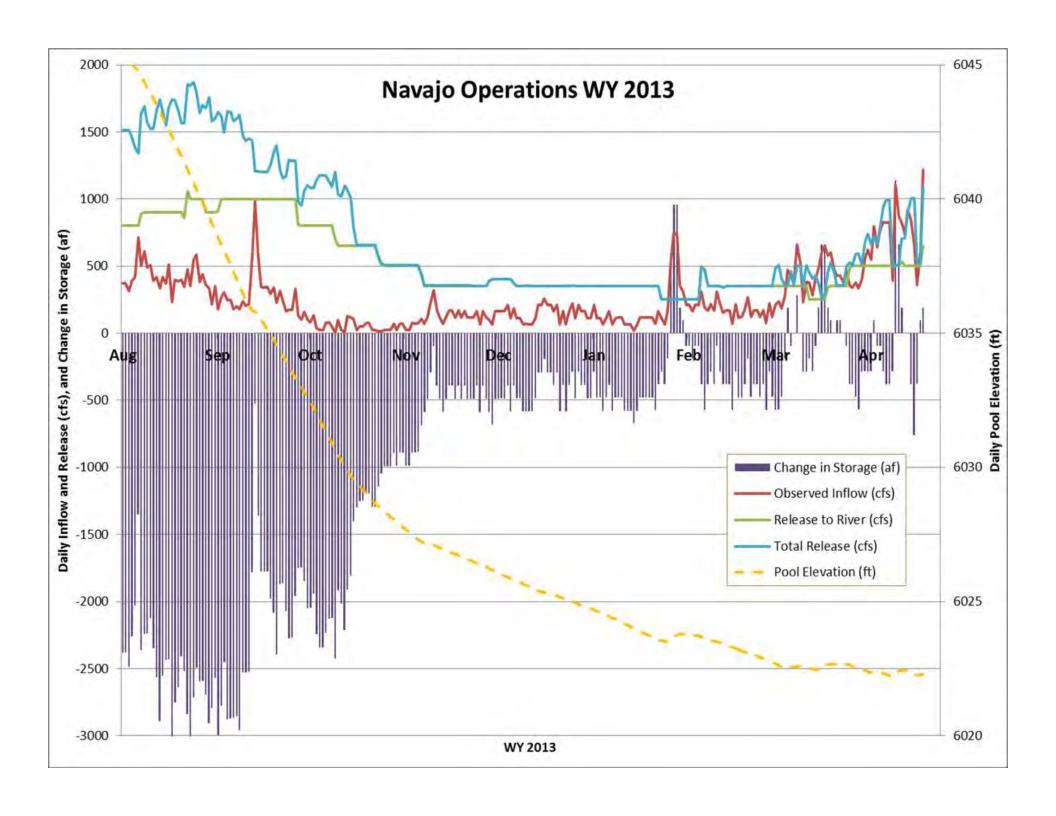
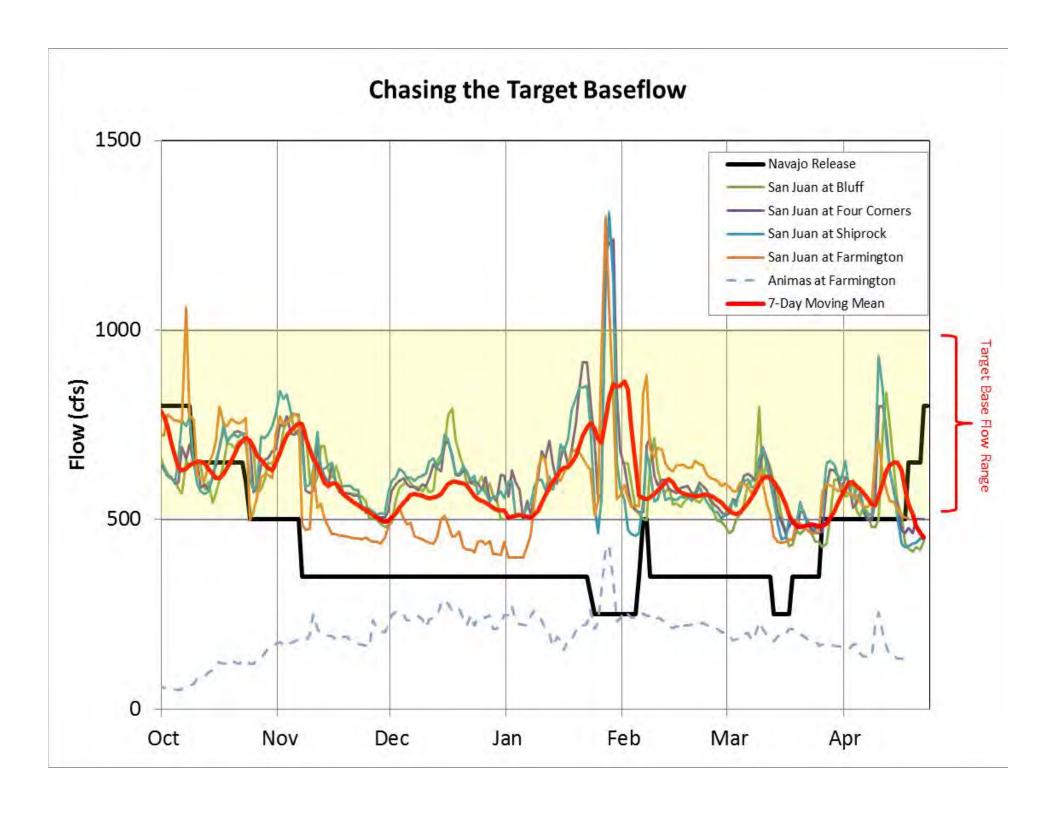
# RECLAMATION

Managing Water in the West



U.S. Department of the Interior Bureau of Reclamation





# Navajo Current Conditions

(as of 4/22/13)

Elevation = 6022 (74% of Average)

Storage = 929,228 af (55% Full)

