Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update May 13, 2014





Unregulated Inflow



Unregulated Inflow Into Lake Powell As of May 12, 2014

	MAF*	% Avg**
• WY 2014 (forecasted):	10.82	100%
• April-July 2014 (forecasted):	7.55	105%
April (observed):	0.96	91%
May (forecasted):	2.7	115%

*MAF=Million Acre-Feet

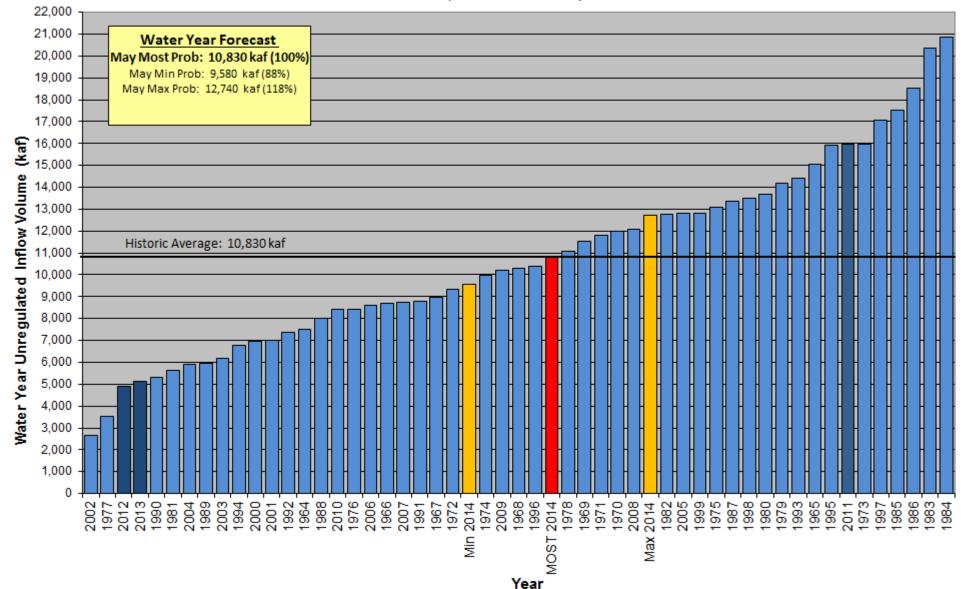
****30-year average, from 1981-2010 (current normal)**

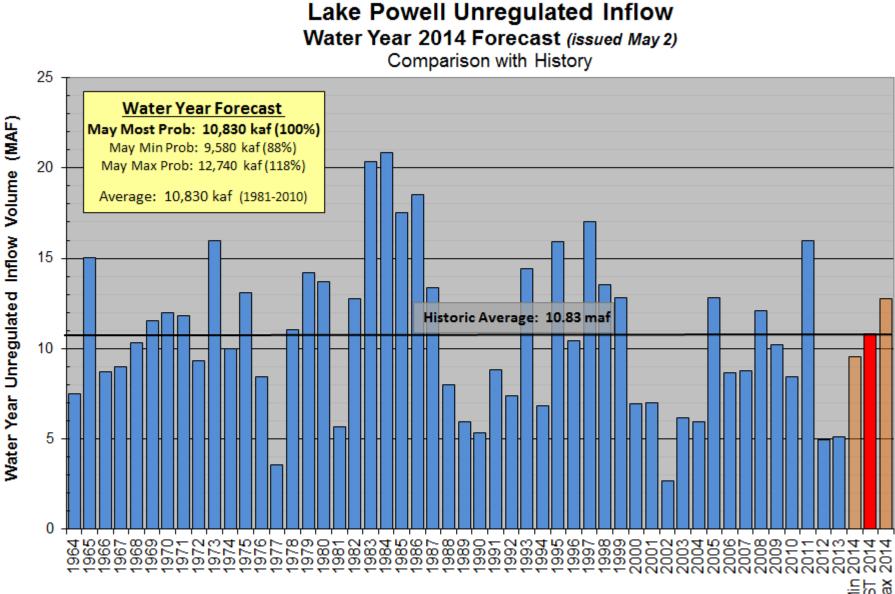


Powell Unregulated Inflow

Water Year 2014 Forecast (Issued May 2)

