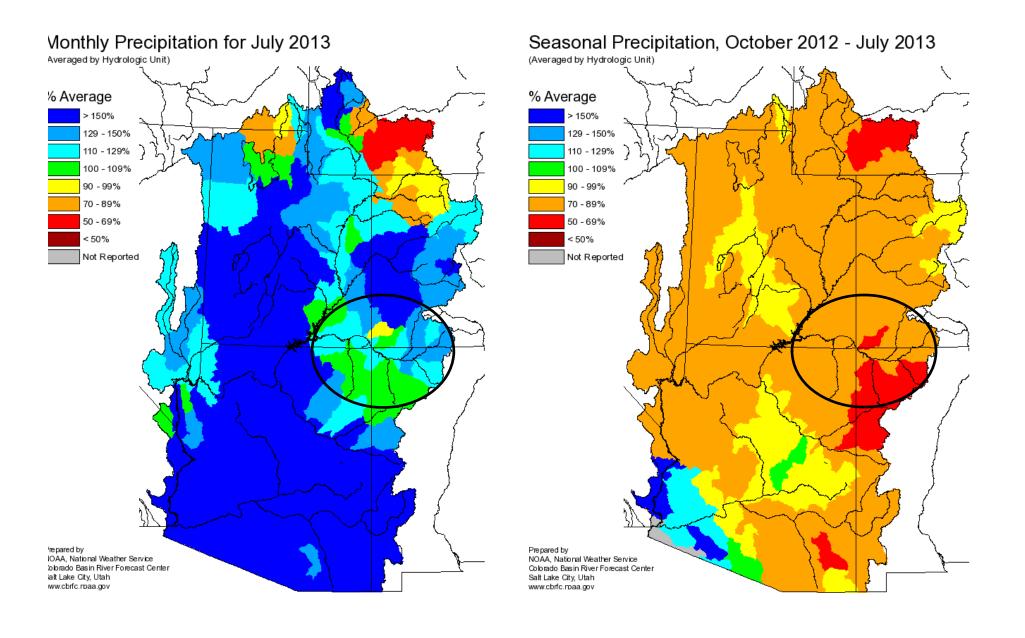
RECLAMATION

Managing Water in the West

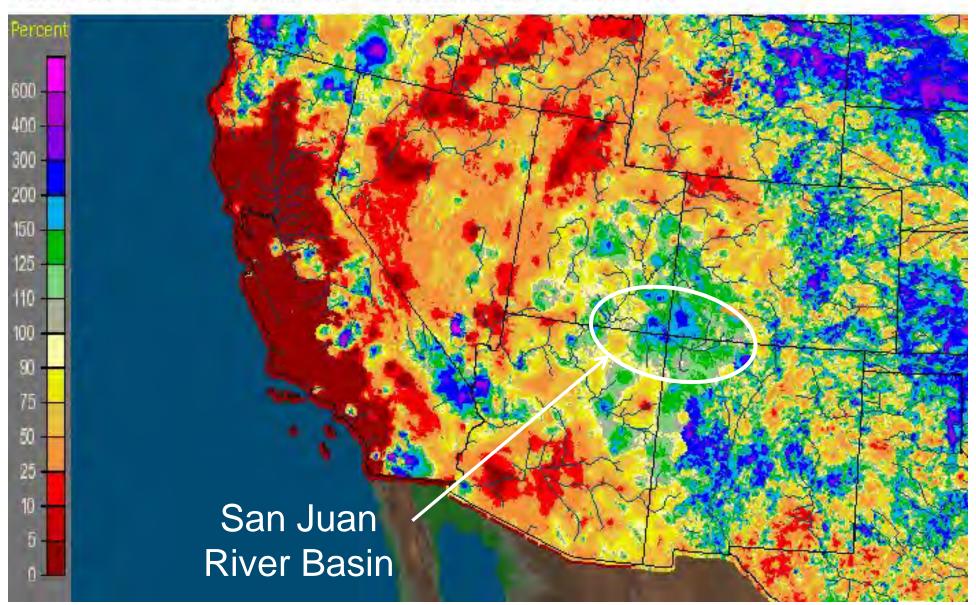


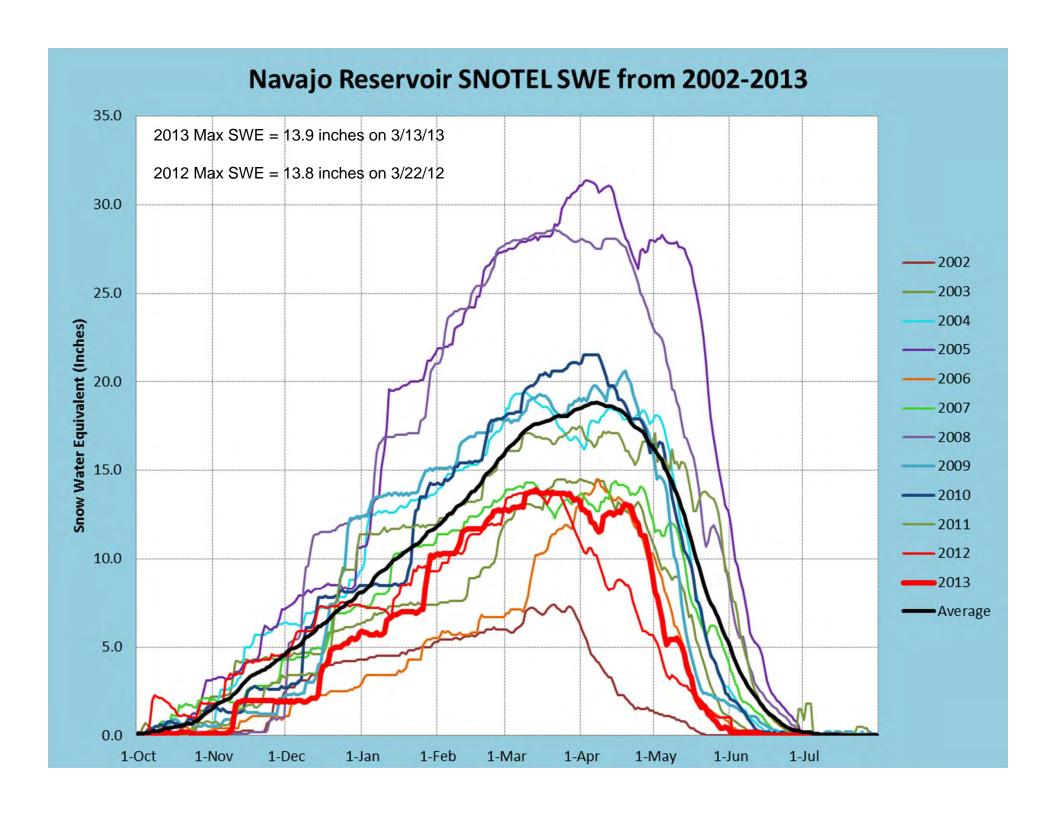
U.S. Department of the Interior Bureau of Reclamation

