## Colorado River Commission of Nevada

# Natural Resources Group Hydrologic Update December 10, 2013





# Unregulated Inflow



# Unregulated Inflow Into Lake Powell

As of December 2, 2013

	MAF*	% Avg**
• WY 2013 (observed):	5.12	47%
April-July 2013 (observed):	2.56	36%
Nov (observed):	0.38	79%
Dec (projected):	0.30	83%

\*MAF=Million Acre-Feet

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



# Storage Conditions

As of December 2, 2013

Percent of	
<u>Capacity</u>	

<u>Δ from last year</u>

Lake Mead elev.

1,106.40 ft

47%

11.02 ft

Lake Powell elev.

3,587.81 ft

44%

**1** 26.93 ft

Total System

Storage (12/2013)

29.56 maf

50%

**1** 3.76 maf

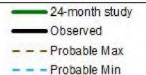
Total System Storage (12/2012) 33.32 maf

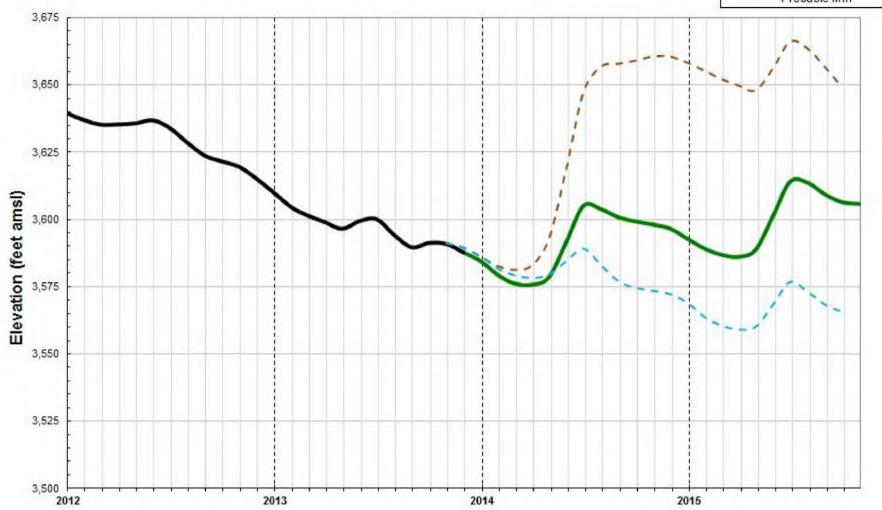
56%



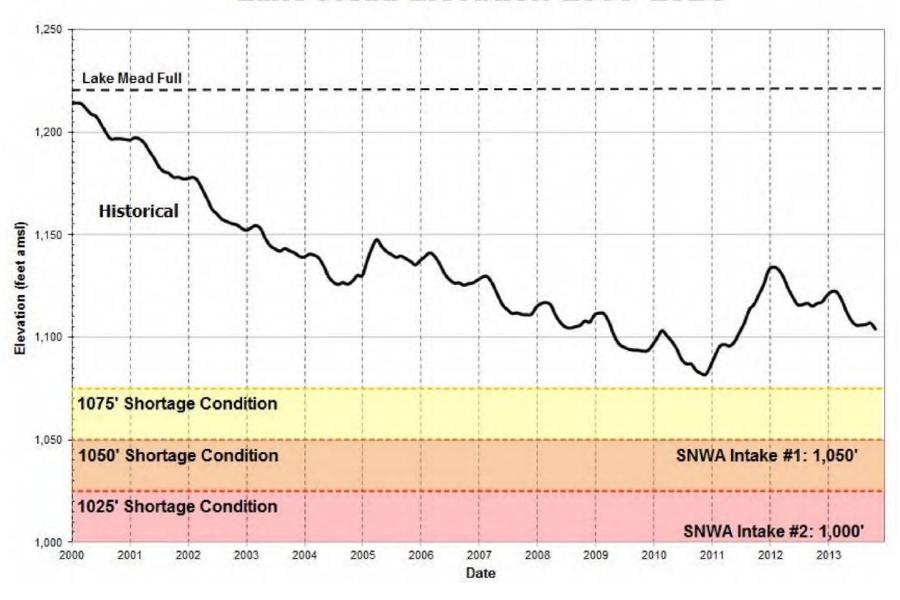
#### **Lake Powell End of Month Elevations**