Comparison with History





Year

Storage Conditions As of May 12, 2014

		Percent of <u>Capacity</u>	<u>∆ from last year</u>
Lake Mead elev.	1,092.64 ft	42%	18.79 ft
Lake Powell elev.	3,580.37 ft	41%	15.77 ft
Total System Storage (5/2014)	28.21 maf	47%	L 2.81 maf
Total System Storage (5/2013)	31.02 maf	52%	



Reservoir Storage

As of May 8, 2014

Colorado River Reservoir Storages

Basin	Reservoir	Max Storage	*Current Storage	Percentage	Current Storage subtotals
Upper Basin	Crystal Reservoir	17,356	14,189	82%	_
	Flaming Gorge	3,749,000	2,991,975	80%	_
	Fontenelle	344,800	160,399	47%	4,883,223
	Morrow Point	117,190	106,725	91%	4,003,223
	Blue Mesa	829,500	543,510	66%	
	Navajo	1,696,000	1,066,425	63%	
	Lake Powell	24,322,000	9,883,100	41%	_
Lower Basin	Lake Mead	26,120,000	11,116,000	43%	
	Lake Mohave	1,809,800	1,668,700	92%	2,255,50
	Lake Havasu	619,400	586,800	95%	
	TOTAL	59,625,046	28,137,823	47%	