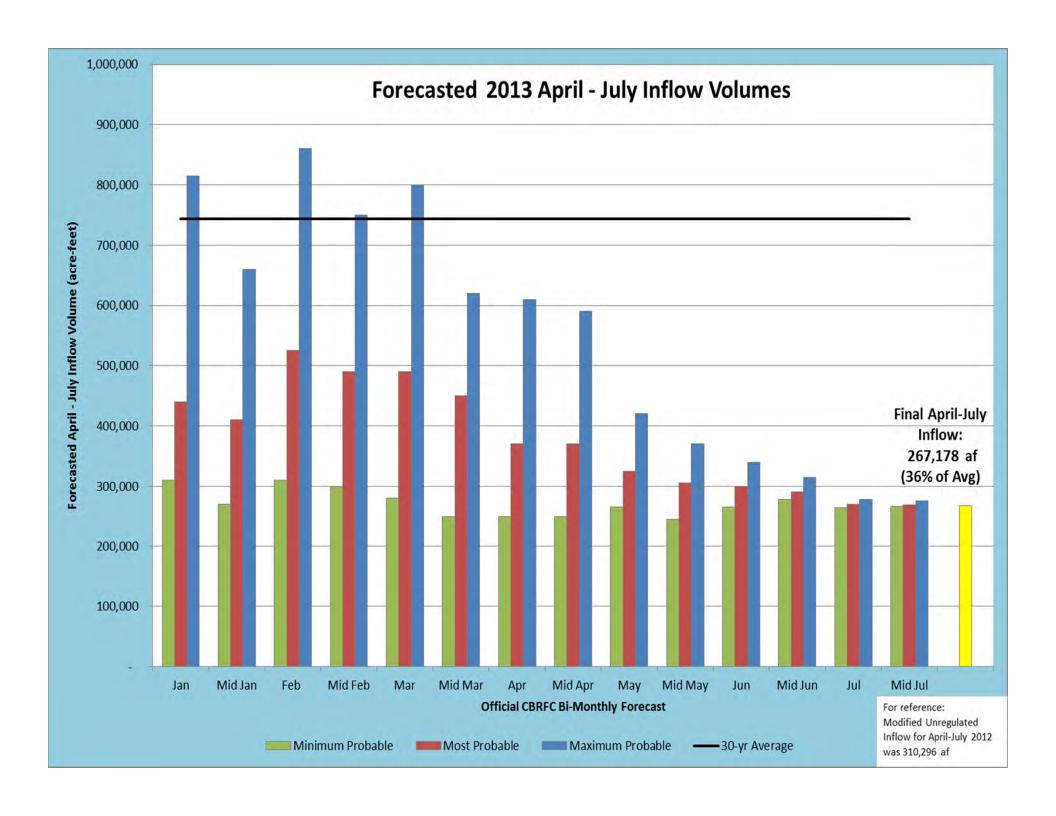


% of Average Precipitation for August to Date

Colorado Basin RFC Salt Lake City, UT: Current Month to Date Percent of Norma: Valid at 8/26/2013 1200 UTC- Created 8/26/13 19:44 UTC