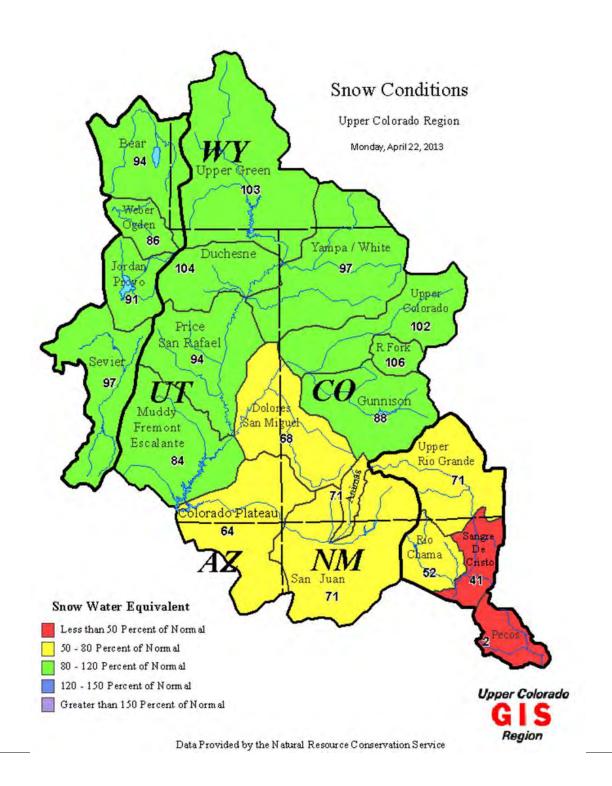
 $Inflow = 699 cfs^*$ 

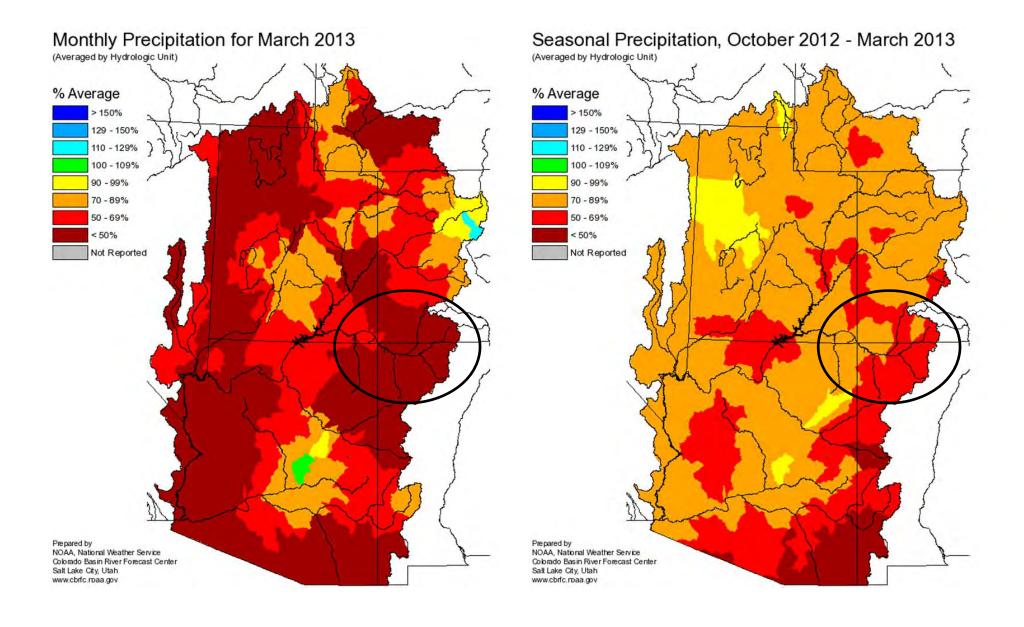
Release = 800 cfs

NIIP = 618 cfs

SJ-Chama Diversion = 195 cfs

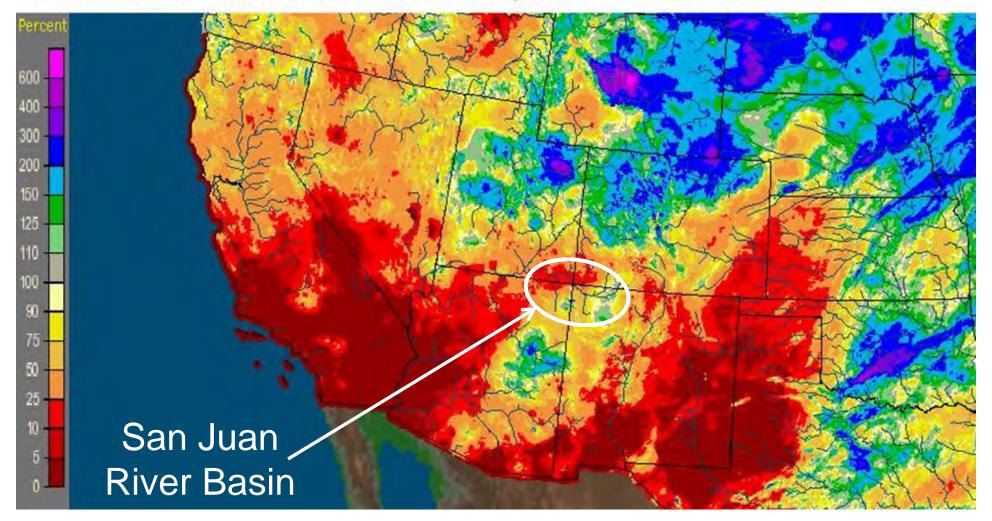
<sup>\*</sup>Average of the last 7 days





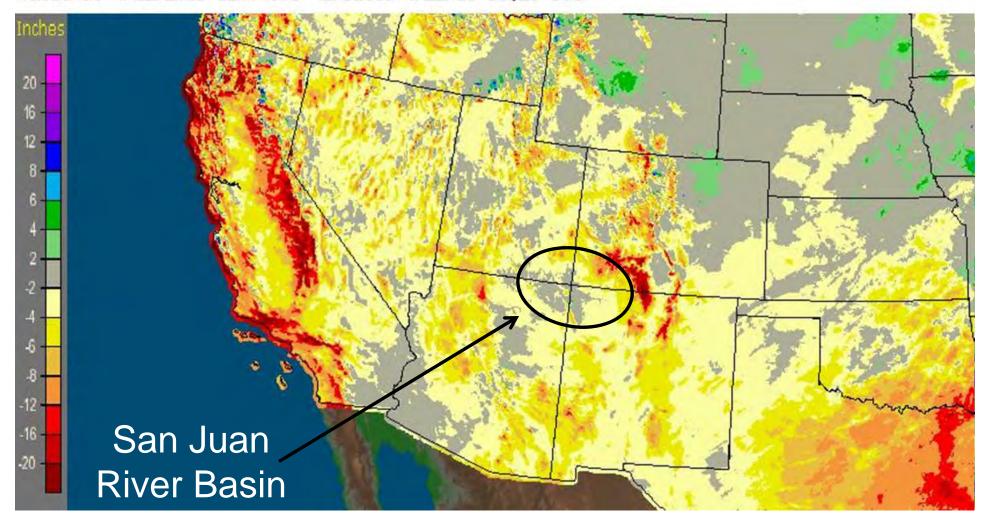
## % of Average Precipitation for April through 4/22