(based on NOV 2013 24-month Study)



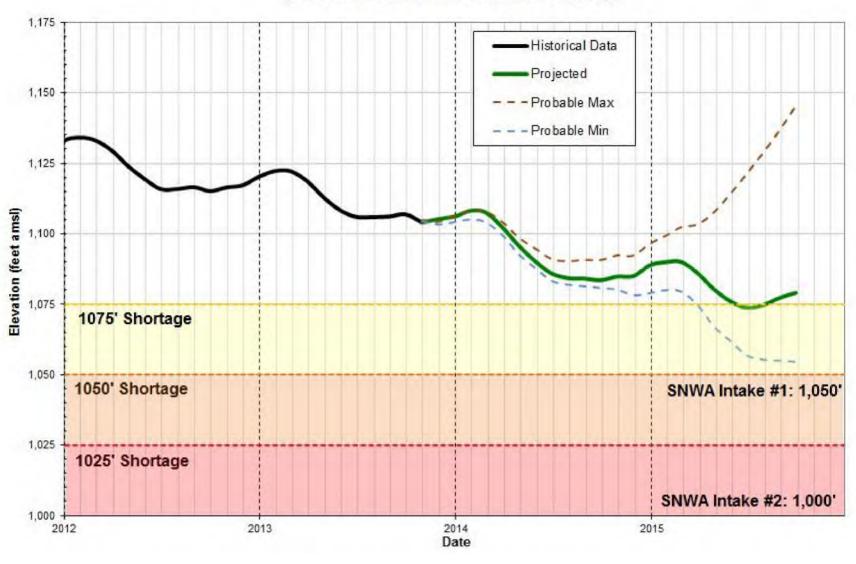


#### Lake Mead Elevation 2000-2014



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

(based on the NOV 2013 24-month study)