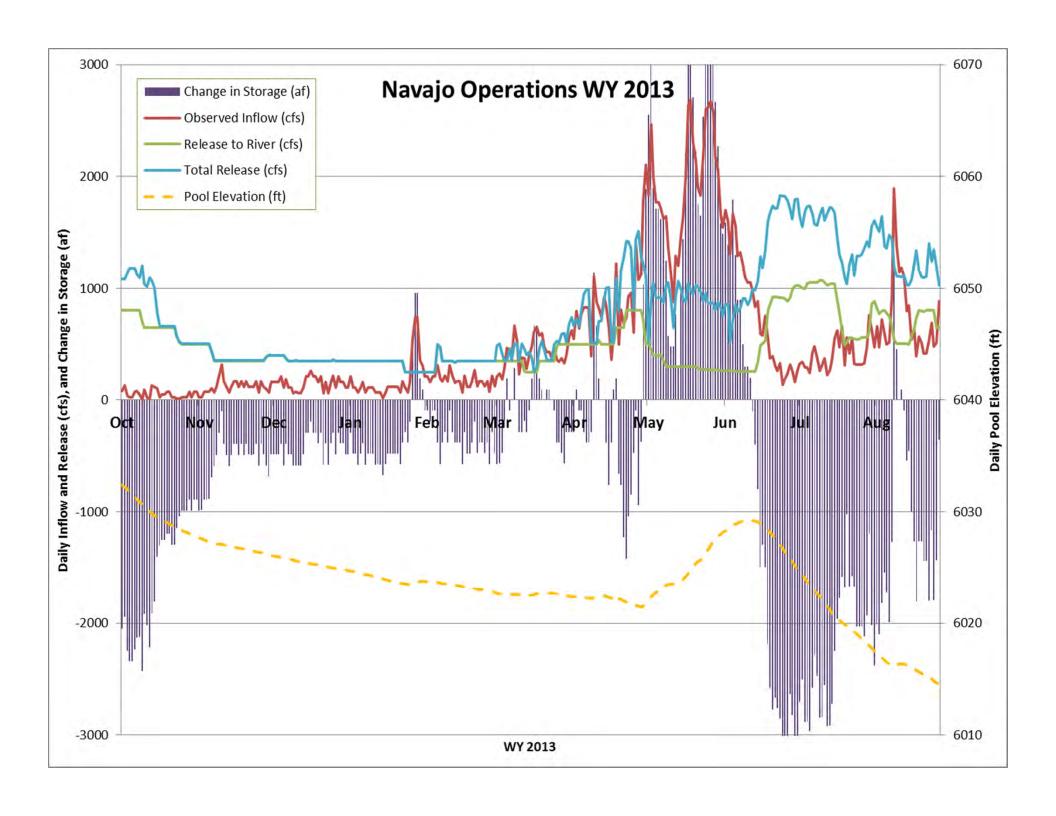


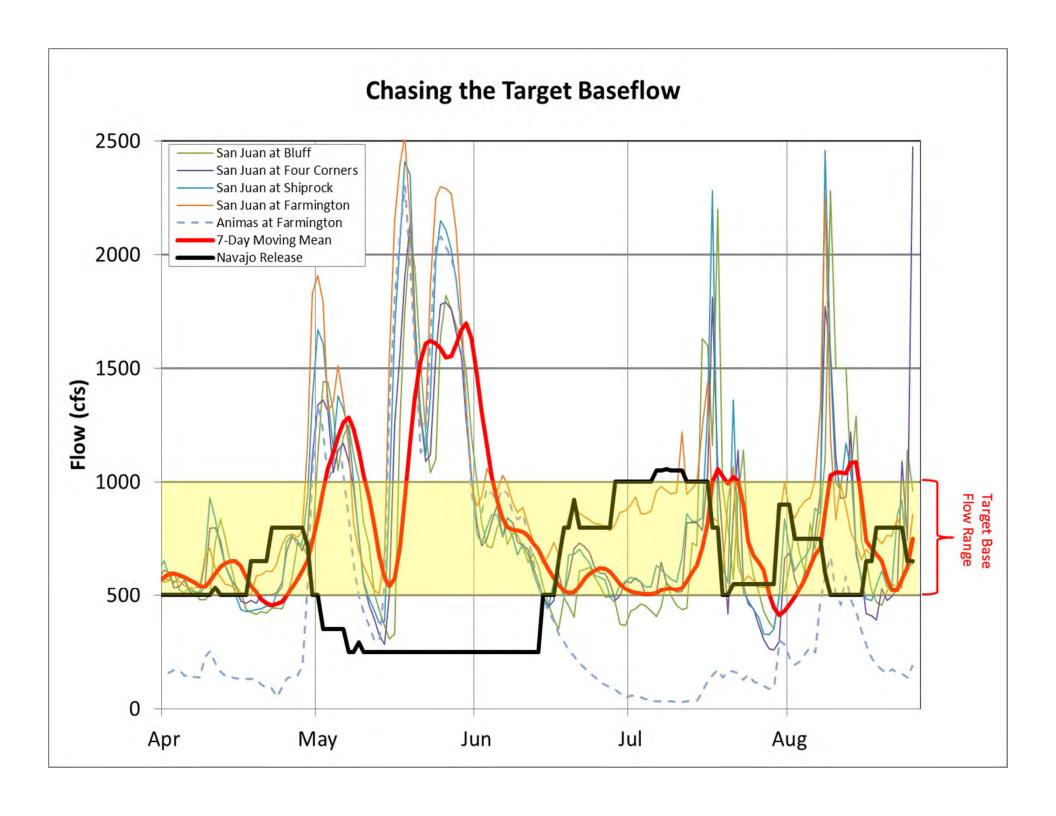


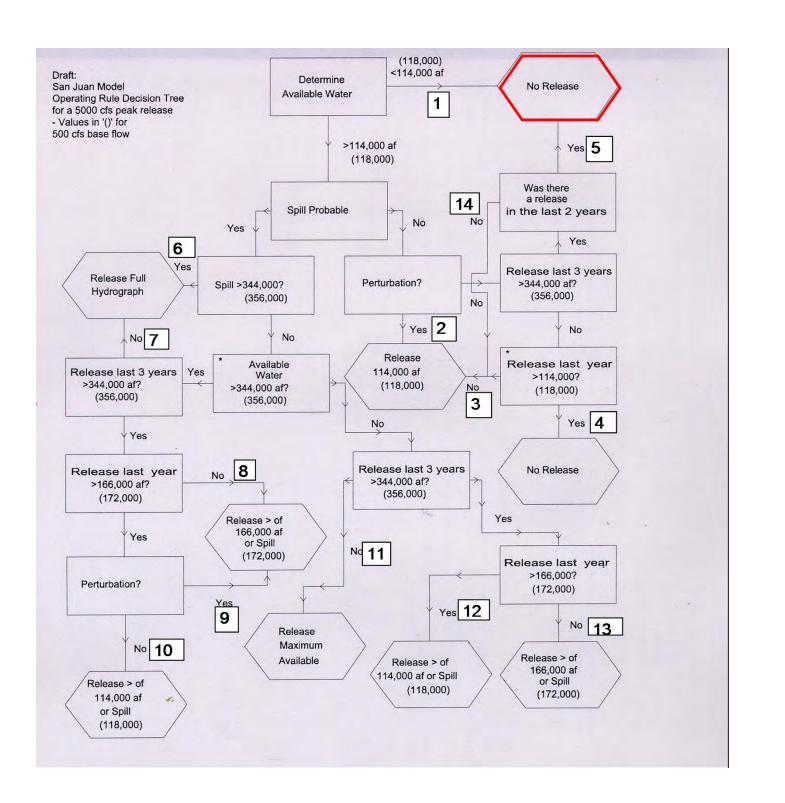


Total April-July Rank*Modified Unregulated Inflow

2002	2013	1996	2003	2012	2000	2006
36,741	267,178	275,589	306,809	310,296	326,843	378,589







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	0	0

Navajo Current Conditions