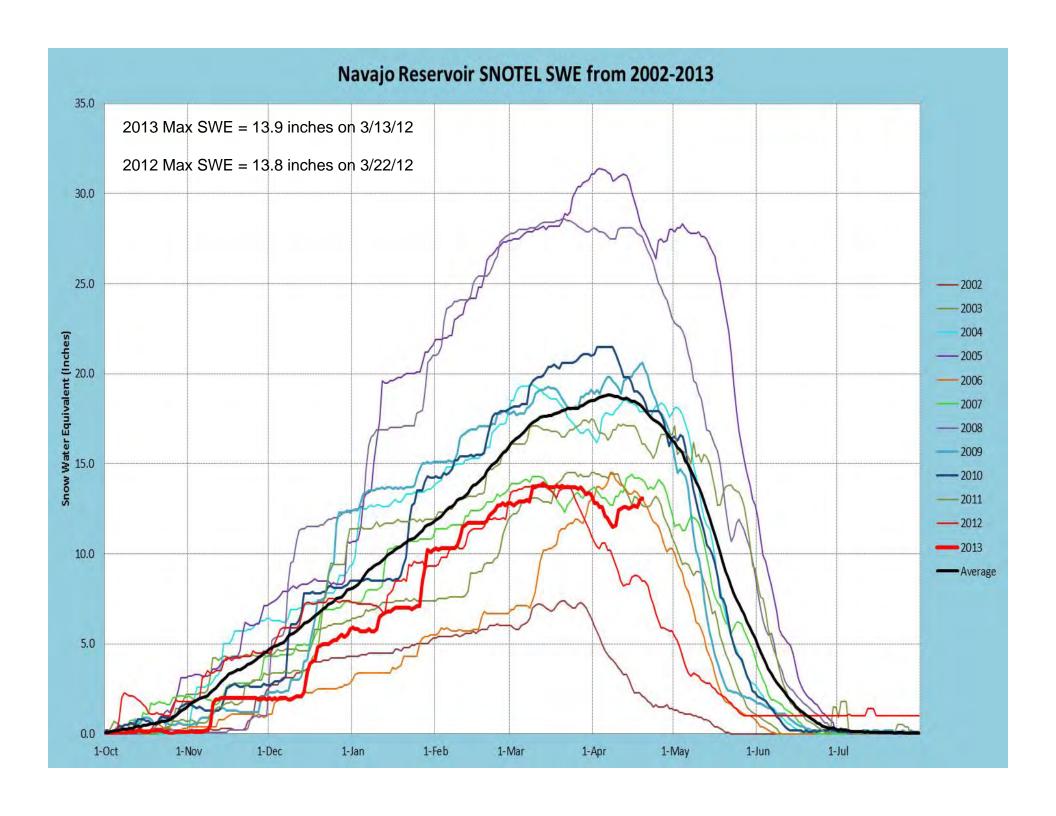
Colorado Basin RFC Salt Lake City, UT: Current Month to Date Percent of Normal Precipitation Valid at 4/22/2013 1200 UTC- Created 4/22/13 18:06 UTC



## WY 2013 Departure from Normal Precipitation

Colorado Basin RFC Salt Lake City, UT: Current Water-Year (Oct 1) Departure from Normal Prec Valid at 4/22/2013 1200 UTC- Created 4/22/13 18:29 UTC





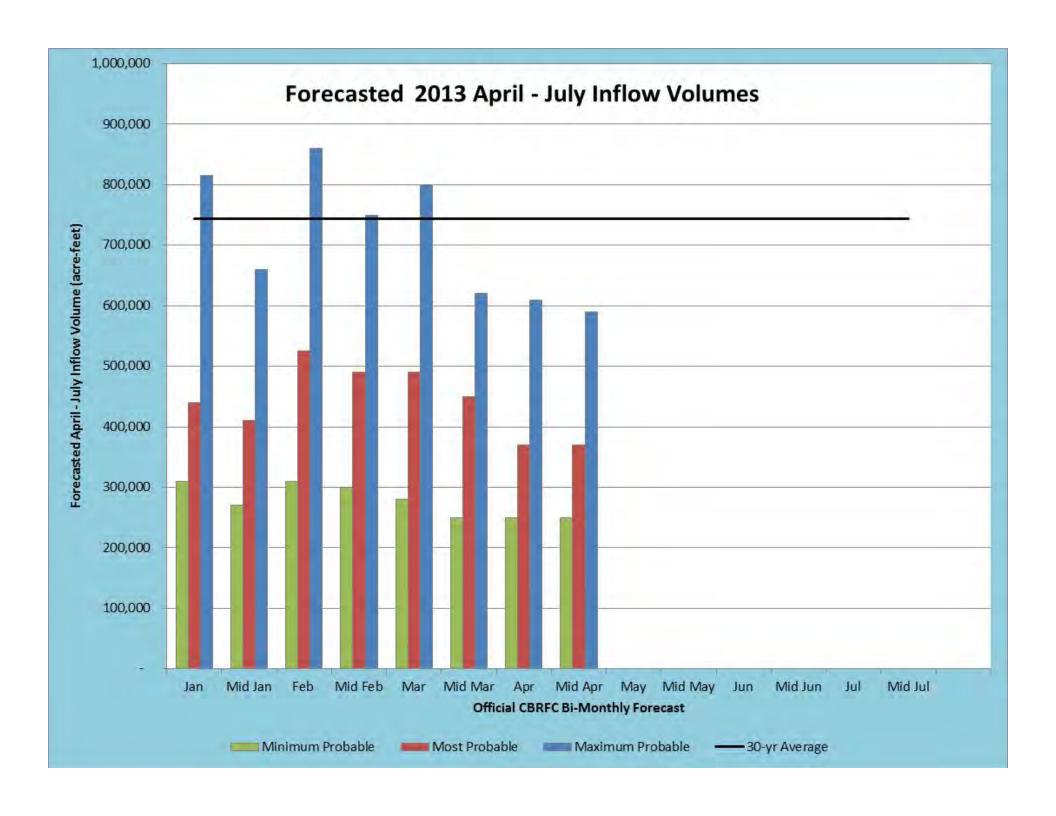
## **Observed Navajo Inflow & Snowpack**

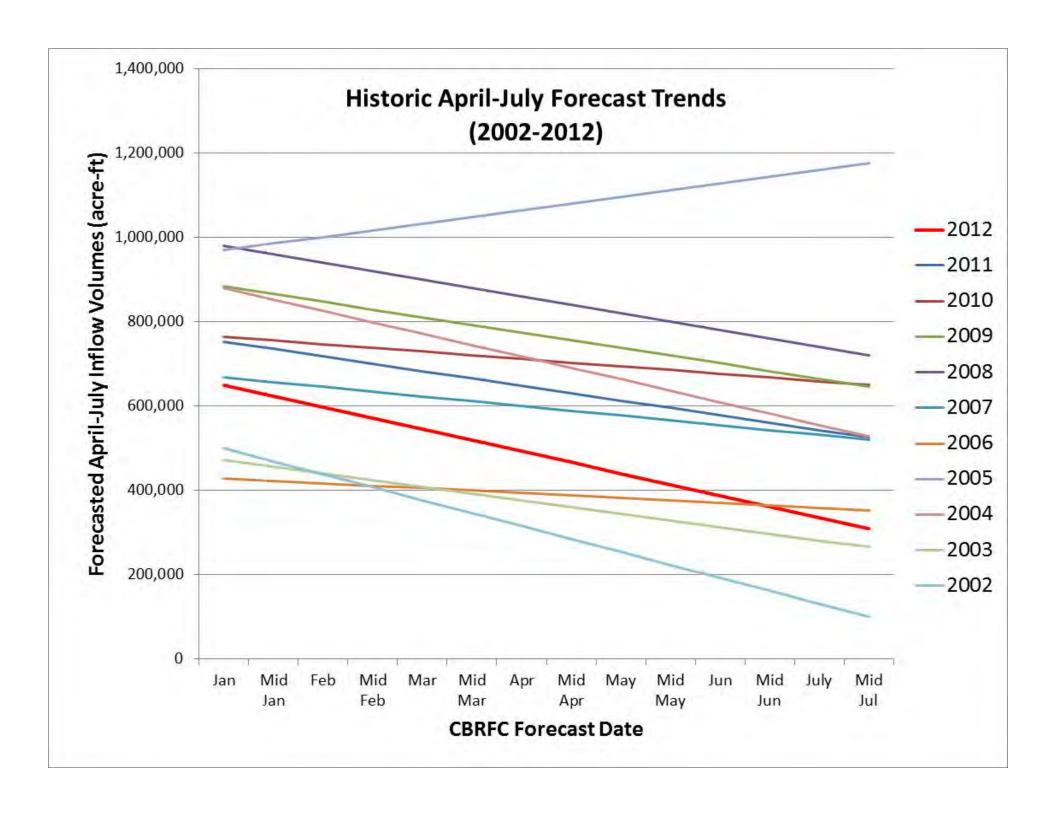
End of Month	Observed Inflow (af)	% Average	SWE (in.)	% Average
October	3,262	7%	0.1	7%
November	7,283	22%	1.9	40%
December	3,039	48%	5.8	69%
January	3,344	62%	10.2	85%
February	9,917	35%	12.8	80%
March	4,186	61%	13.3	69%

