## 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%
<ul><li>April-July 2013 (observed):</li></ul>	2.56	36%
• Aug 2013 (observed):	0.27	55%
Sept 2013 (projected):	0.74	181%

\*MAF=Million Acre-Feet

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



# Storage Conditions As of September 30, 2013

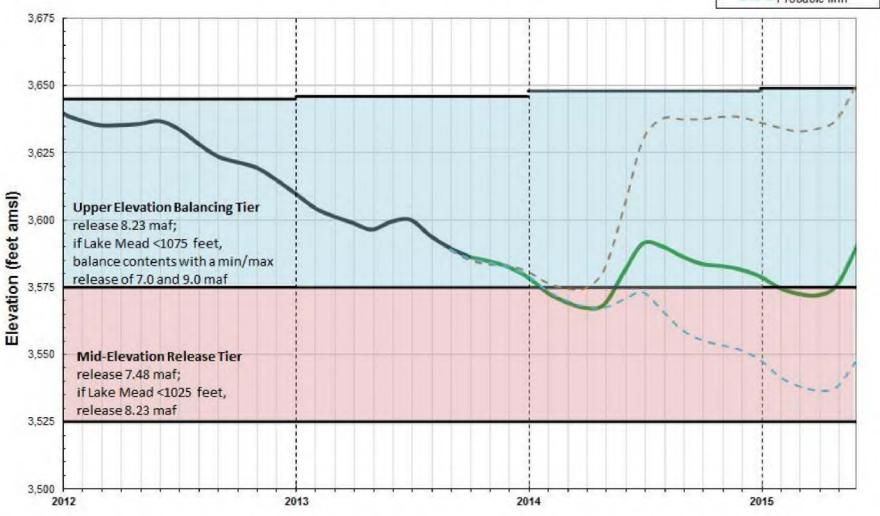
		Percent of <u>Capacity</u>	<u>Δ from last year</u>
Lake Mead elev.	1,106.95 ft	47%	<b>↓</b> 8.21 ft
Lake Powell elev.	3,591.32 ft	45%	32.03 ft
Total System Storage (9/2013)	29.95 maf	50%	4.09 maf
Total System Storage (9/2012)	34.04 maf	57%	



#### **Lake Powell End of Month Elevations**

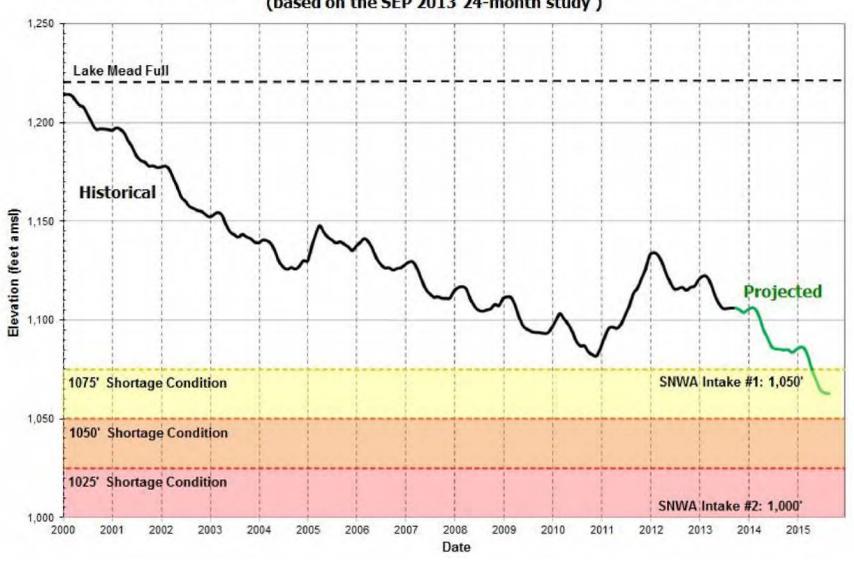
(based on SEP 2013 24-month Study)





