

# 2014 Spring Peak Release

In cooperation with the SJRIP, Reclamation did not conduct a spring peak release in 2014, in favor of recovering the reservoir and ensuring that user needs and target base flows can be met.

# SJRIP Spring Peak Flow Goals

(March 1 – July 31)

Critical Habitat	>10,000 cfs for 5-days	>8000 cfs for 10-days	>5000 cfs for 21-days	>2500 cfs for 10-days
Gages	Req. Frequency – 20%	Req. Frequency – 33%	Req. Frequency – 50%	Req. Frequency – 80%
San Juan River @ 4 Corners		0	0	17

# **Navajo Current Conditions**

(as of 8/24/14)

Elevation = 6038.68

Storage = 1,098,609 af (65% Full, 43% of Active)

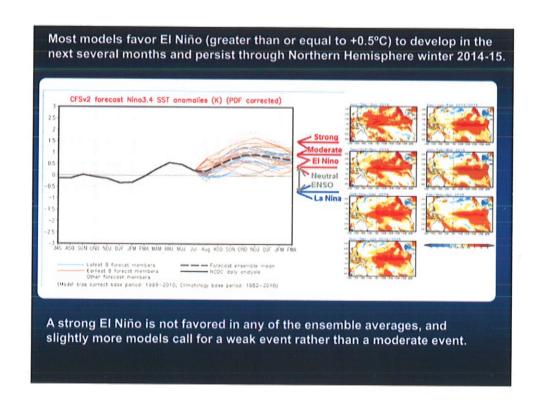
Observed Inflow = 371 cfs

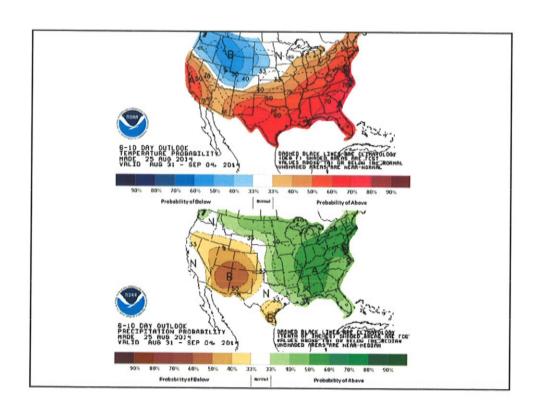
Release = 750 cfs (release reduced to 550 cfs 8/26)

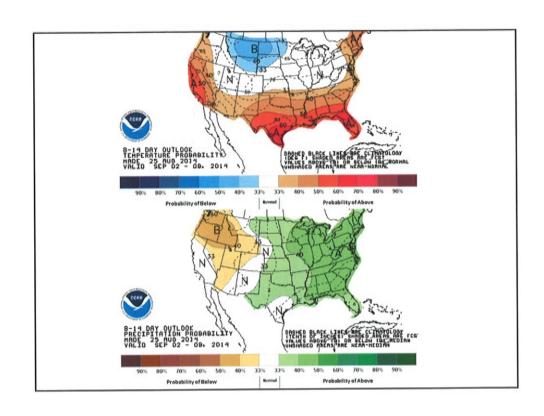
NIIP = 452 cfs

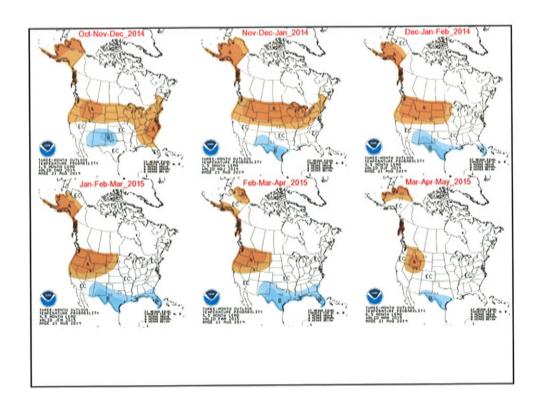
SJ-Chama Diversion = 1.8 cfs

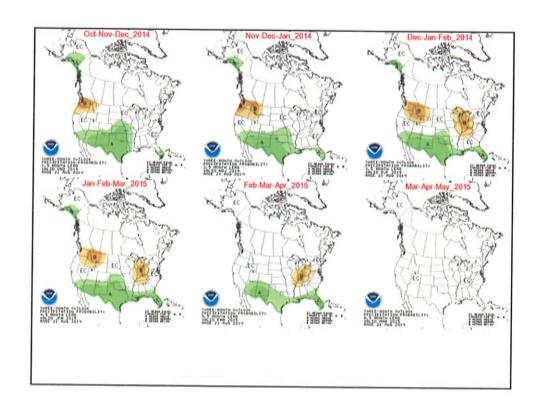
Apr-Jul Modified Unreg Inflow = 428,086 af (58% avg)