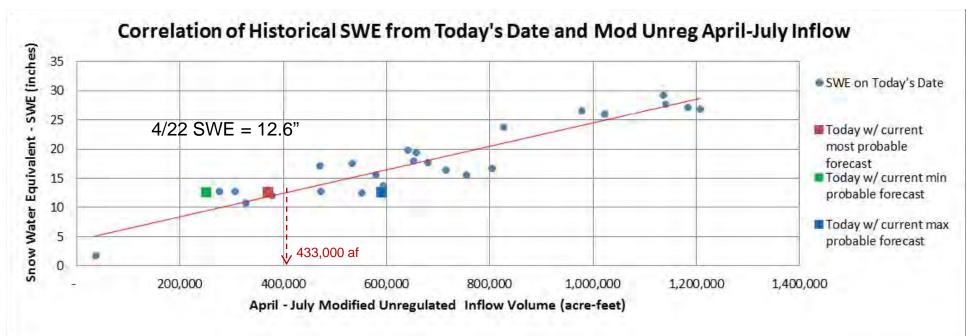
# Mid-April 2013 CBRFC Forecast Navajo Reservoir Mod Unregulated April-July Inflow Volume

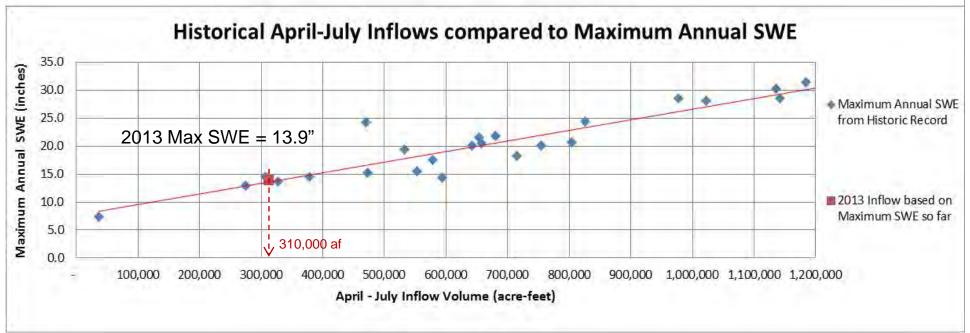
Probability	Inflow (af)	% of Average	2012 Forecast
MOST	370,000	50%	420,000 (56%)
MIN	250,000	34%	244,000 (33%)
MAX	590,000	79%	600,000 (81%)

