Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update August 12, 2014





Unregulated Inflow



Unregulated Inflow Into Lake Powell

As of August 11, 2014

	MAF*	% Avg**
• WY 2014 (forecasted):	10.15	94%
April-July 2014 (forecasted):	6.92	97%
• July (observed):	.84	77%
August (forecasted):	.45	90%

*MAF=Million Acre-Feet

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



Storage Conditions As of August 11, 2014

		Percent of <u>Capacity</u>	<u>Δ from last year</u>
Lake Mead elev.	1080.28 ft	38%	25.92 ft
Lake Powell elev.	3,607.56 ft	51%	15.03 ft
Total System Storage (8/2014)	30.40 maf	51%	1 .30 maf
Total System Storage (8/2013)	30.10 maf	51%	



Reservoir Storage

As of August 11, 2014

Colorado River Reservoir Storages

Basin	Reservoir	Max Storage	*Current Storage	Percentage	Current Storage subtotals
Upper Basin	Crystal Reservoir	17,356	15,774	91%	
	Flaming Gorge	3,749,000	3,296,453	88%	
	Fontenelle	344,800	343,584	100%	5,551,152
	Morrow Point	117,190	112,215	96%	3,331,132
	Blue Mesa	829,500	658,061	79%	
	Navajo	1,696,000	1,125,065	66%	
	Lake Powell	24,322,000	12,486,264	51%	
	Lake Mead	26,120,000	10,034,000	38%	
Lower Basin	Lake Mohave	1,809,800	1,746,900	97%	2,337,10
	Lake Havasu	619,400	590,200	95%	2,337,100
	TOTAL	59,625,046	30,408,516	51%	