# Water Year 2015 Forecasts

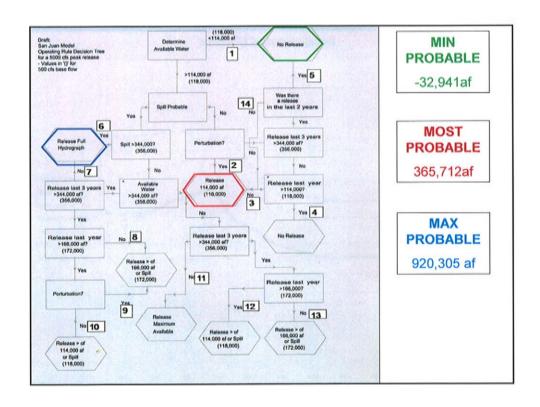
(as of August 1st CBRFC Forecast)

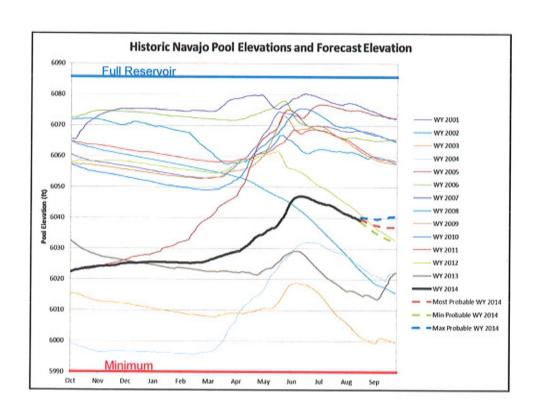
Forecast	Water Year		Preliminary April-July	
	Volume (af)	% of avg	Volume (af)	% of avg
MIN	430,000	40%	265,580	36%
MOST	885,000	82%	631,000	85%
MAX	1,450,000	134%	1,039,620	140%

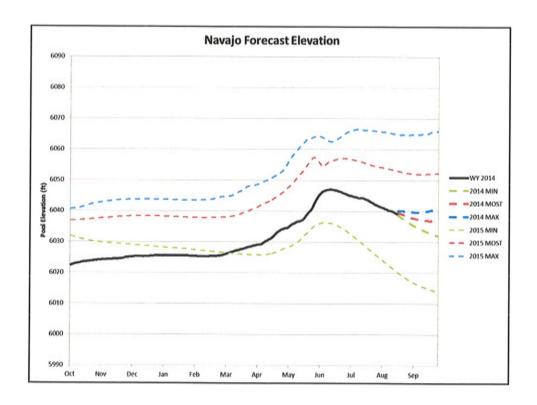
## MIN? MOST? MAX?

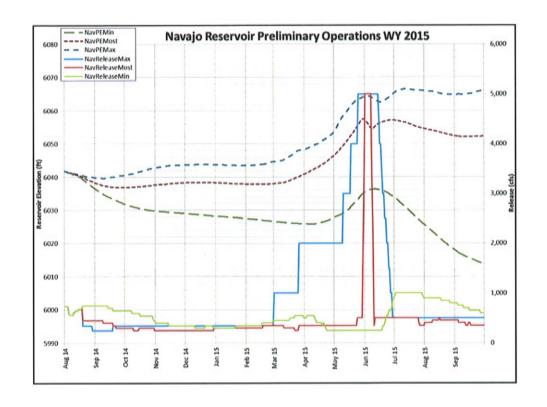
- MINIMUM Probable Forecast (90% Exceedance Probability): This means that the forecast hydrology has a 90% chance of being exceeded.
- MOST Probable Forecast (50% Exceedance Probability): This
  means that the forecast hydrology has a 50% chance of being
  exceeded. It is the median forecast.
- MAXIMUM Probable Forecast (10% Exceedance Probability): This means that the forecast hydrology has a 10% chance of being exceeded.