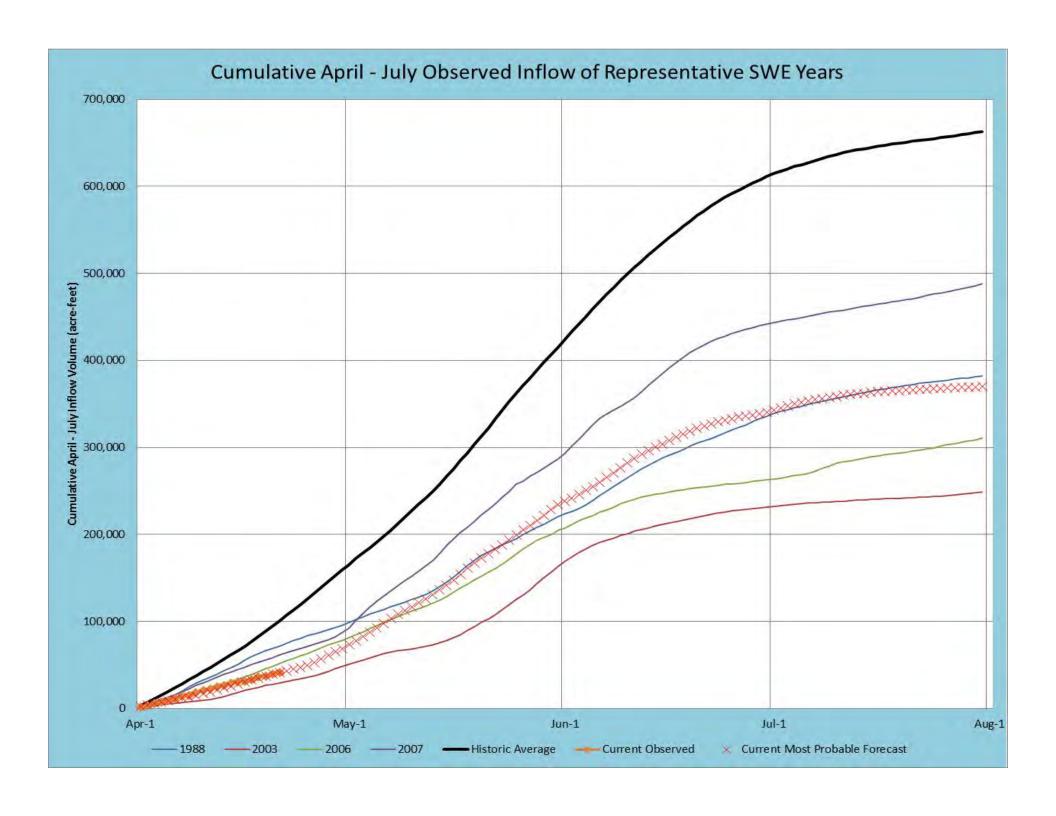
2012 Actual = 310,000 acre-feet

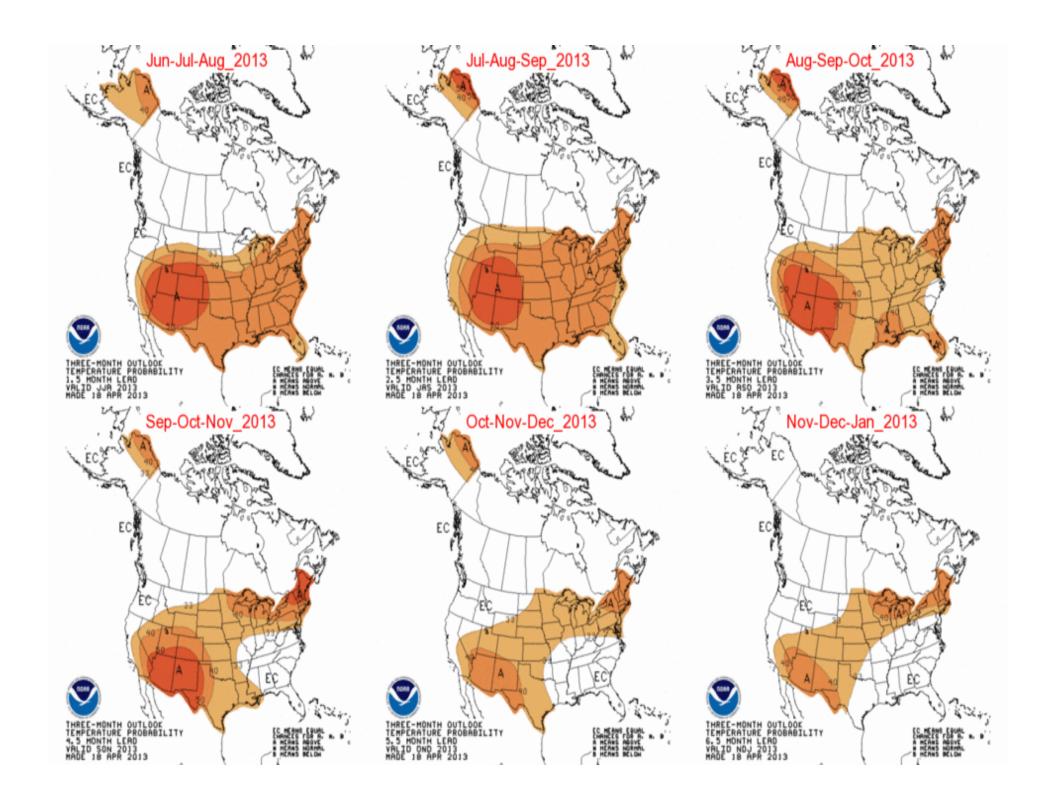


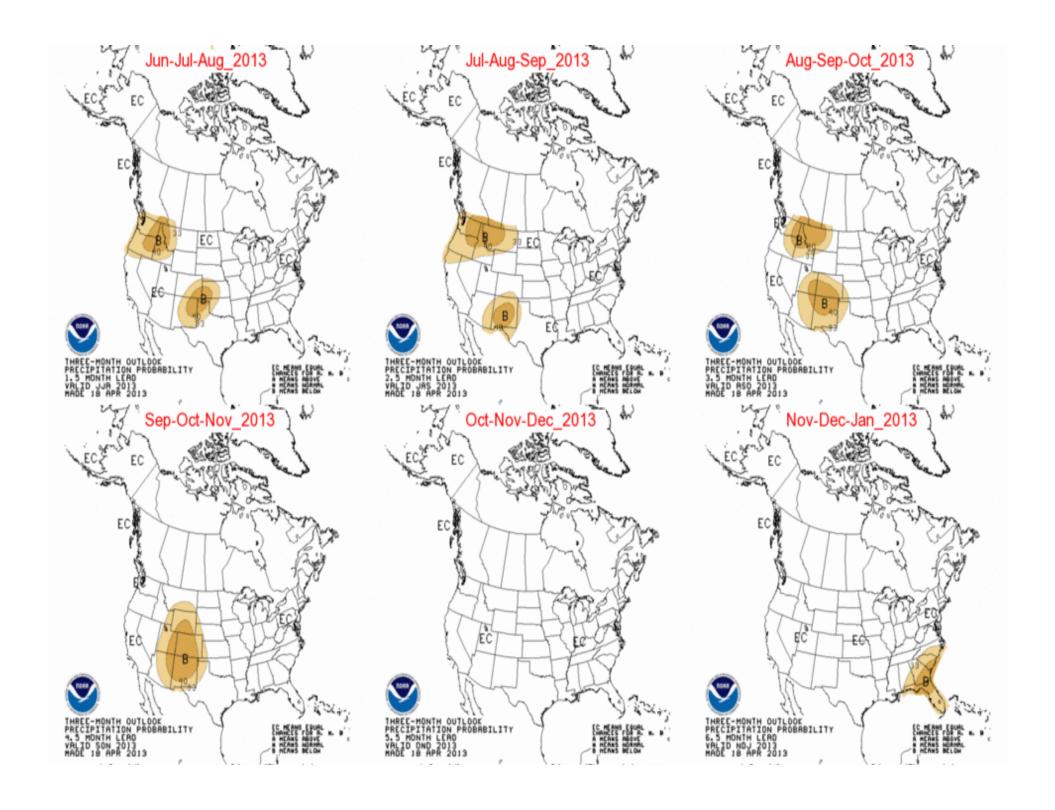








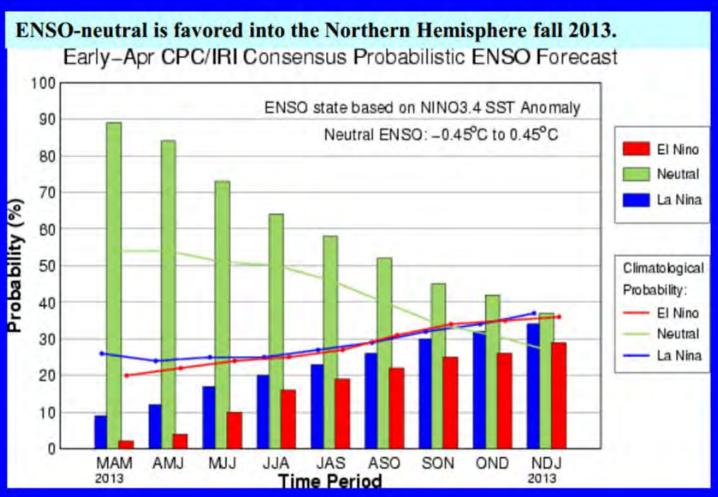






## **CPC/IRI Probabilistic ENSO Outlook**

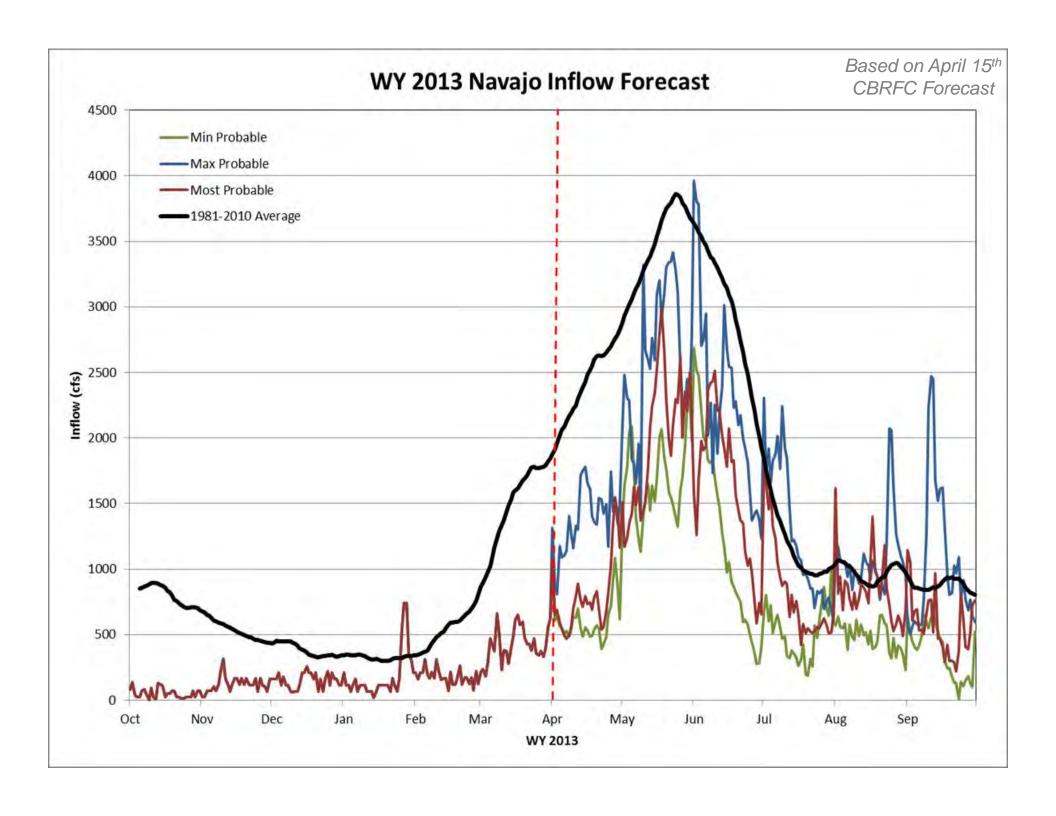
(updated 4 April 2013)