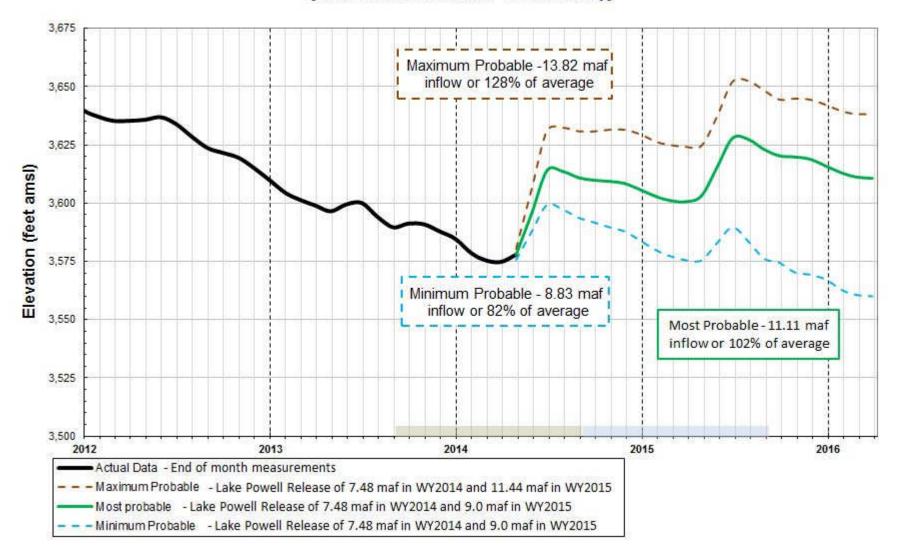
*Data current as 5/8/2014

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

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

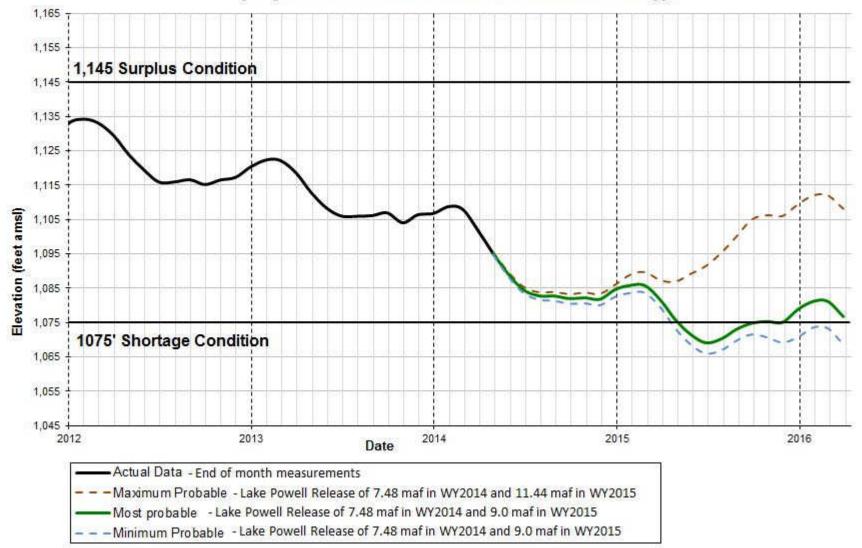
Lake Powell End of Month Elevations

(based on APR 2014 24-month Study)