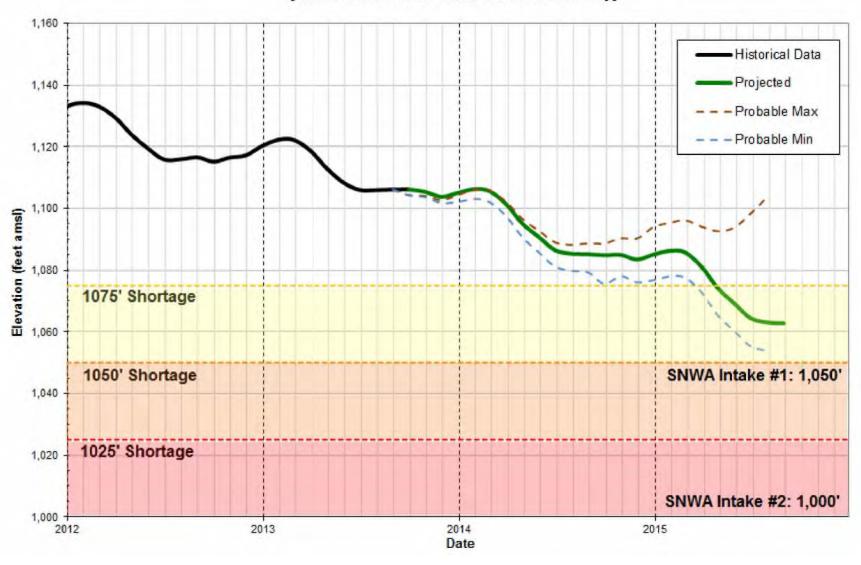
#### **Lake Mead End of Month Elevation Projections**

(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

Upper Colorado

Racin

<u>Basin</u>

WY Precip to Date

91% (28.8")

**Current Basin Snowpack** 

NA% (NA)

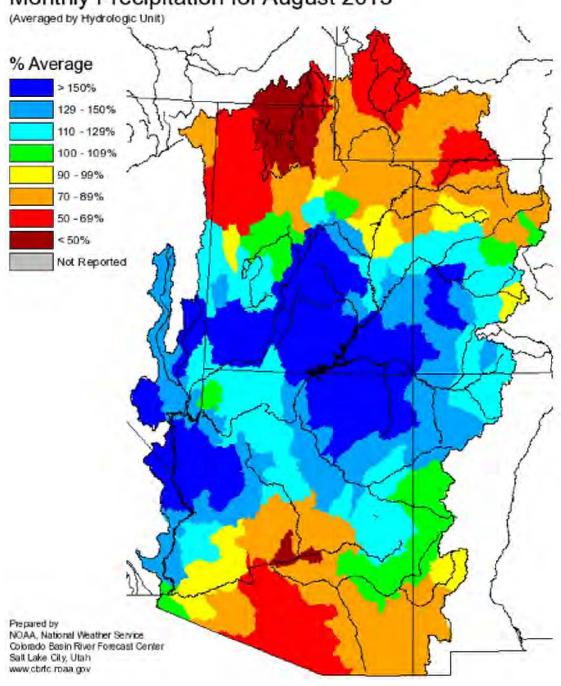
(Avg 1981-2010)



## **Drought and Precipitation**



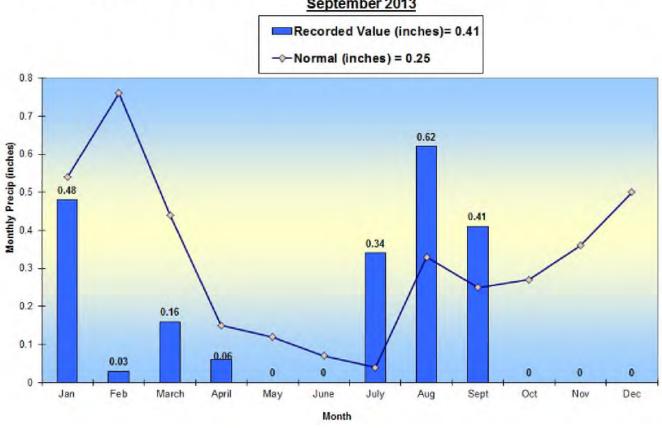
#### Monthly Precipitation for August 2013