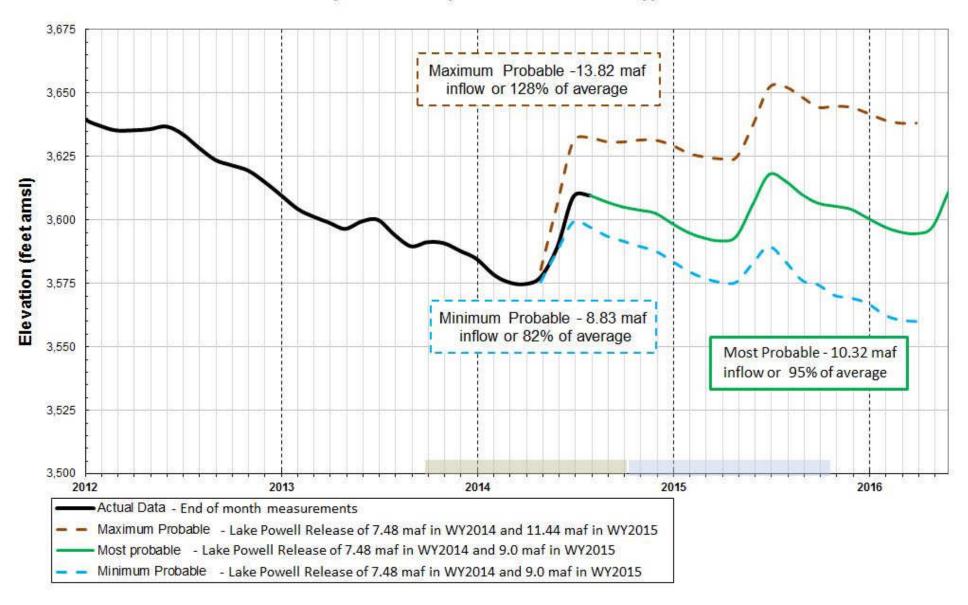
^{*}Data current as 8/10/2014

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

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

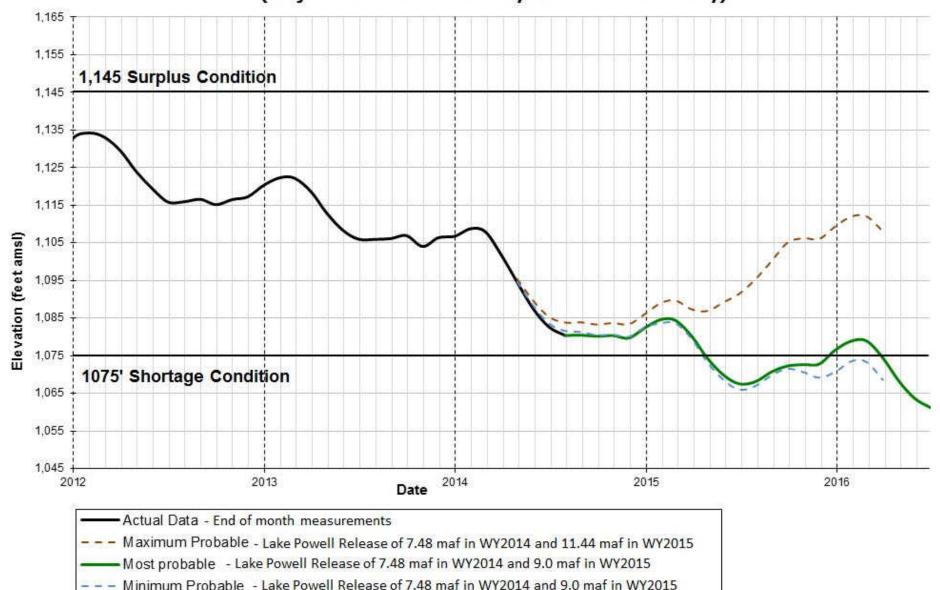
Lake Powell End of Month Elevations

(based on July 2014 24-month Study)



Lake Mead End of Month Elevation Projections

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



Drought and Precipitation



Precipitation – Colorado River Basin

As of August 11, 2014

<u>Upper Colorado</u> Basin

99% (27.1")

WY Precip to Date

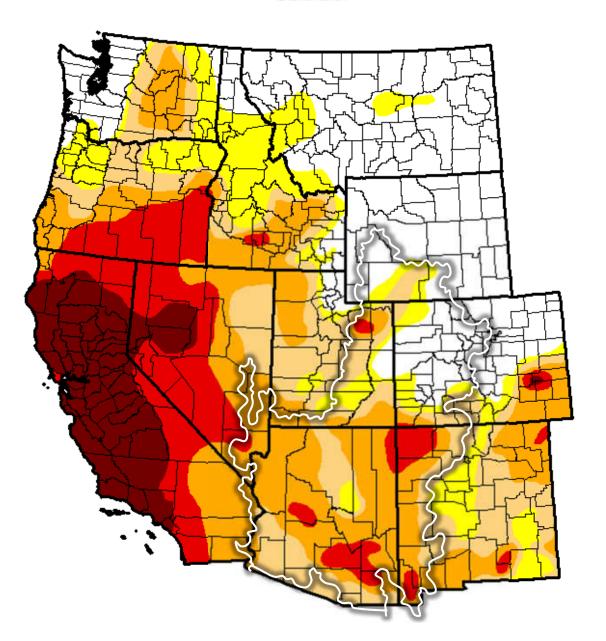
Current Basin Snowpack

NA

(Avg 1981-2010)



U.S. Drought Monitor West



August 5, 2014

(Released Thursday, Aug. 7, 2014) Valid 8 a.m. EDT

Intensity:

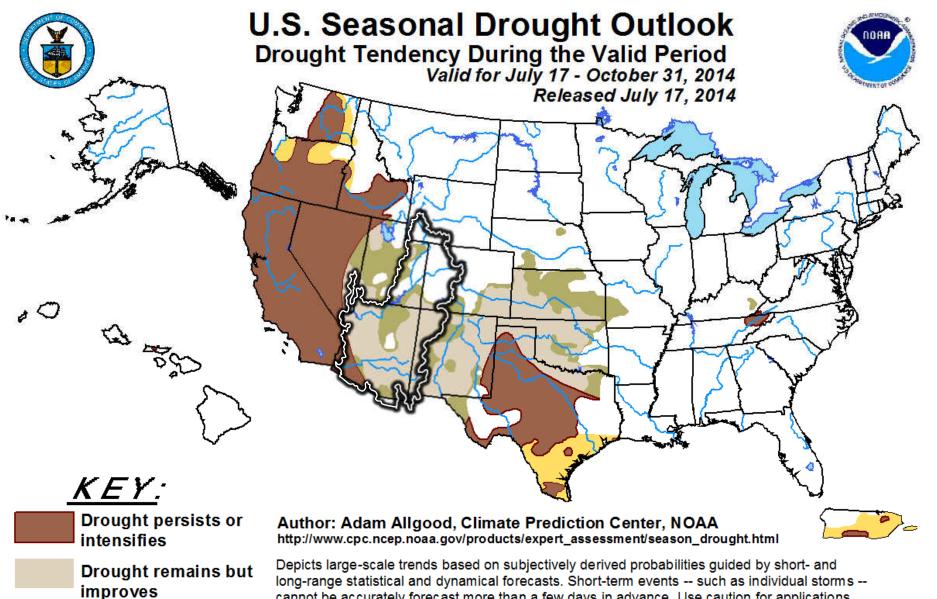
D0 - Abnormally Dry

D1 - Moderate Drought

D2 - Severe Drought

D3 - Extreme Drought

D4 - Exceptional Drought



likely

Drought remains but improves

Drought removal likely

Drought development

Drought development

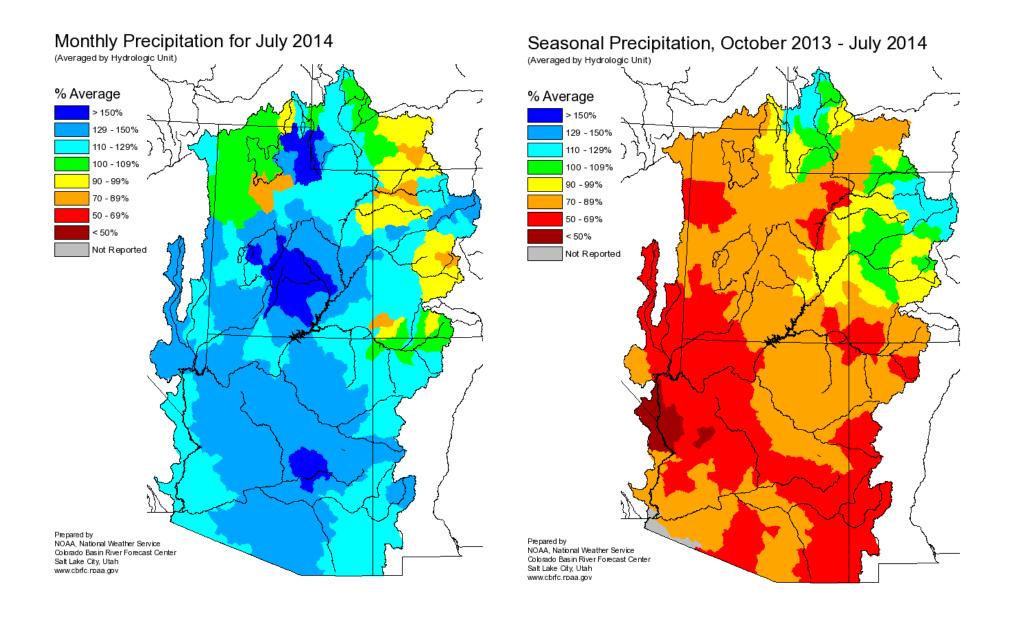
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- 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

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.

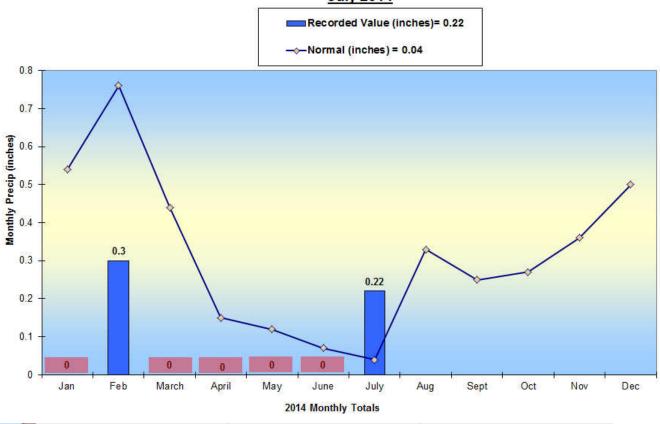
The Green areas imply drought removal by the end of the period (D0 or none)