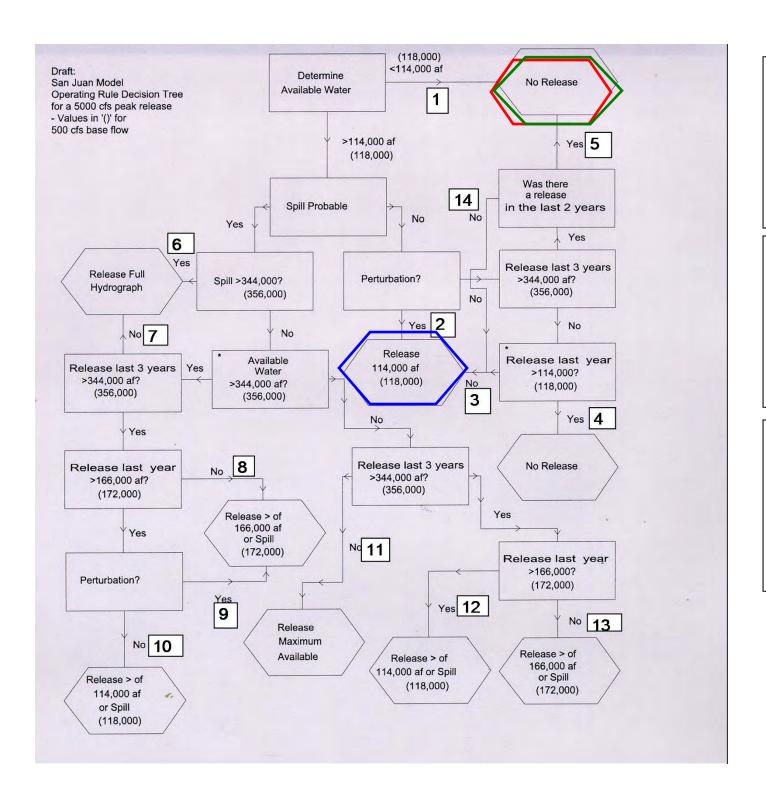


# 2013 Spring Peak Release

Probability	Available Water	Release
Min	(102,000) af	none
Most	(13,000) af	none
Max	150,000 af	1 week at 5,000 cfs

The Most Probable forecast would need to increase by 90,000 acre-ft to be considered for a spring peak release.