#### Record of Precipitation, Las Vegas, NV

As of September 30, 2013

#### Record of Precipitation at McCarran International Airport, Las Vegas, NV September 2013

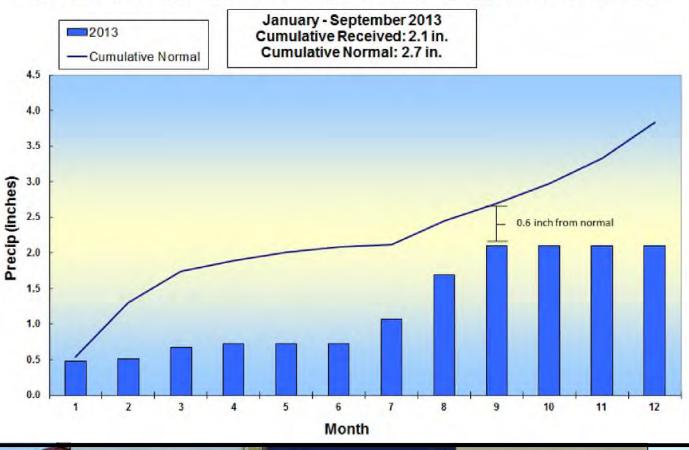




#### Record of Precipitation, Las Vegas, NV

As of September 30, 2013

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

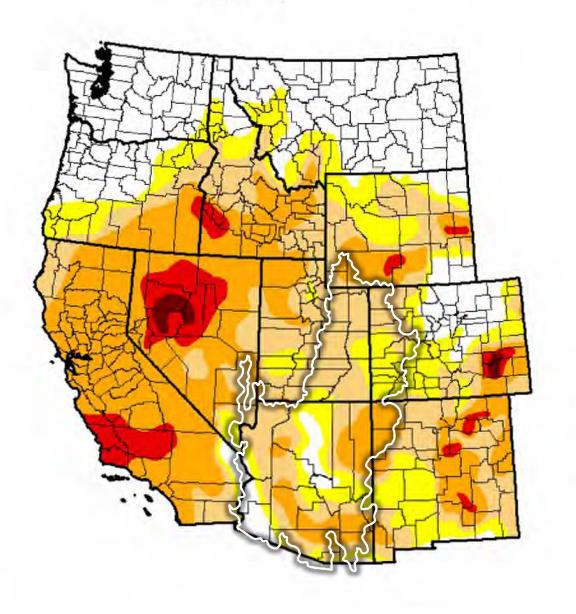




# U.S. Drought Monitor West

#### October 1, 2013

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



#### Intensity.

DO Abnom ally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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

#### Author:

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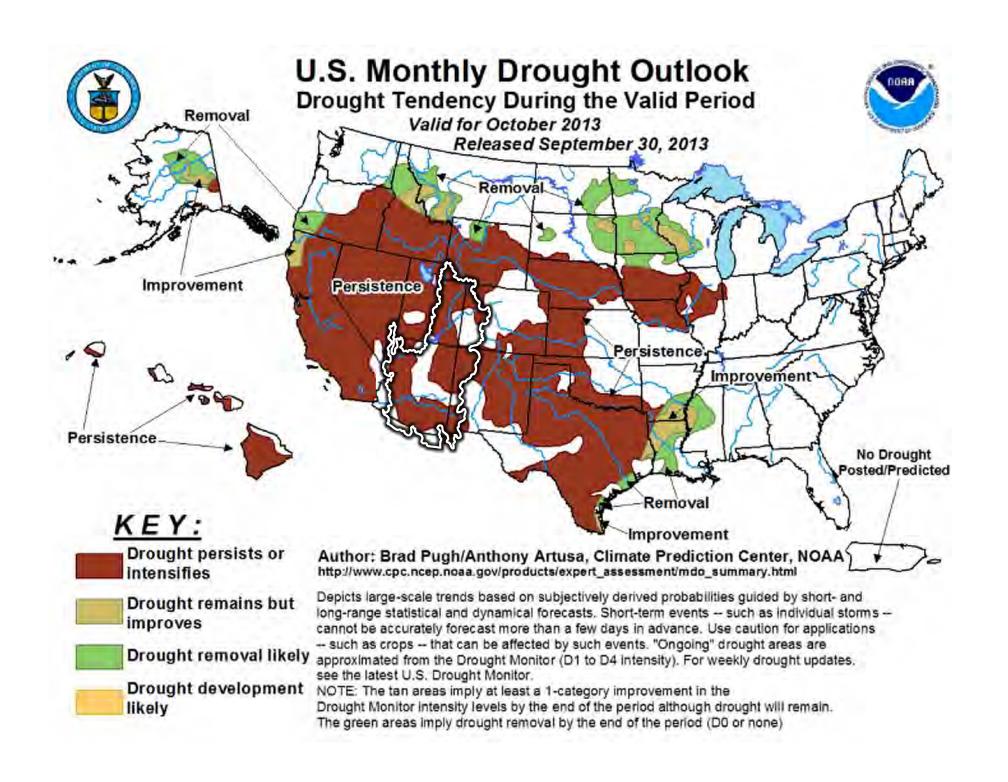








http://droughtmonitor.unl.edu/



### Water Use in Southern Nevada



## Water Use in Southern Nevada January - August

2013\*: Consumptive Use = 166,703

CR Water Banked = 0

166,703

2012: Consumptive Use = 170,602

CR Water Banked = 0

170,602

Difference = -3,899 af

\*Subject to final accounting.



## 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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