Lake Mead End of Month Elevation Projections

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



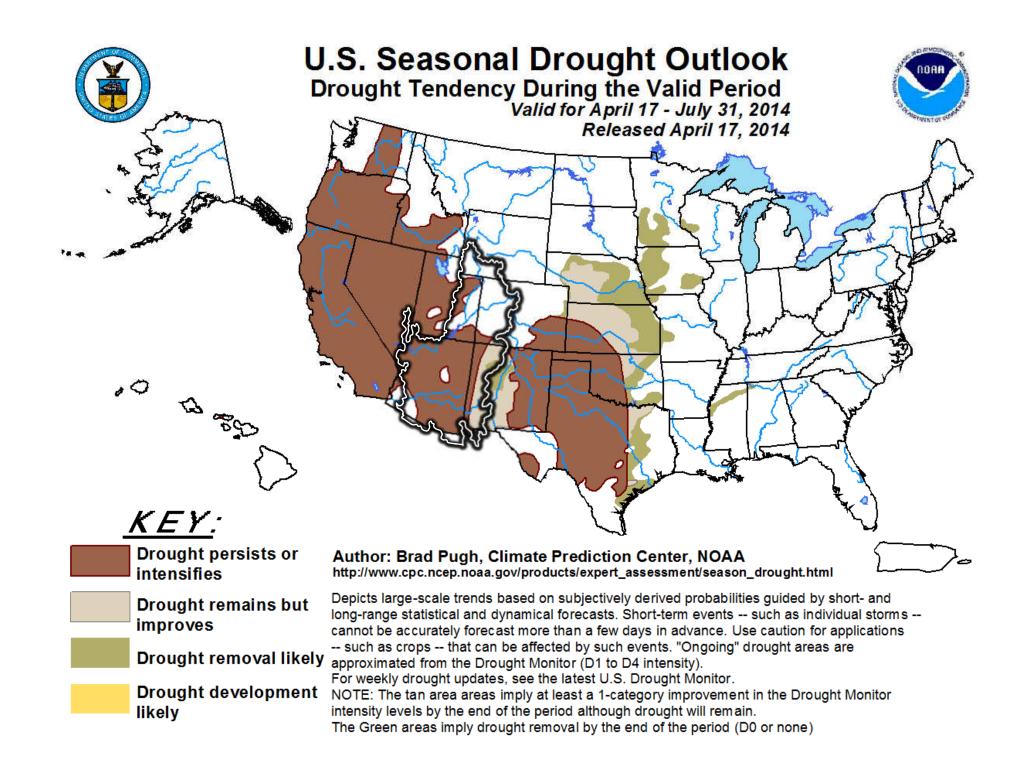
Drought and Precipitation



U.S. Drought Monitor West

May 6, 2014 (*Released Thursday, May. 8, 2014*) Valid 8 a.m. EDT





Precipitation – Colorado River Basin As of May 12, 2014

WY Precip to Date

<u>Upper Colorado</u> <u>Basin</u>

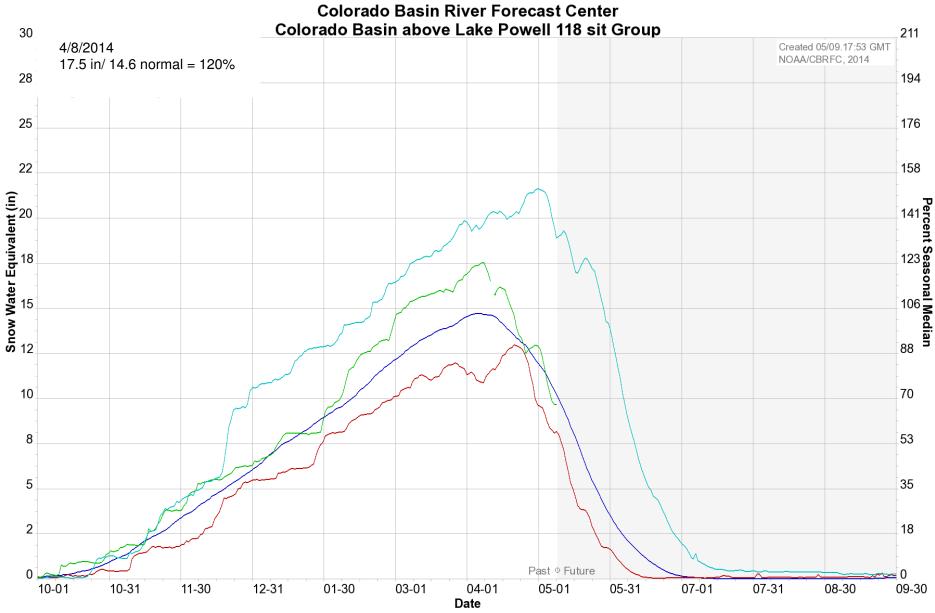
101% (22.3")

Current Basin Snowpack

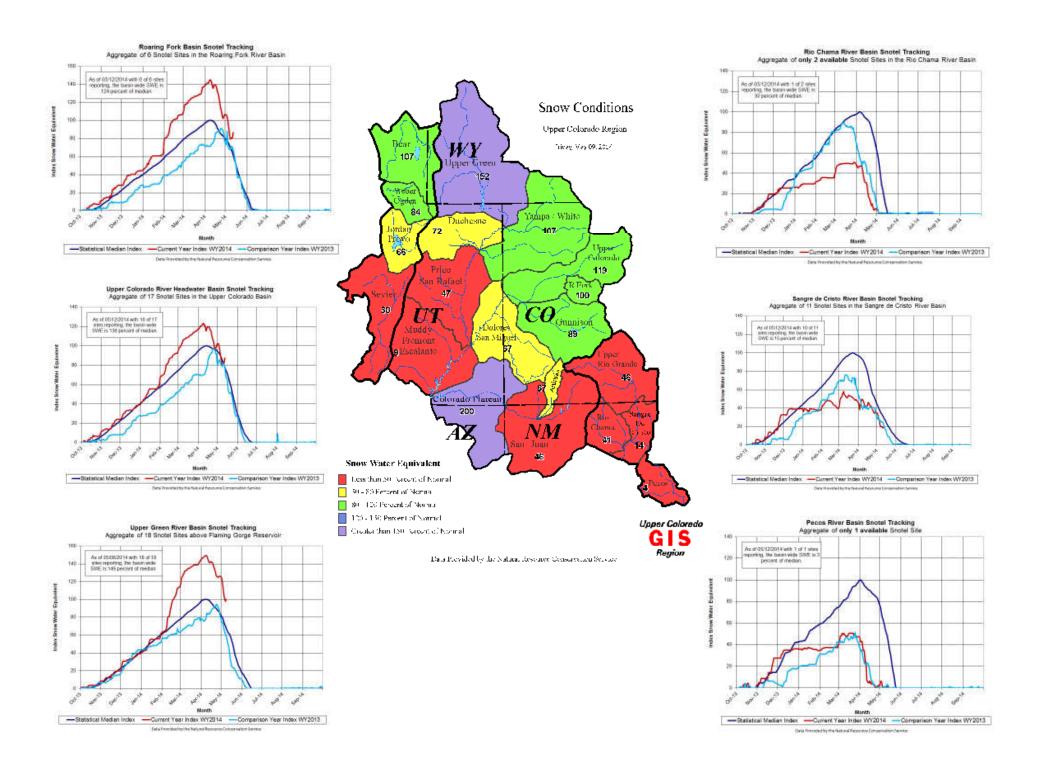
119% (10.3")