(as of 8/26/13)

```
Elevation = 6014.93 (63% of Average)
```

Storage = 865,484 af (51% Full, 19% of Active)

Observed Inflow = 2346 cfs

Release = 650 cfs

NIIP = 458 cfs

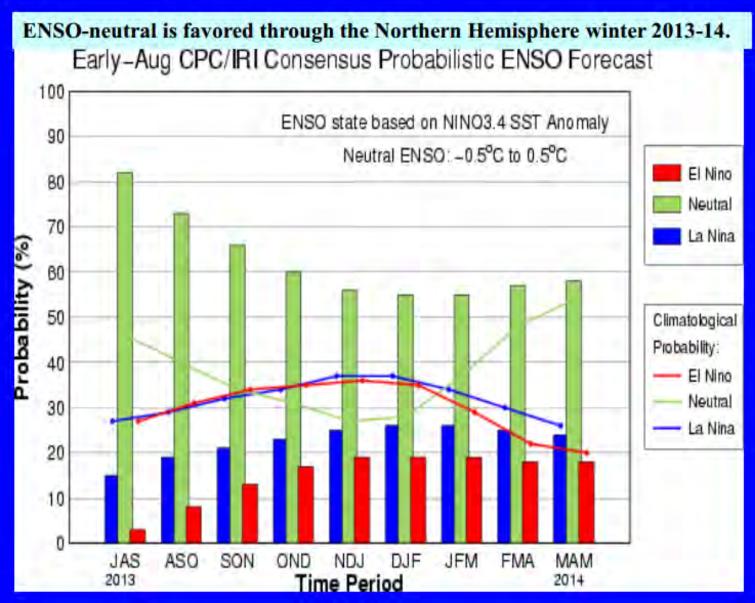
SJ-Chama Diversion = 233 cfs

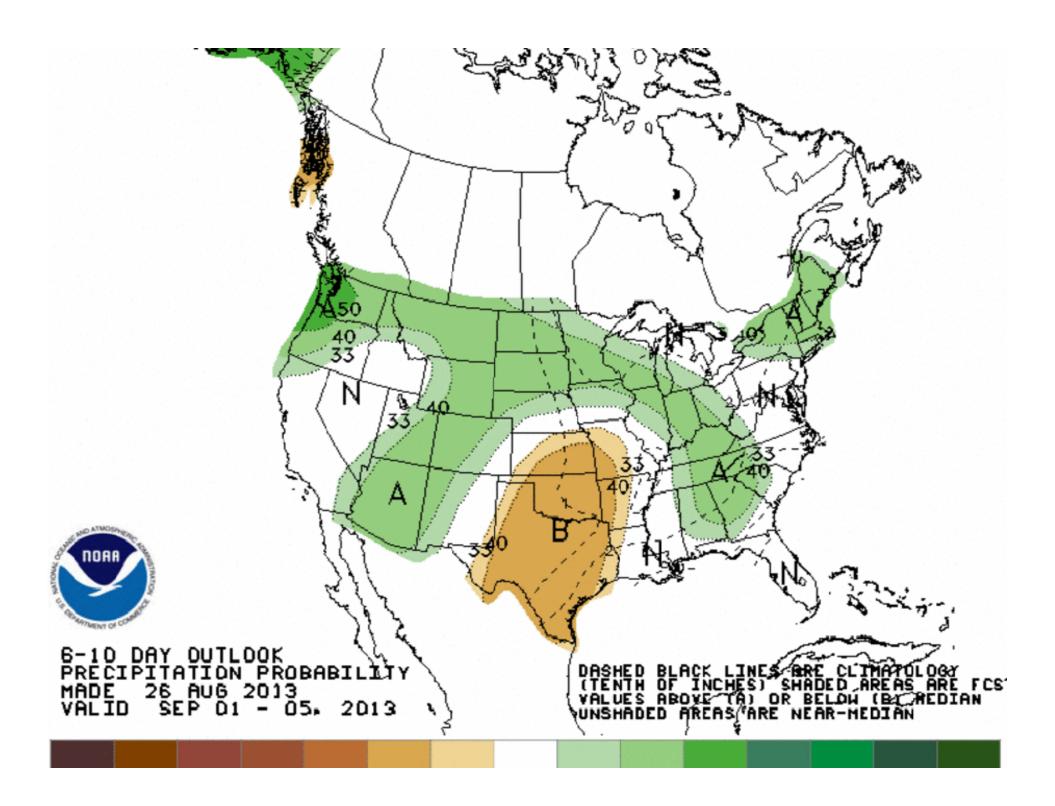
Apr-Jul Modified Unreg Inflow = 267,178 af (42% avg)