### MIN PROBABLE

(102,000) af

**PATH #1** 

## MOST PROBABLE

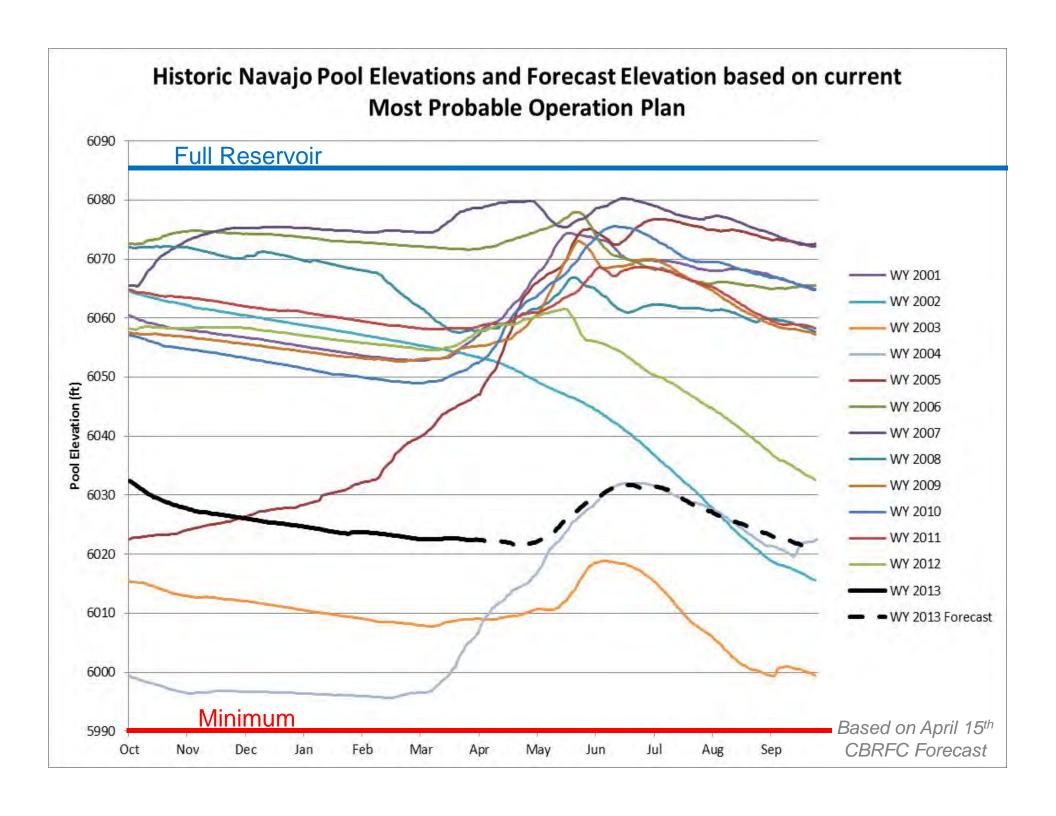
(13,000) af

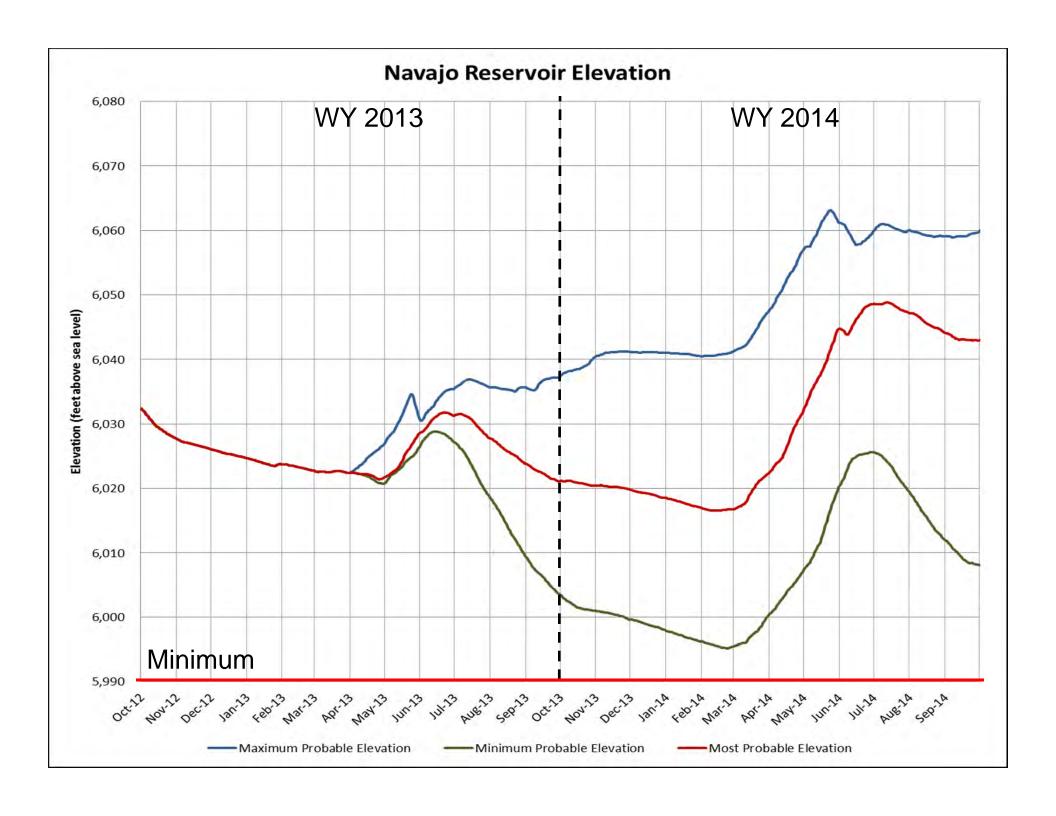
**PATH #1** 

### MAX PROBABLE

150,000 af

PATH #3





## WHAT IS A SHORTAGE?

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 release of 350 cfs



2. Use minimum release of 250 cfs



4. Shortage Sharing Begins

## **CBRFC PEAK FLOW FORECASTS**

San Juan - Bluff- Nr BFFU1

Mean Daily Forecast

90%: 1800 cfs

75%: 2000 cfs

50%: 2400 cfs

25%: 3000 cfs

10%: 3800 cfs

Instantaneous Forecast

90%: 2700 cfs

75%: 2900 cfs

50%: 3300 cfs

25%: 3900 cfs

10%: 4700 cfs

Flood: 33838 cfs

Hist Peak: 15200 cfs

Issue Date: 2013-04-16

Animas - Durango DRGC2

Mean Daily Forecast

90%: 1500 cfs

75%: 1700 cfs

50%: 2100 cfs

25%: 2500 cfs

10%: 3100 cfs

Instantaneous Forecast

90%: 1700 cfs

75%: 1900 cfs

50%: 2300 cfs

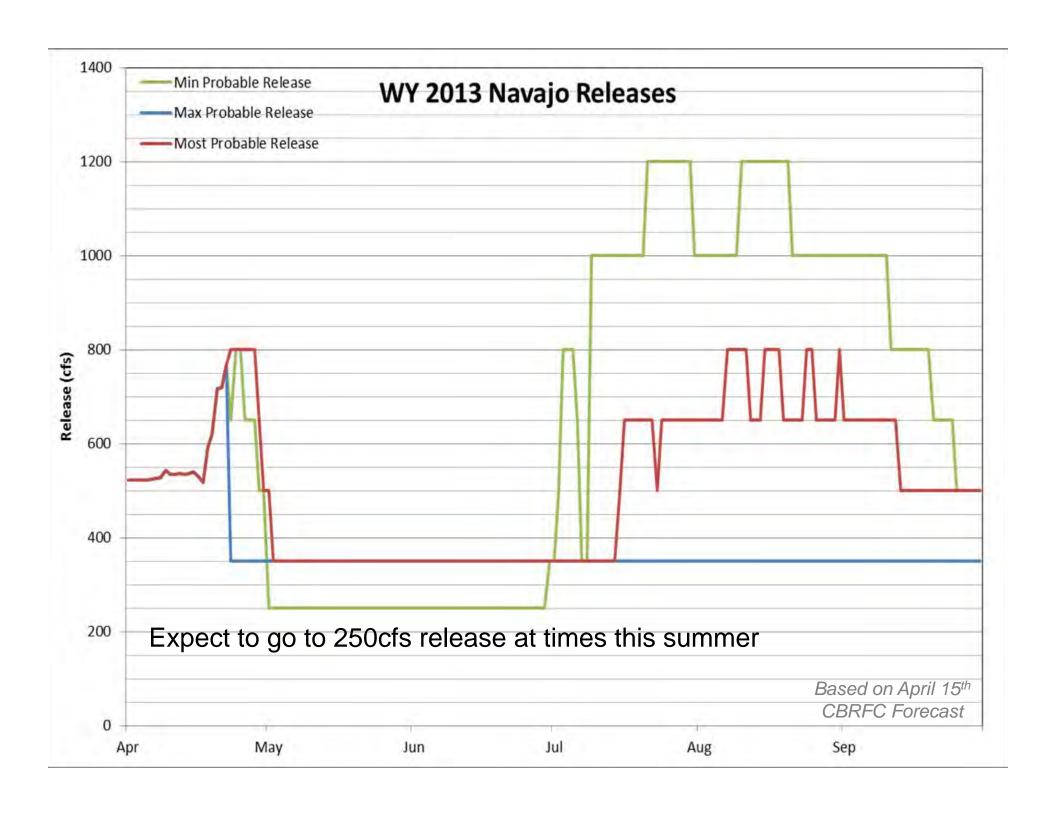
25%: 2800 cfs

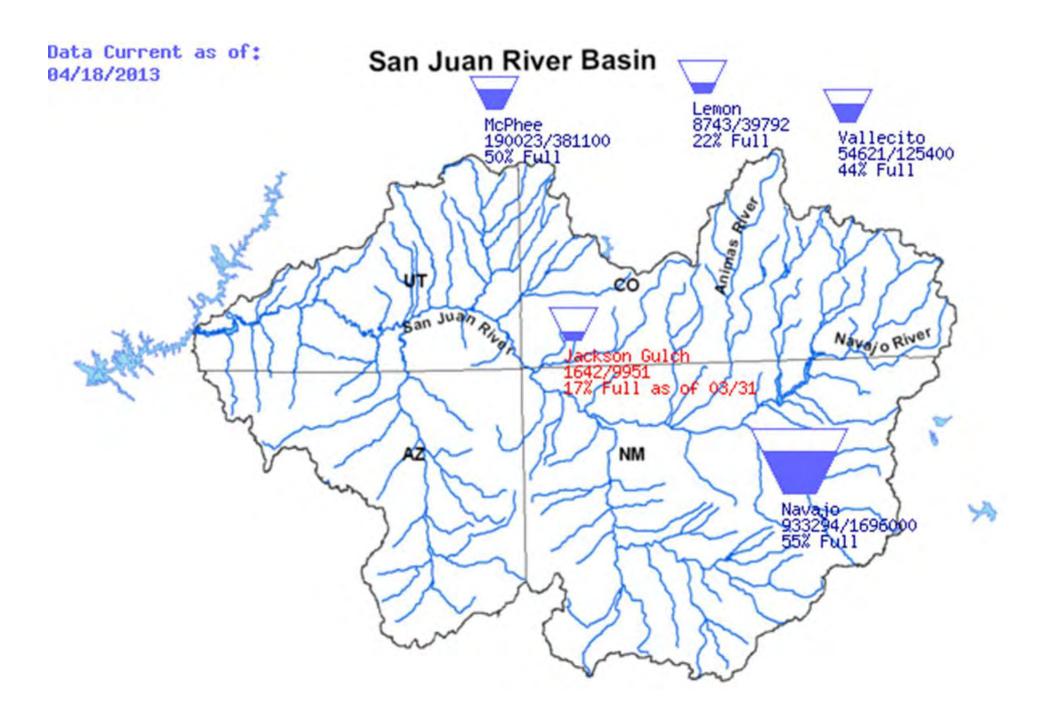
10%: 3400 cfs

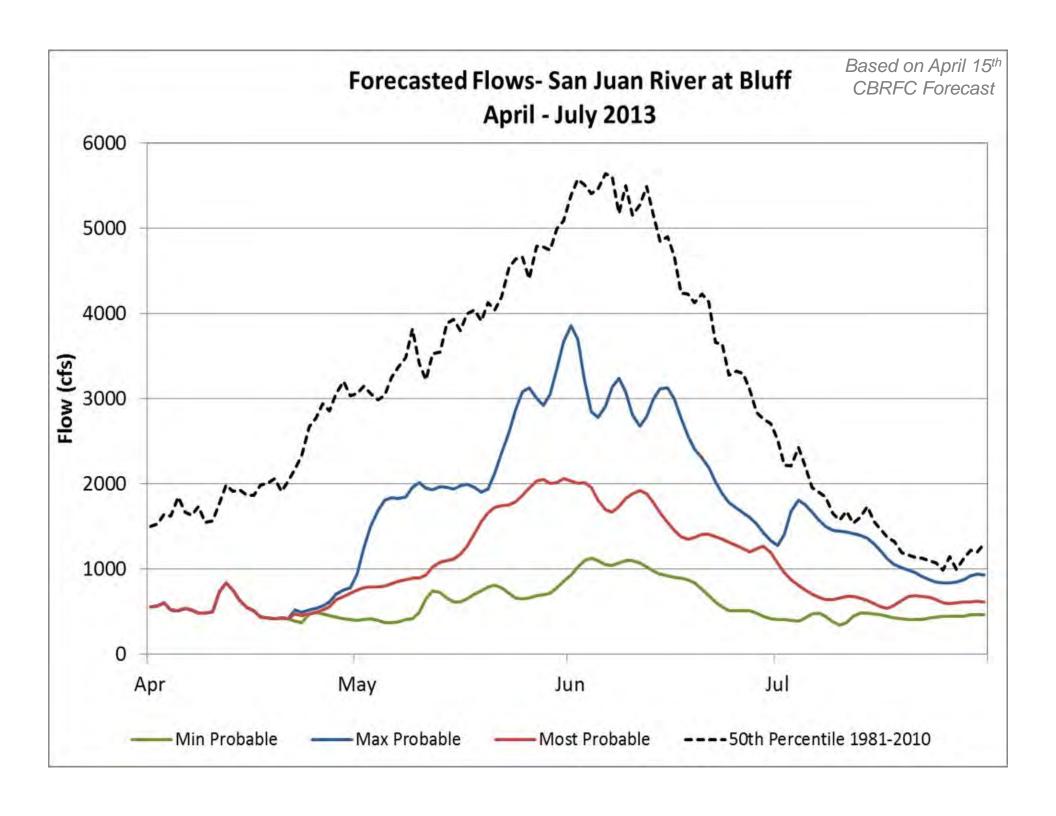
Flood: 9560 cfs

Hist Peak: 10700 cfs

Issue Date: 2013-04-16







## **Nighthorse**

- Elevation = 6877 (94% Full)
- Storage = 107,745 af
- Release = 0 cfs
- Pumping = 0 cfs

## **Vallecito**

- Elevation = 7636 (44% Full, 94% of average)
- Storage = 55,171 af
- Release = 9 cfs
- Inflow = 162 cfs
- April-July Most Prob Inflow Forecast = 110,000 AF (56% avg)

## Lemon

- Elevation = 8077 (22% Full, 41% of average)