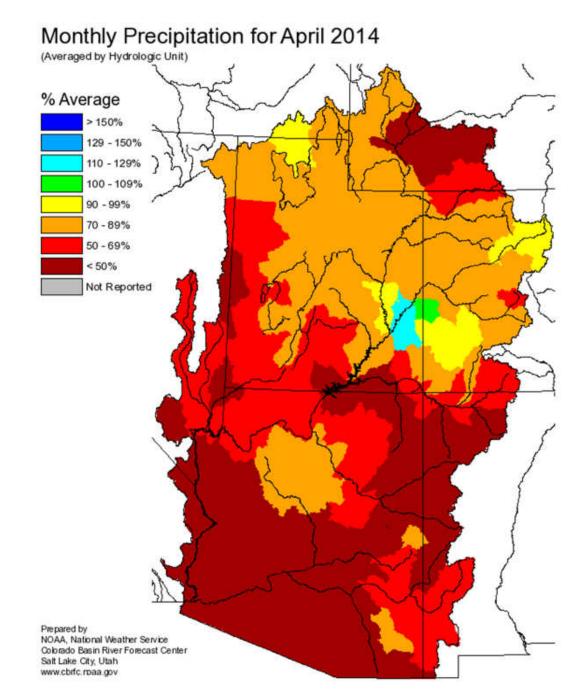
(Avg 1981-2010)



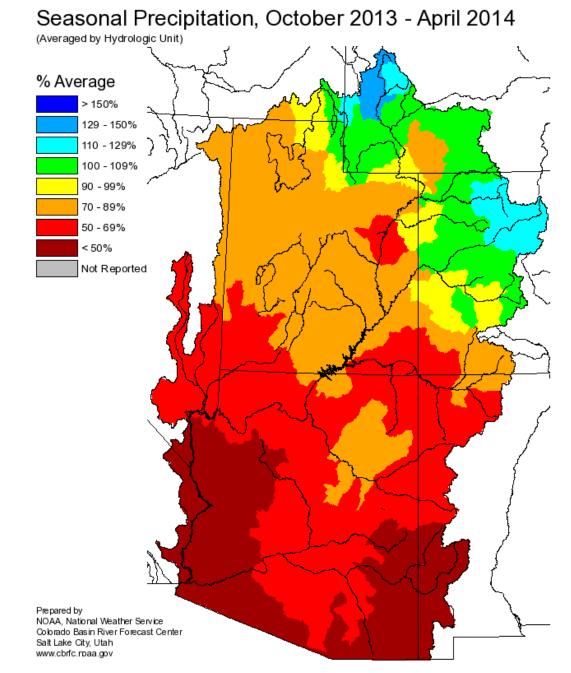


Average 1981-2010 _ 2014 _ 2013 _ 2011 _





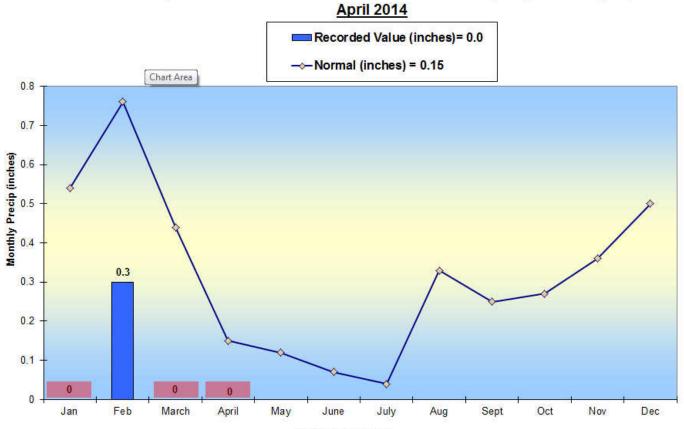
http://www.cbrfc.noaa.gov/product/mapsum/map/cbrfcM201402.png