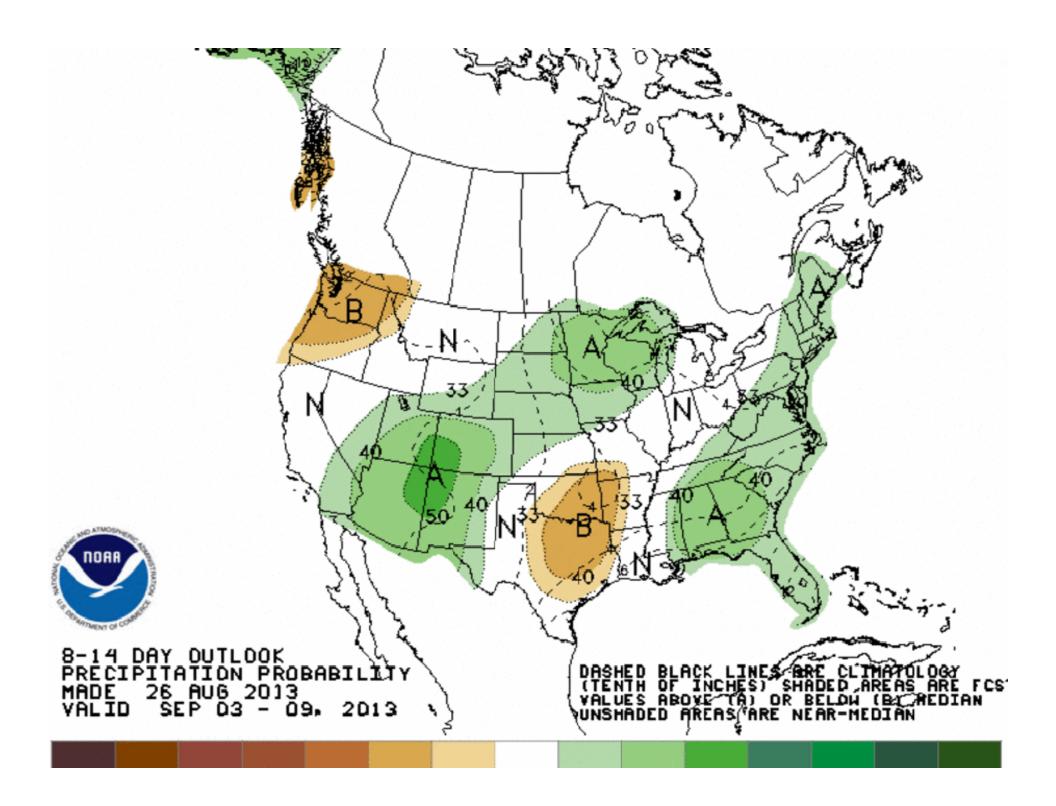


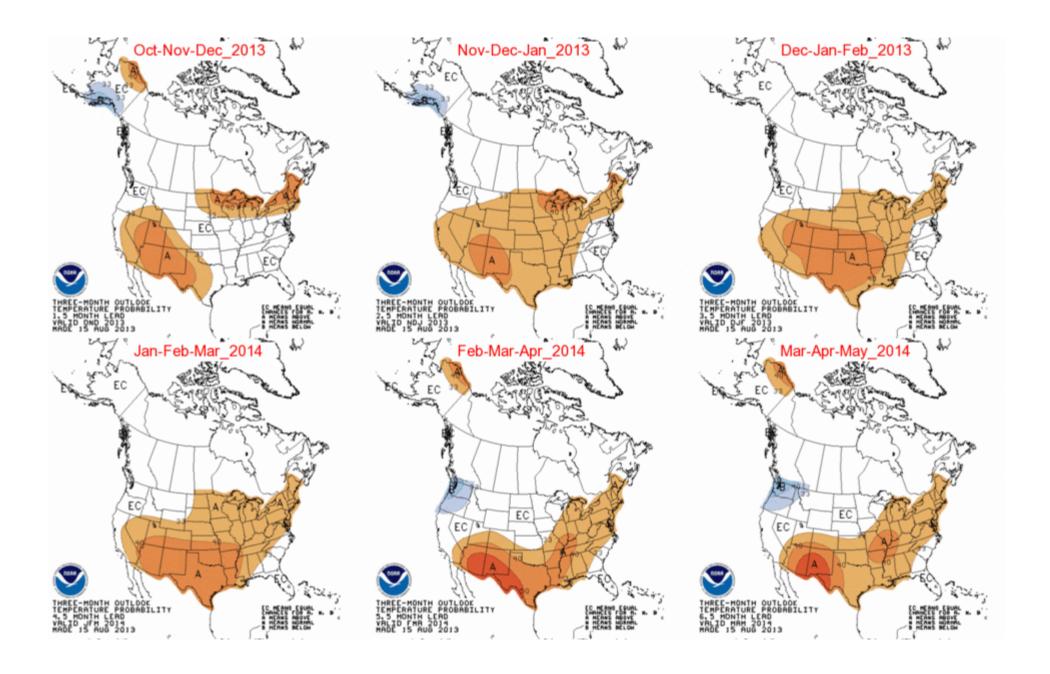
CPC/IRI Probabilistic ENSO Outlook

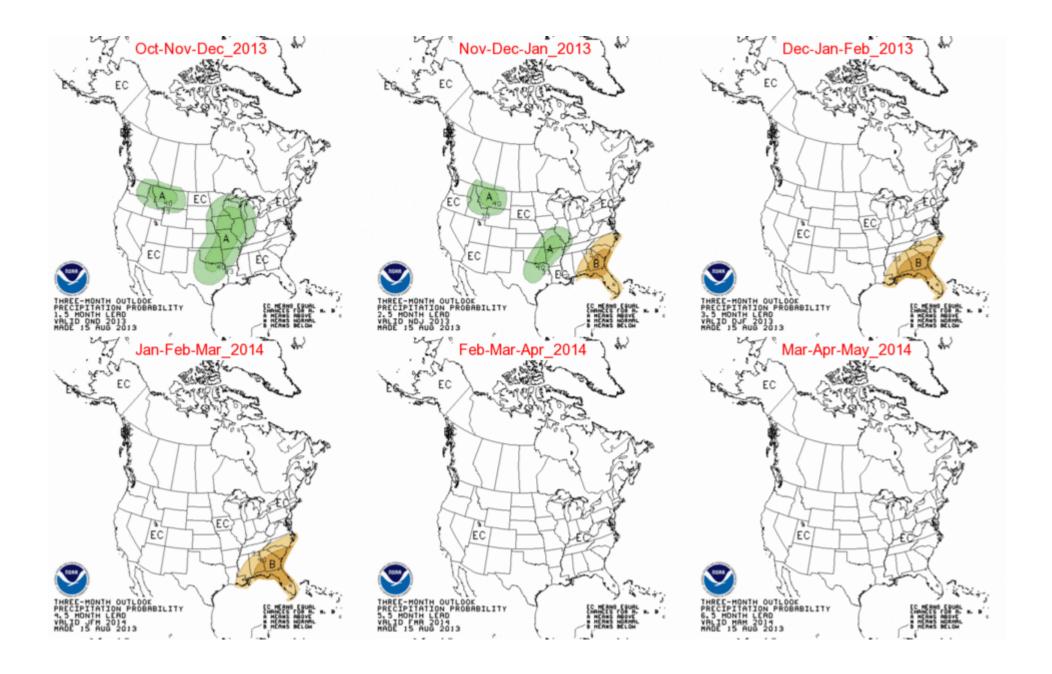
(updated 8 August 2013)











Water Year 2014 Forecasts

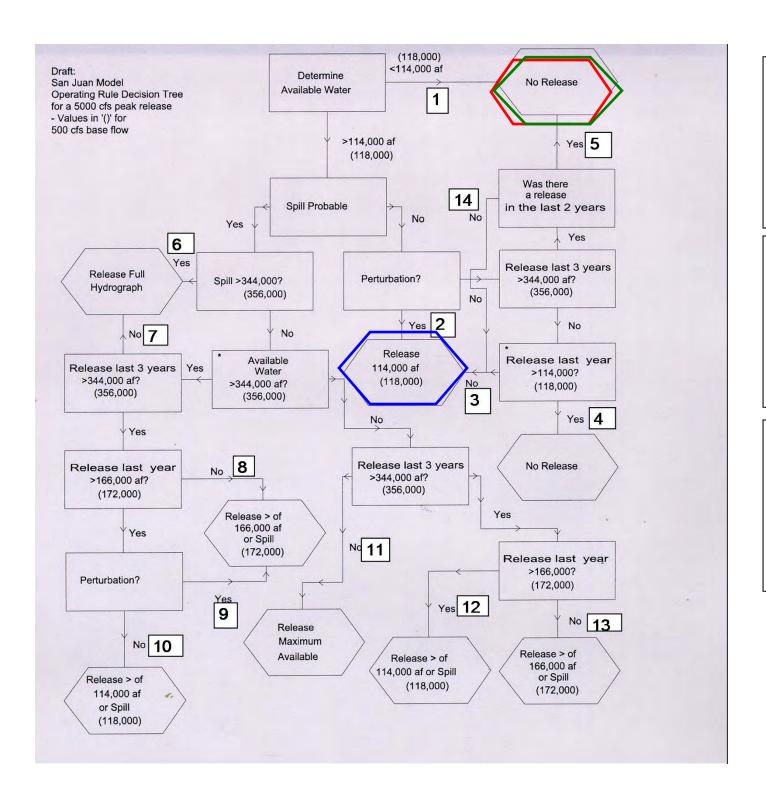
(as of August 19th CBRFC Forecast)

Forecast	Water Year		April - July		
	Volume (af)	% of avg	Volume (af)	% of avg	
MIN	468,000	43%	291,000	39%	
MOST	838,000	78%	600,000	81%	
MAX	1,064,000	99%	737,000	100%	

2014 Spring Peak Release

Probability	Available Water	Release
Min	(252,000) af	none
Most	(32,000) af	none
Max	500,000 af	1 week at 5,000 cfs