Monthly Precipitation, Las Vegas, NV

As of July 31, 2014

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

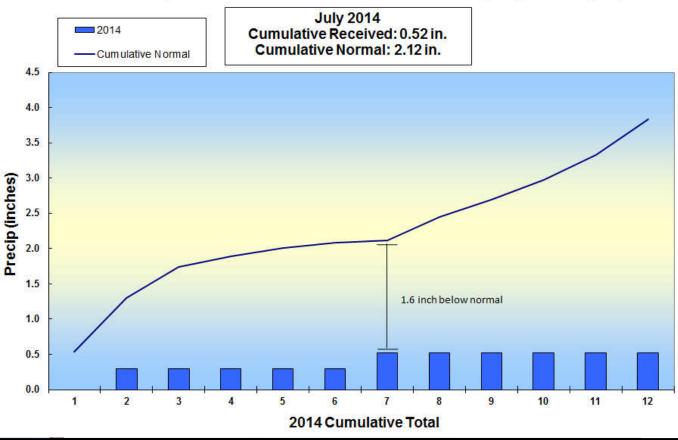




Cumulative Precipitation, Las Vegas, NV

As of July 31, 2014

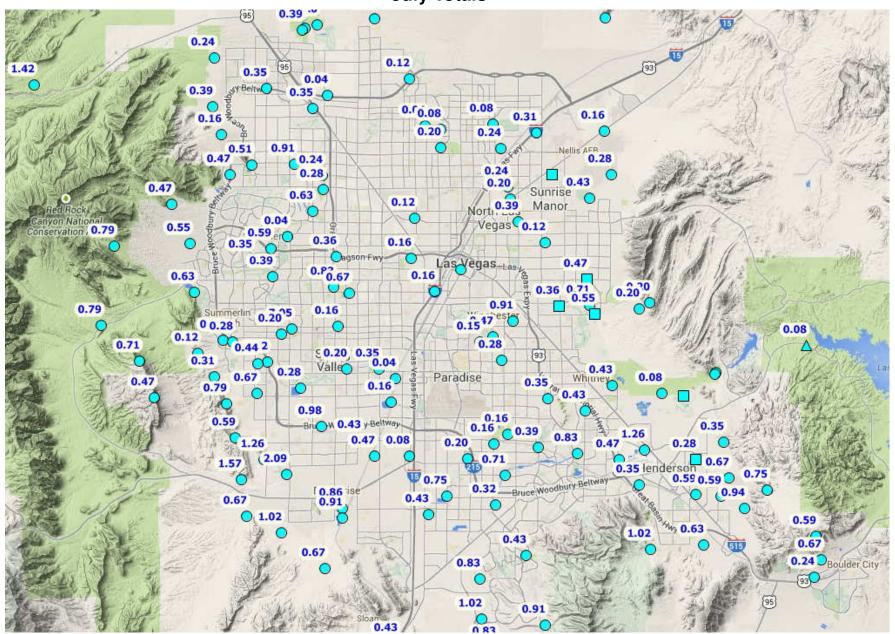
Record of Precipitation at McCarran International Airport, Las Vegas, NV





Clark County Regional Flood Control District Rain Gages

July Totals



Water Use in Southern Nevada



Water Use in Southern Nevada

January – June 2014

2014*: Consumptive Use = 109,285

CR Water Banked = 0

109,285

2013: Consumptive Use = 110,193

CR Water Banked = 0

110,193

Difference = - 908 af

*Subject to final accounting.



Water Use Comparison

January – June 2014

Water Use	2013 Acre Feet	2014 Acre Feet	Difference	% Change
Las Vegas Wash Gauged Flow	101,012	104,342	3,330	3.3%
Diversions	213,096	215,699	2,603	1.2%
Return Flow Credit	102,903	106,413	3,510	3.4%
Consumptive Use	110,193	109,285	-908	-0.8%



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