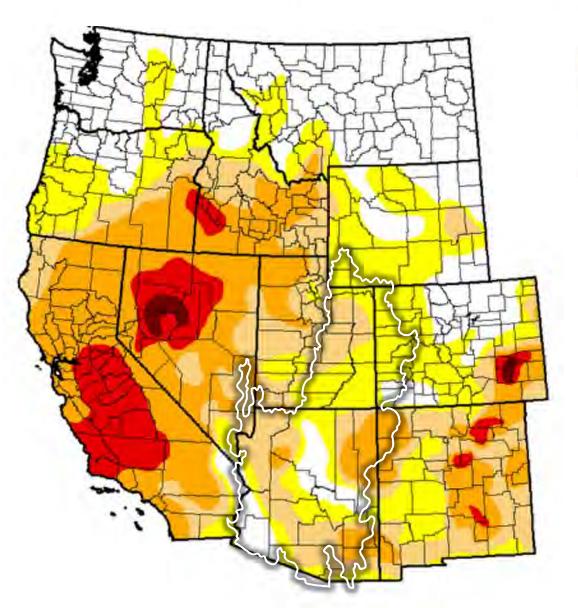
## **Drought and Precipitation**



# U.S. Drought Monitor West

#### December 3, 2013

(Released Thursday December 5, 2013) Valid 7 a.m. Eastern



#### Intensity:

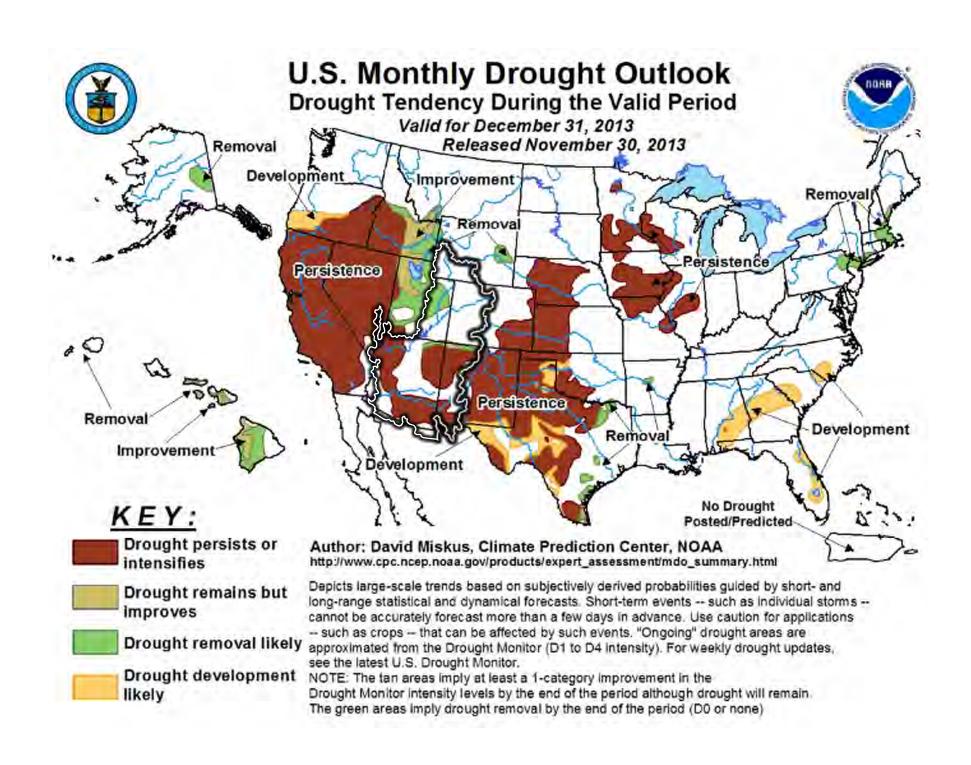
D0 - Abnormally Dry

D1 - Moderate Drought

D2 - Severe Drought

D3 - Extreme Drought

D4 - Exceptional Drought



## Precipitation – Colorado River Basin

As of December 2, 2013

<u>Upper Colorado</u>

**Basin** 

WY Precip to Date

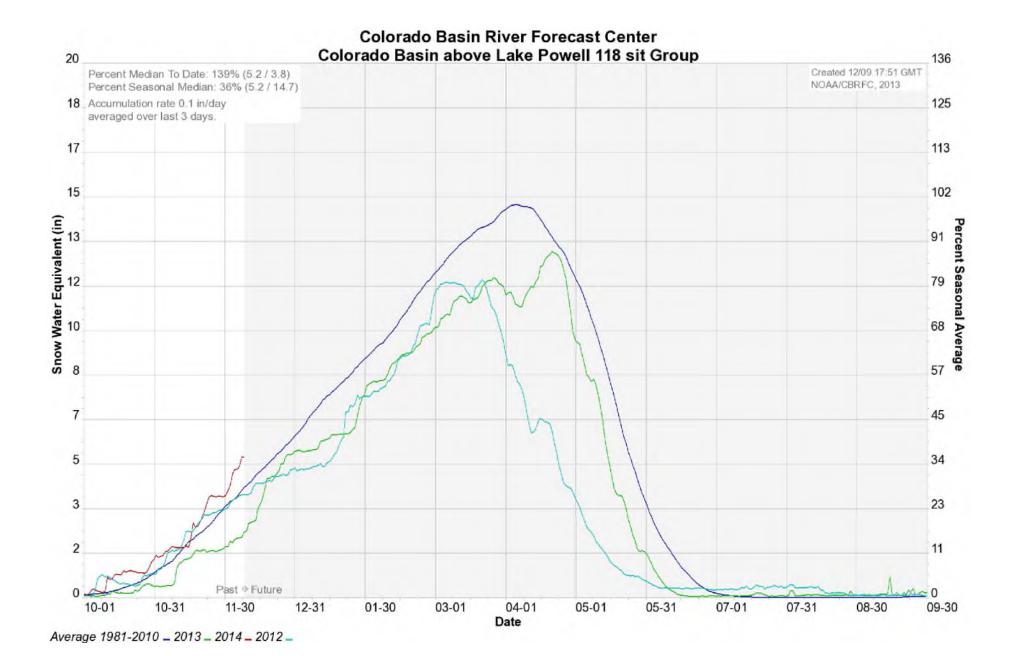
101% (5.7")