As of August 19th CBRFC Forecast



MIN PROBABLE

(252,000) af

PATH #1

MOST PROBABLE

(32,000) af

PATH #1

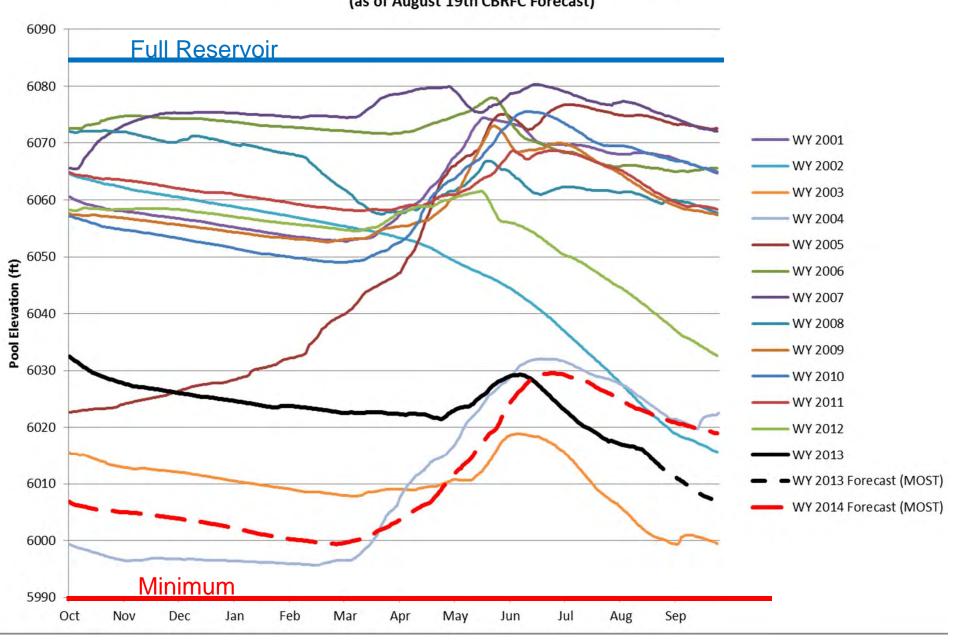
MAX PROBABLE

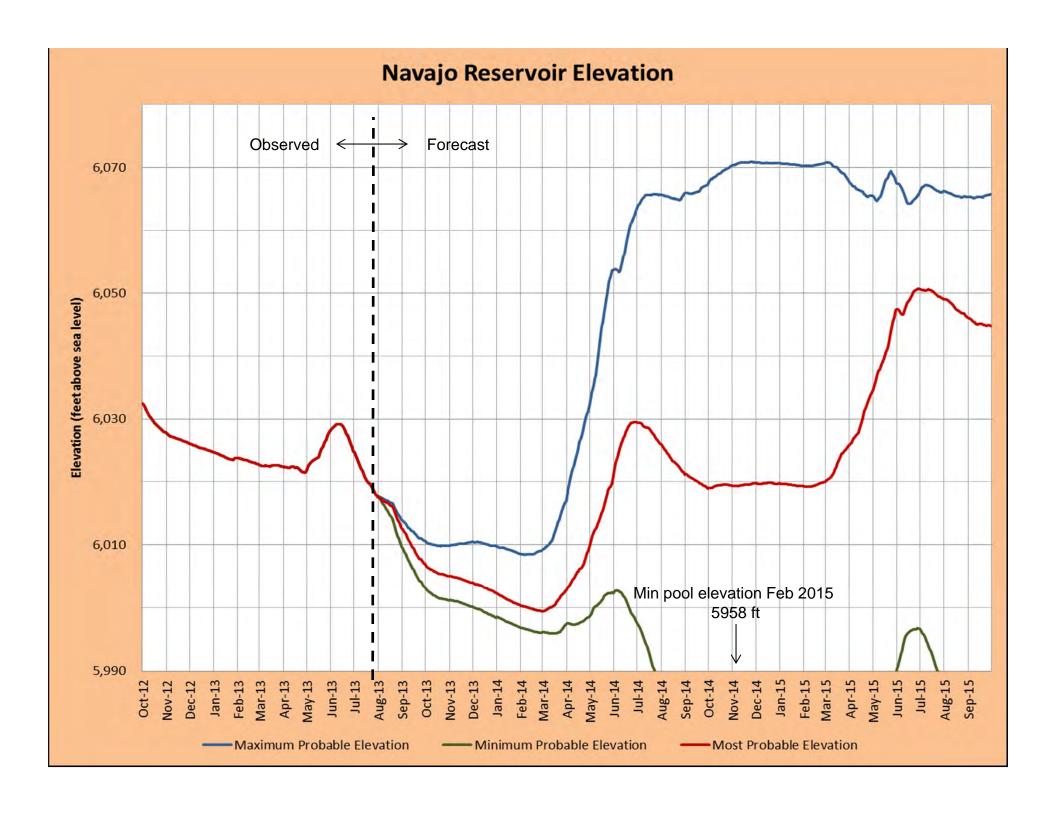
500,000 af

PATH #3

Historic and Forecast Pool Elevations based on current Most Probable Operation Plan

(as of August 19th CBRFC Forecast)





WHAT IS A SHORTAGE?

To prevent a shortage, several preventative water saving measures may take place.

A "Shortage" is declared when under Minimum Probable Conditions, the pool elevation at Navajo is forecasted to drop below 5990 ft at any time during the year. This is the elevation required to maintain NIIP diversions.



1. Use minimum base flow of 350 cfs



2. Use minimum base flow of 250 cfs



3. SJRIP voluntary reduction in **Target Base Flow**

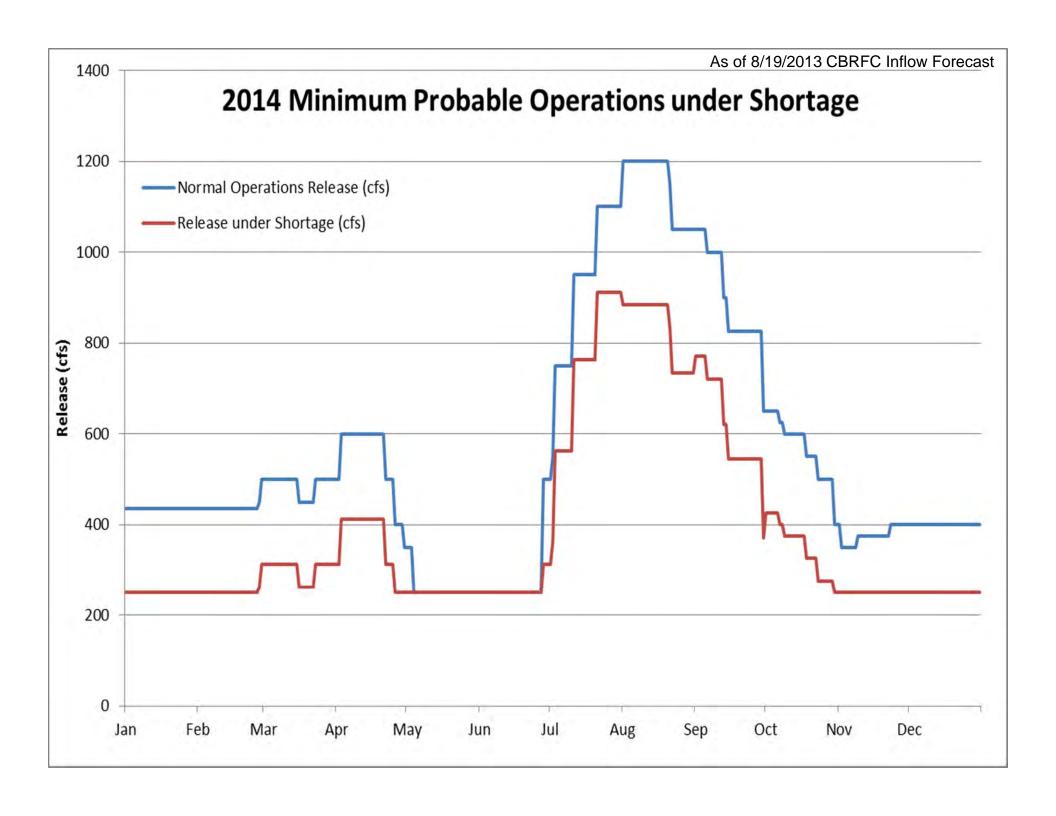


4. Shortage Sharing Begins

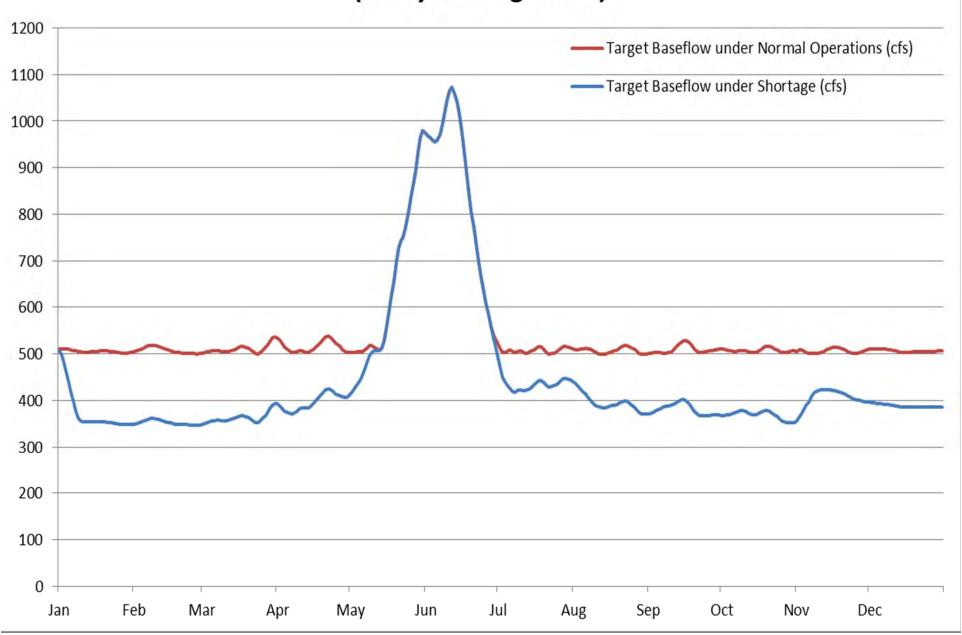
2014 Shortage Forecast under MINIMUM Probable Conditions

