Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update July 9, 2013





Hydrologic Conditions



Unregulated Inflow Into Lake Powell

As of July 1, 2013

	MAF*	% Avg**
• WY 2013 (projected):	4.65	43%
 April-July 2013 (projected): 	2.88	40%
• May 2013 (observed):	1.12	48%
• June 2013 (projected):	1.10	41%

*MAF=Million Acre-Feet

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



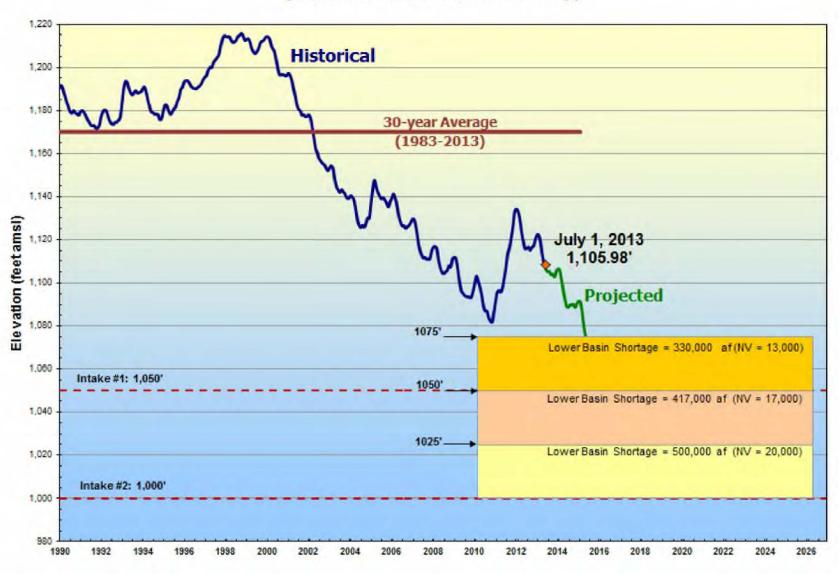
Storage Conditions As of July 1, 2013

		Percent of <u>Capacity</u>	<u>Δ from last year</u>
Lake Mead elev.	1,105.98 ft	47%	9.89 ft
Lake Powell elev.	3,600.07 ft	48%	33.62 ft
Total System Storage (6/2013)	30.99 maf	52%	5.06 maf
Total System Storage (6/2012)	36.05 maf	60%	



Lake Mead End of Month Elevation Projections

(based on the June 2013 24-month study)



Lake Mead End of Month Elevation Projections

(based on the June 2013 24-month study)



Precipitation - Colorado River Basin

As of July 1, 2013

<u>Upper Colorado</u> Basin

WY Precip to Date 76% (18.7")

Current Basin Snowpack

NA% (NA")

(Avg 1981-2010)



Record of Precipitation, Las Vegas, NV

As of June 30, 2013

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

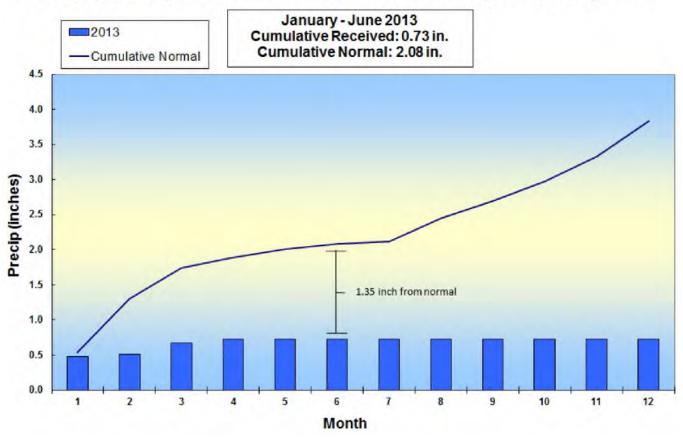
June 2013 Recorded Value (inches)= 0.0 →Normal (inches) = 0.07 8.0 0.7 Monthly Precip (inches) 0.3 0.2 0.16 0.1 0.03 March May July Sept Oct Nov Dec Jan Feb April June Aug Month



Record of Precipitation, Las Vegas, NV

As of June 30, 2013

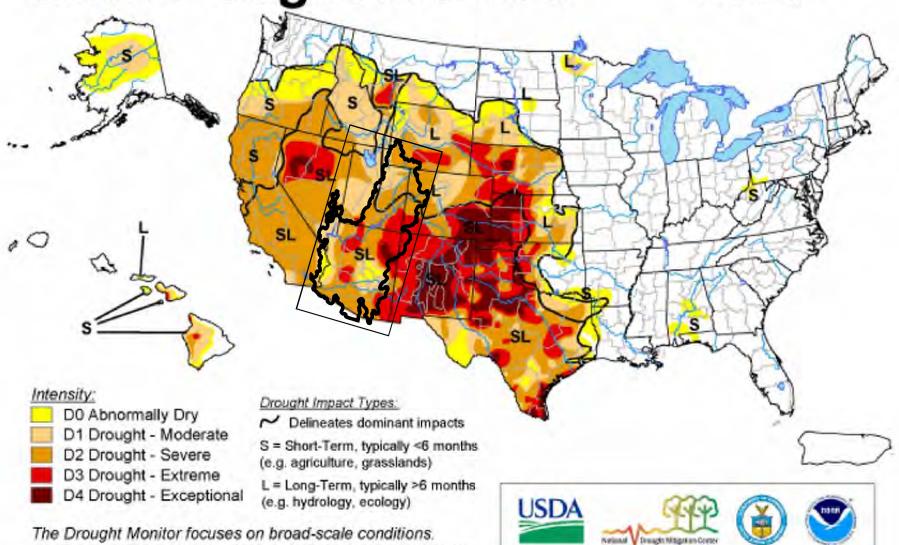
Record of Precipitation at McCarran International Airport, Las Vegas, NV