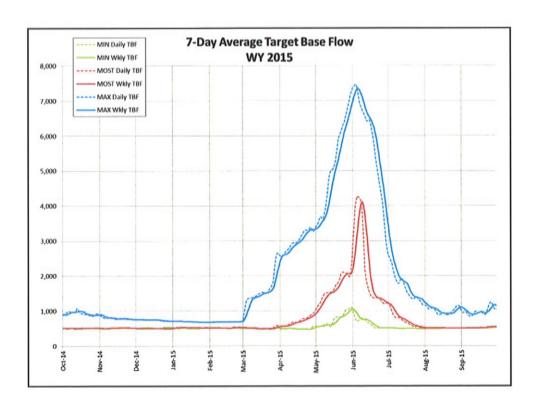
These forecasts only encompass 80% of the total range of likelihoods! The actual could be 10% below the minimum or 10% above the maximum!











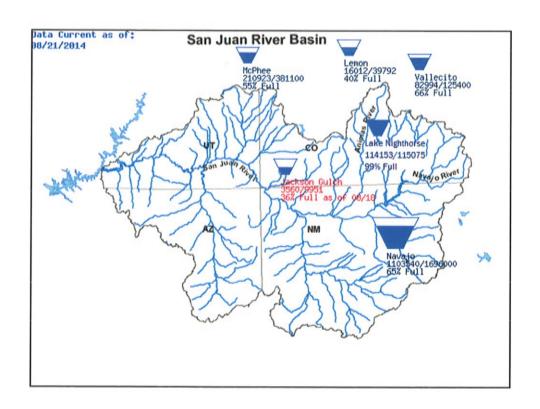
Slide from Aug 2013 Operations Meeting

# Water Year 2014 Forecasts

(as of August 19th 2013 CBRFC Forecast)

Foundant	April - July		
Forecast	Volume (af)	% of avg	
MIN	291,000	39%	
MOST	600,000	81%	
MAX	737,000	100%	

Actual 2014 April - July: 428,086 af (58% avg)



# Major San Juan River Basin Reservoirs (8/24/2014)

### **Nighthorse**

- Elevation = 6881.38 ft
- Storage = 114,153 af (99% Full)
- Release = 0 cfs
- Pumping = 0 cfs

### Vallecito

- Elevation = 7647.71 ft
- Storage = 81,534 af (65% Full, 107.7% of average)
- Release = 557 cfs
- Inflow = 208 cfs
- April-July Inflow = 149,000 AF (77% avg)

### Lemon

- Elevation = 8099.63 ft
- Storage = 15,613 af (39% Full, 66% of average)
- Release = 148 cfs
- Inflow = 54 cfs
- April-July Inflow = 37,000 AF (67% avg)

# Navajo Maintenance Activities

- Completed: Rock fall mitigation and concrete repairs to spillway
- September 8<sup>th</sup>: Security fence along frontage road begins (1 month). New fence will not block pedestrian access to river.
- September 13<sup>th</sup>: Right groin rehabilitation work beginning

# How You Can Access Information

Bureau of Reclamation www.usbr.gov/uc

USGS http://water.usgs.gov/nwis

Colorado Basin River Forecast Center www.cbrfc.noaa.gov



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# Summary

- · WY2014 had below average snowpack for most of the year
- WY2014 April July Inflow was 58% of average (428 Kaf)
- · No Spring Peak Release was conducted
- · One of the SJRIP flow goals were met (2500 cfs)
- Minimum Summer Release = 250 cfs, Current Release = 750 cfs
- Release will continue to be that which is necessary to target the minimum target base flows while recovering the reservoir.
- Most Probable April July hydrologic forecast for 2015 is 85% of average.
- A 1-week at 5,000 cfs spring peak release is forecast for spring 2015 under the Most Probable forecasted operations.
- Typically the CBRFC hydrologic forecasting skill for the coming snow year is very low during the August forecasts. ESP Forecast for WY2015 shows a wide variance.
- Current models show a 65% chance of a weak or moderate El Nino forming this winter. Impacts on the basin are uncertain.
- Next Operations Meeting: Tuesday, January 20, 2015

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