Minimum Target Elevation	5990 ft (661,800 af)
Minimum Forecast Elevation	5958 ft (457,210 af)
Date to reach 5990 af	August 3, 2014
Date to reach Min Forecast Elevation	February 14, 2015
Forecast Volume Deficit	204,590 af
Normal User Demand	597,515 af
FORECAST SHORTAGE* (deficit/demand)	34.4% (In Effect Jan 1 2014 – Dec 31 2014)

^{*} Applied to endorsing parties of the shortage sharing agreement for 2013-2016

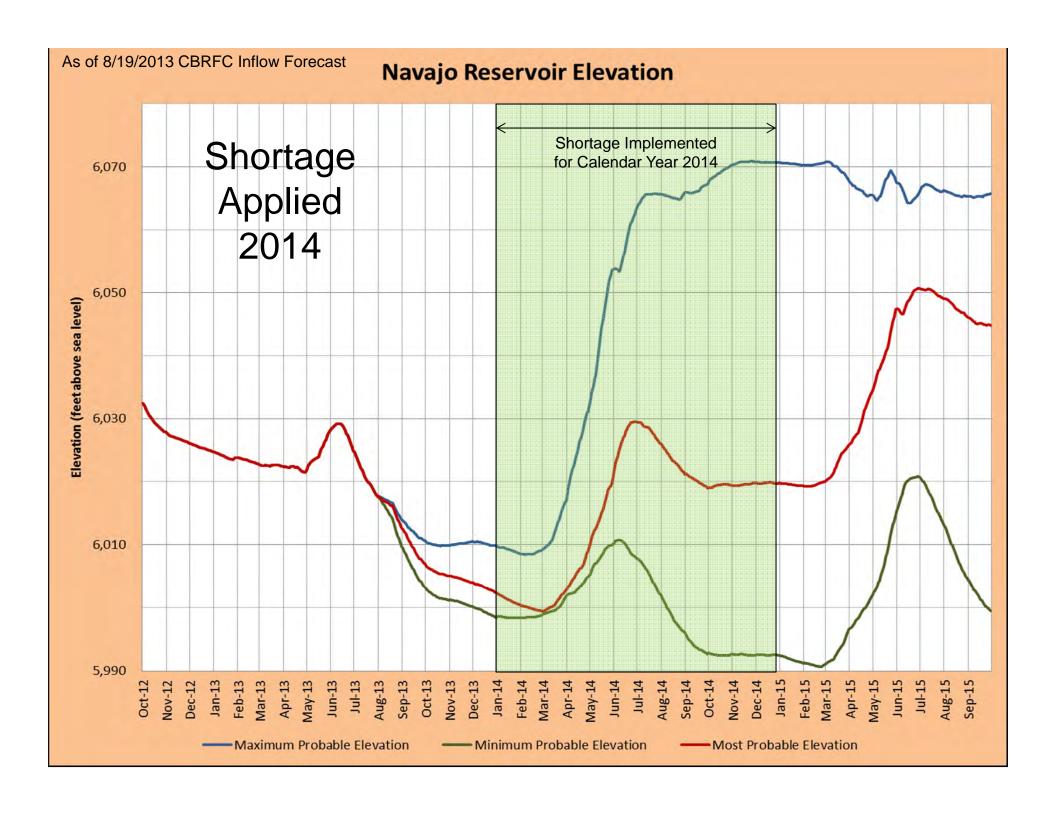


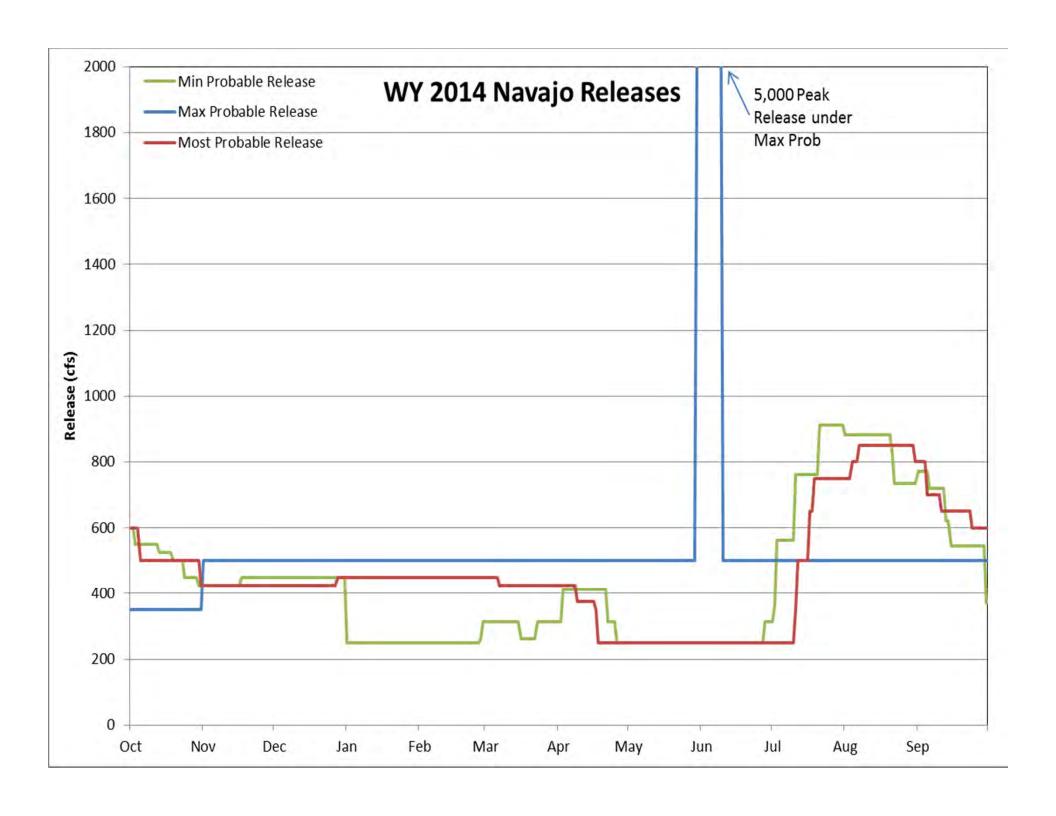
2014 Minimum Probable Target Baseflow (7-day moving mean)