http://www.cbrfc.noaa.gov/product/mapsum/map/cbrfcM201402.png

Monthly Precipitation, Las Vegas, NV As of April 30, 2014

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

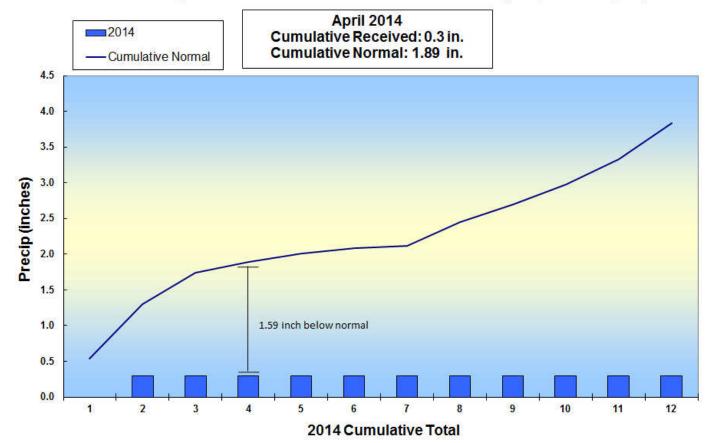


2014 Monthly Totals

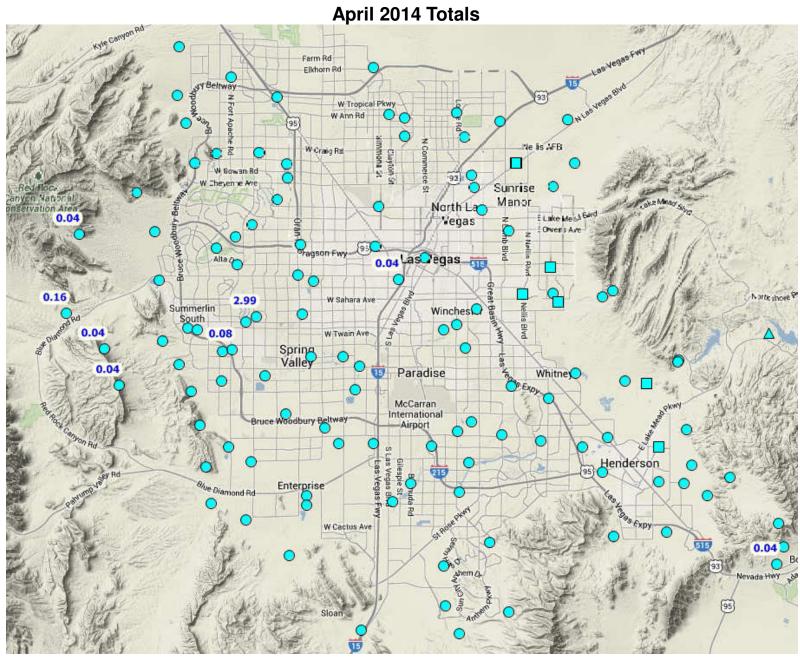


Cumulative Precipitation, Las Vegas, NV As of April 30, 2014

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







Clark County Regional Flood Control District Rain Gages

http://gustfront.ccrfcd.org/gagemapprimary/gagemap.html

Water Use in Southern Nevada



Water Use in Southern Nevada

January – March 2014

2014*: Consumptive Use = 30,157CR Water Banked = 30,157 2013*: Consumptive Use = 32,731CR Water Banked =32,731

Difference = - 2,574 af



Water Use Comparison

January – March 2014

Water Use	2013 Acre Feet	2014 Acre Feet	Difference	% Change
Las Vegas Wash Gauged Flow	53,076	55,645	2,569	4.8%
Diversions	86,259	86,596	337	0.4%
Return Flow Credit	53,527	56,438	2,911	5.4%
Consumptive Use	32,731	30,157	-2,574	-7.9%



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