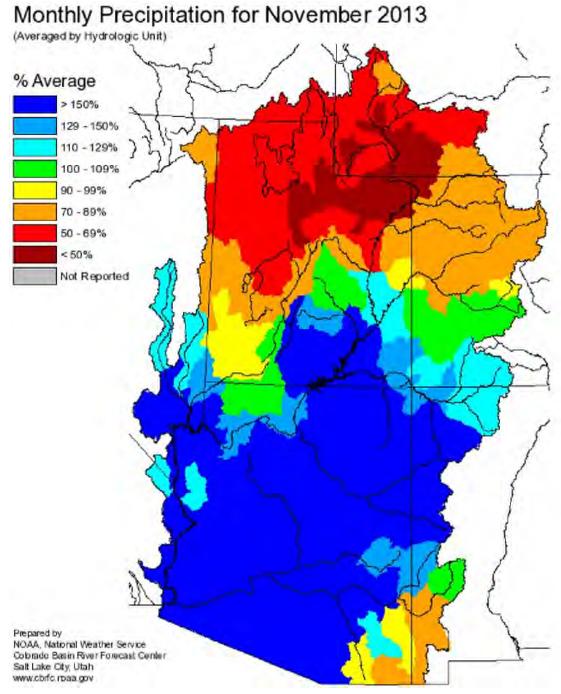
**Current Basin Snowpack** 

115% (3.9")

(Avg 1981-2010)