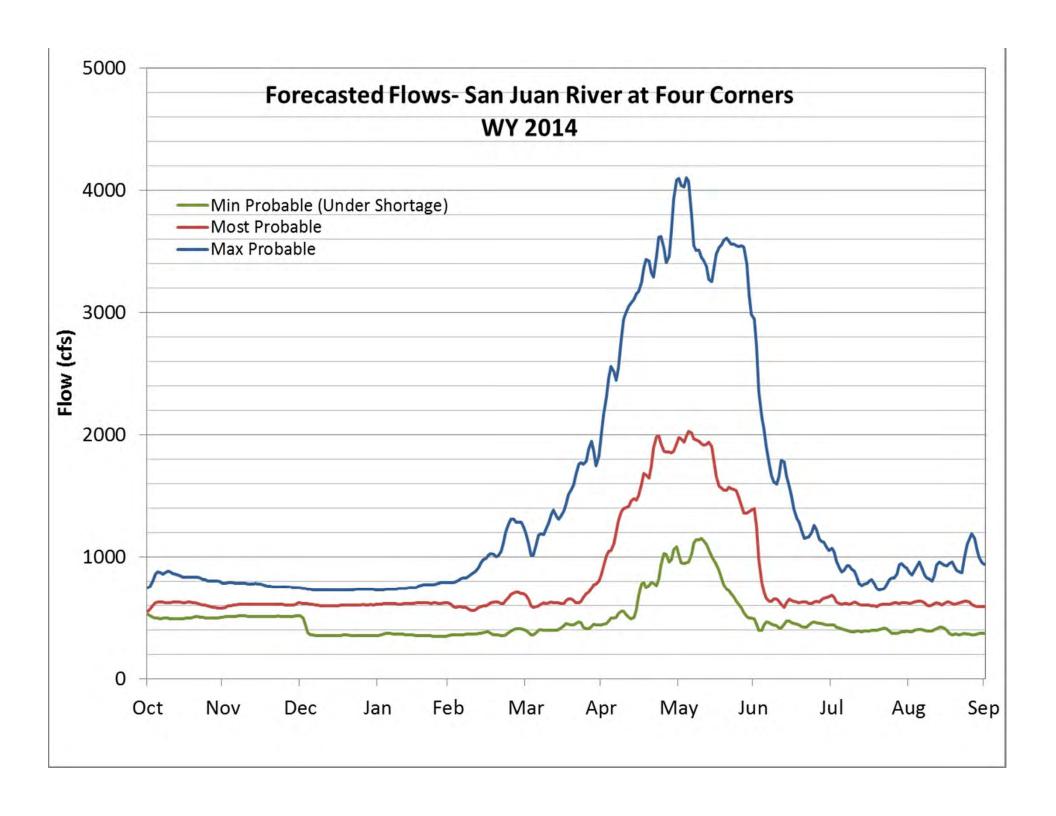


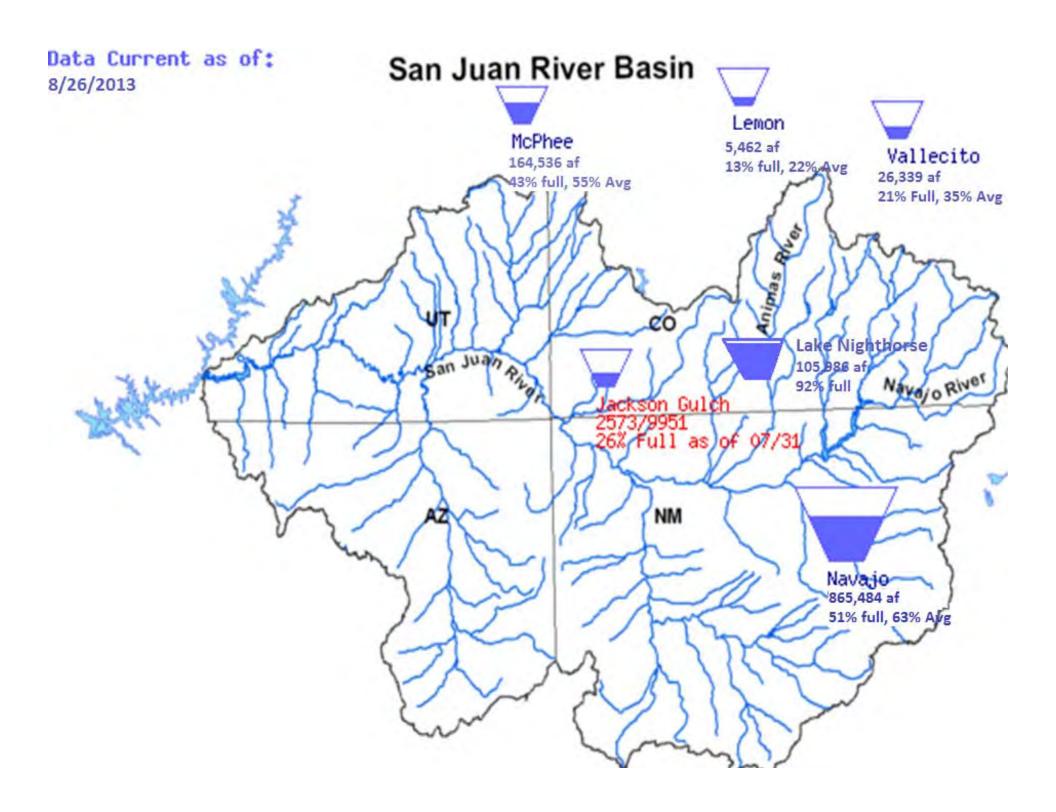
Implementation Constraints

- 250 cfs minimum release (ROD)
- Target Base Flow of 350 cfs for no more than 50 days, of which no more than 40 days may be under 300 cfs, with a minimum of 250 cfs (from shortage sharing agreement for 2013-2016)









Nighthorse

- Elevation = 6875.8
- Storage = 105,986 af (92% Full)
- Release = 0 cfs
- Pumping = 0 cfs

Vallecito

- Elevation = 7617.9
- Storage = 26,339 af (21% Full, 35% of average)
- Release = 195 cfs
- Inflow = 553 cfs
- April-July Inflow = 91,000 AF (47% avg)

Lemon

- Elevation = 8060.4
- Storage = 5,462 af (13% Full, 22% of average)
- Release = 26 cfs
- Inflow = 109 cfs
- April-July Inflow = 23,000 AF (42% avg)

Navajo Maintenance Activities

- Right groin rehabilitation including toe drain system (spring)
- 30" Hollow-Jet and Ring Follower Rebuild
- Ditch maintenance (State)
- Weed spraying in fall
- Replacing roof of shop building
- Instrumentation update for early warning system within dam

- Biology Committee Meeting Nov 19-20 at Durango Public Lands Center
- Remote PIT tag reader installation
 - Mexican Hat: Week of November 11
 - PNM site: Week of December 2
- Annual river-wide fish community monitoring and stocking of razorback sucker from NAPI ponds and Colorado pikeminnow and razorback sucker from FWS hatcheries occurring this fall

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

- WY2013 had below average snowpack for most of the year
- WY2013 April July Inflow was 36% of average (267K af)
- No Spring Peak Release was conducted
- None of the SJRIP flow goals were met
- Minimum Release = 250 cfs, Current Release = 500 cfs
- Release greater than 500 cfs can be expected to meet target base flows, but target base flows may be reduced beginning this fall or winter in coordination with SJRIP.
- Most Probable Oct 1 2014 reservoir elevation is 6019 ft
- A 34% shortage is forecast for 2014 under most recent Minimum Probable Forecast
- Most Probable hydrologic forecast for 2014 is below-average.
- A spring peak release is unlikely for 2014.
- ESP Forecast for WY2013 shows a wide variance- better idea of WY2013 conditions next meeting

Next Operations Meeting: Tuesday, January 21, 2014