U.S. Drought Monitor

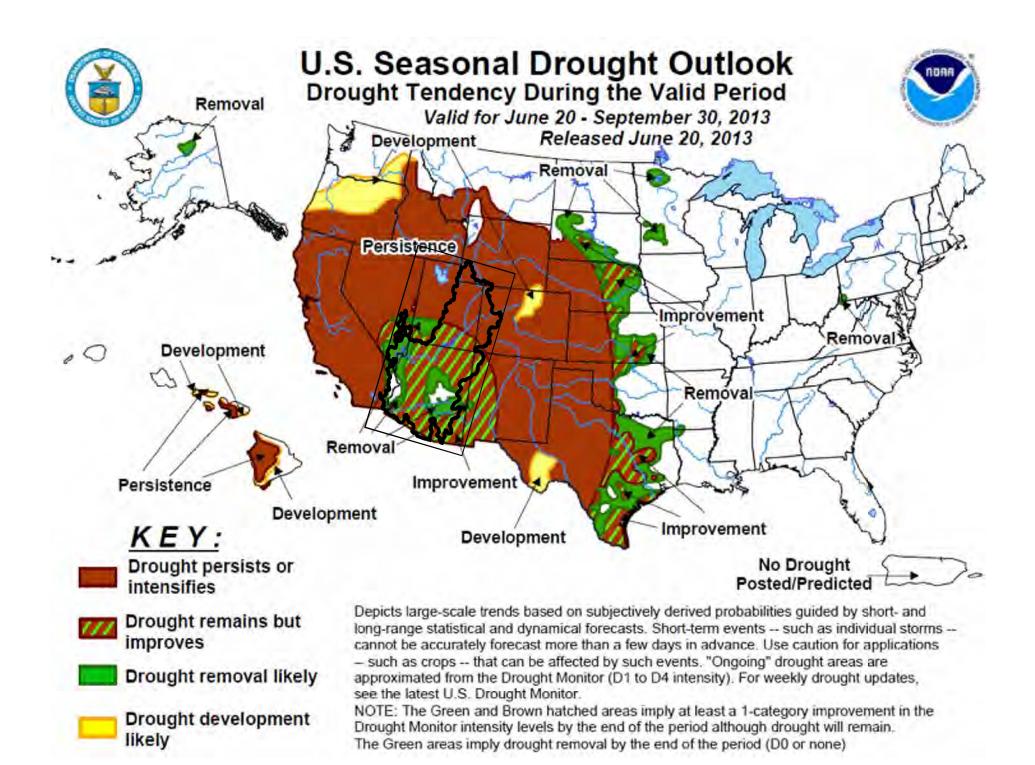
July 2, 2013 Valid 7 a.m. EDT



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

http://droughtmonitor.unl.edu/

Released Wednesday, July 3, 2013
Author: Matthew Rosencrans, NOAA/NWS/NCEP/CPC



Water Use in Southern Nevada



Water Use in Southern Nevada January - May

2013*: Consumptive Use = 81,551

CR Water Banked = 0

81,551

2012: Consumptive Use = 87,987

CR Water Banked = 0

87,987

Difference = -6,436 af

*Subject to final accounting.

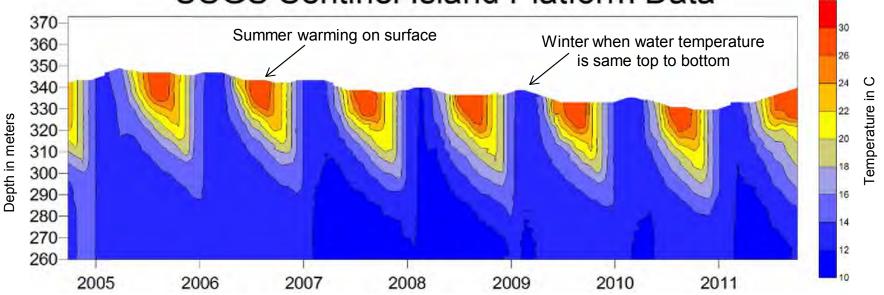


Lake Mead Temperature



Lake Mead Temperature

USGS Sentinel Island Platform Data



In the Boulder Basin of Lake Mead the temperatures have a normal surface summer peak around 30 °C and the lower layer remains around 11 °C. The lake stratification has remained similar during lowering lake elevations, but the proportion of cold water in the lower layers has decreased with elevation. A trend of the data would suggest increasing temperatures, but it is due to the volume of cold water that has decreased.

Thanks to SNWA for providing technical assistance



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