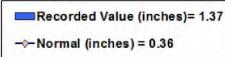


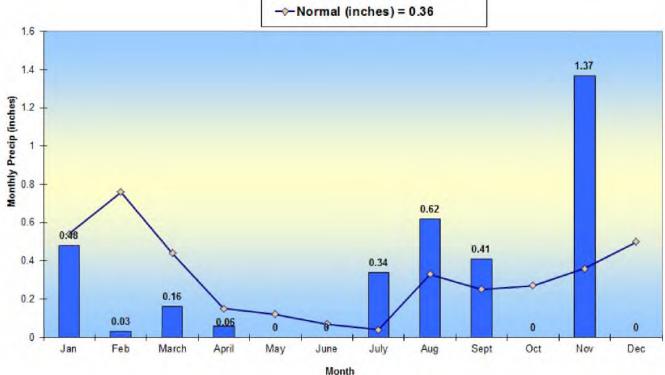


## Record of Precipitation, Las Vegas, NV

As of November 30, 2013

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



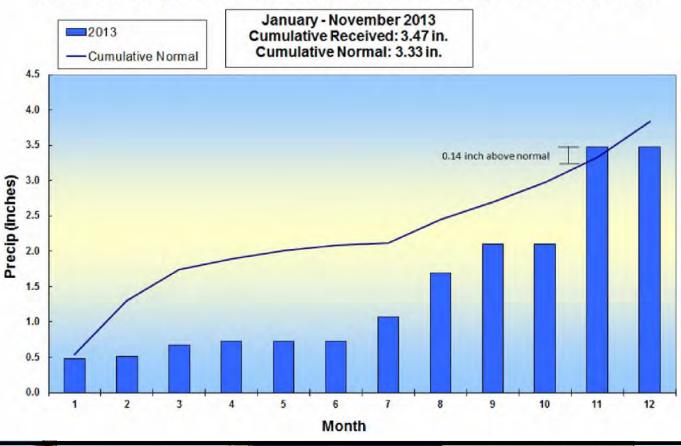




## Record of Precipitation, Las Vegas, NV

As of November 30, 2013

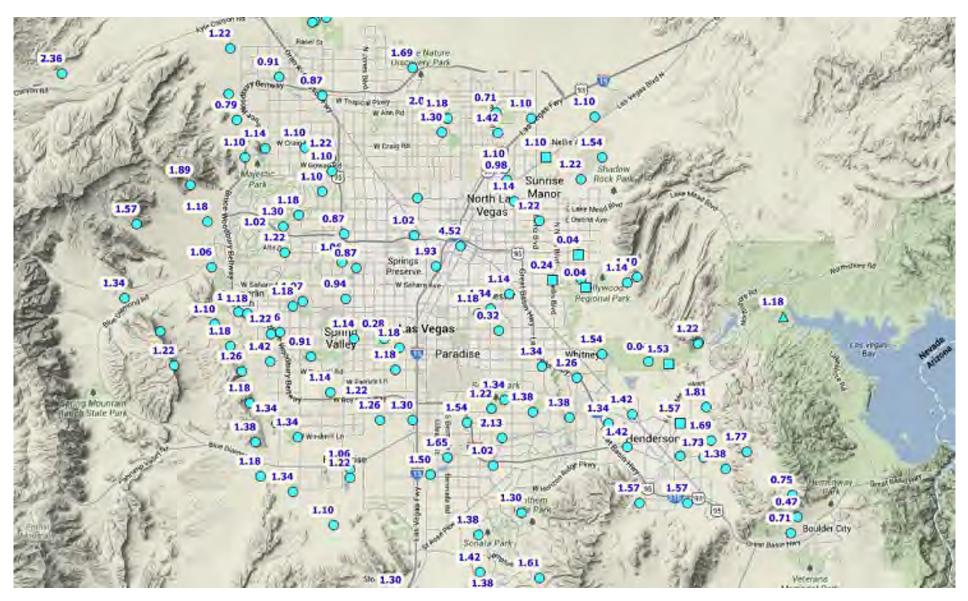
#### Record of Precipitation at McCarran International Airport, Las Vegas, NV





#### **Clark County Regional Flood Control District Rain Gages**

**November Totals** 



## Water Use in Southern Nevada



## Water Use in Southern Nevada January - October

2013\*: Consumptive Use = 203,024

CR Water Banked = 0

203,024

2012: Consumptive Use = 210,523

CR Water Banked = 0

210,523

Difference = -7,499 af

\*Subject to final accounting



# Water Use Comparison

January - October

Water Use	<b>2012</b> Acre Feet	2013 Acre Feet	Difference	% Change
Las Vegas Wash Gauged Flow	179,560	177,920	-1,640	-0.9%
Diversions	379,456	378,503	-953	-0.3%
Return Flow Credit	168,933	175,479	6,546	3.9%
Consumptive Use	210,523	203,024	-7,499	-3.6%



#### **Nellis History**

- The 1st Las Vegas airport was Anderson Field (1920), on SE corner of what is now Sahara & Paradise. It was renamed Rockwell Field in 1928 (close to current Nellis location).
- A new airfield opened in 1929, initially called Las Vegas Nevada Airport.
- It was purchased by Western Air Express in 1932. It was the primary
  passenger/mail stop on the LA Salt Lake City route and helped grow the tourist
  industry.



Western Air Express Mail Plane



Western Field Nov 1940

- The City of Las Vegas purchased the field on Jan 2, 1941 for \$10.00 and the US Army leased the field on Jan 5,1941. It was dual use the civilian side was McCarran Airport. Military construction started March 1941 and Las Vegas Army Air Field was dedicated Oct 1941.
- The base portion was closed, except for a small force by early Feb 1947.
   McCarran Airport remained open for business



- In 1947, Clark County started purchase discussions with the owner of Alamo Field south of town and it was officially dedicated as McCarran Field (now McCarran International) on Dec 19, 1948. Military activity had been ramping up and the Las Vegas Air Force Base officially opened January 4.
- The stone pillars were moved to the first terminal which was on Las Vegas
  Blvd, just south of the current "Welcome to Las Vegas" sign. The pillars are still
  there but that is now the private aviation entrance for McCarran.



Senator Pat McCarran at McCarran Gate in 1942



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