## Water Use Comparison

Water Use	2012	2013	Difference	% Change
Las Vegas Wash Gauged Flow	135,263	140,904	5,641	4.2%
Diversions	304,764	305,729	965	0.3%
Return Flow Credit	134,162	139,025	4,863	3.6%
Consumptive Use	170,602	166,703	-3,899	-2.3%



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