- Storage = 8,855 af
- Release = 6 cfs
- Inflow = 29 cfs
- April-July Most Prob Inflow Forecast = 32,000 AF (59% avg)

# Maintenance Activities

Work on Navajo unit buildings, parking lot

Toe drain repair on right groin this fall

# Upcoming Meetings of Importance

- SJRIP Biology Committee Meeting 5/7 at Public Lands Building Durango
- SJRIP Annual Meeting (public) 5/8 at Fort Lewis College
- SJRIP Coordination Committee Meeting 5/9 at the Doubletree Durango

# How You Can Access Information

Bureau of Reclamation www.usbr.gov/uc



http://water.usgs.gov/nwis

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



## **Reclamation Contacts:**

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# Summary

- Precipitation has been well below average for most of the winter and into spring in the San Juan River Basin. Cooler temperatures have prevented the early runoff we saw last year.
- Most Probable April—July Inflow Forecast is 50% of average.
- There will likely be no Spring Peak Release.
- Minimum Base release will be 250 cfs
- Shortage is not currently forecasted but preventative measures are being taken.
- Downstream flows in the San Juan River are likely to be below average.
- Increased releases may be necessary to meet Target Base Flows.
- Similar snowpack and inflow conditions to last year at this time of year, but with drier soil conditions and low reservoirs.
- Next Operations Meeting August 27, 2013