RECLAMATION

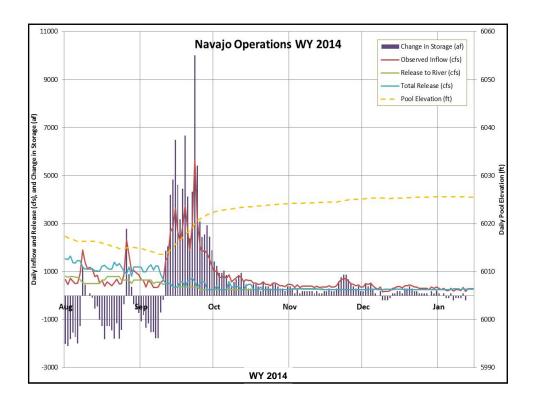
Managing Water in the West

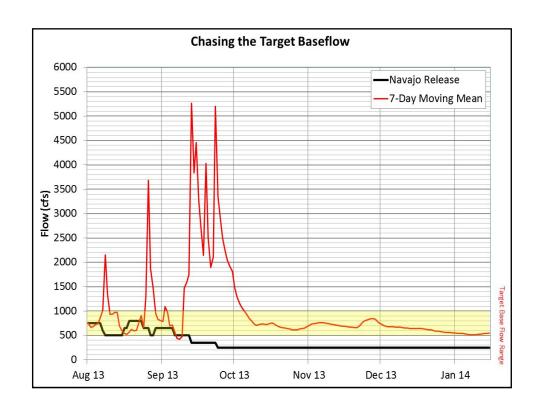


U.S. Department of the Interior Bureau of Reclamation

AGENDA

- •Review of operations since last meeting (Aug 2013)
- •Current soil and snowpack conditions
- Current reservoir status
- •Water Year 2014 Forecasts and Proposed Operations
- Navajo Dam Maintenance Activities
- Nearby Projects Update
- •Reports from Other Agencies



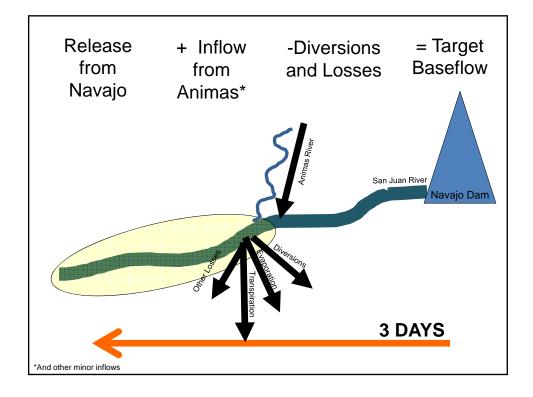


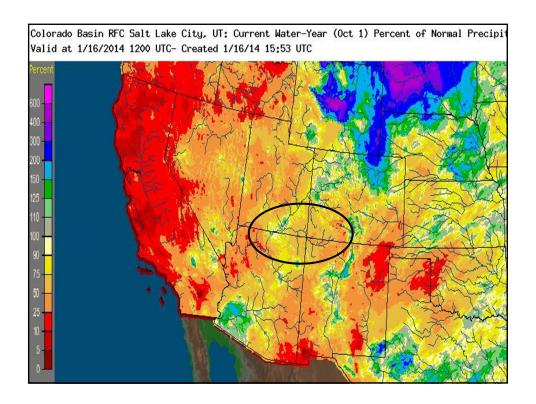
Release vs. Target Baseflow

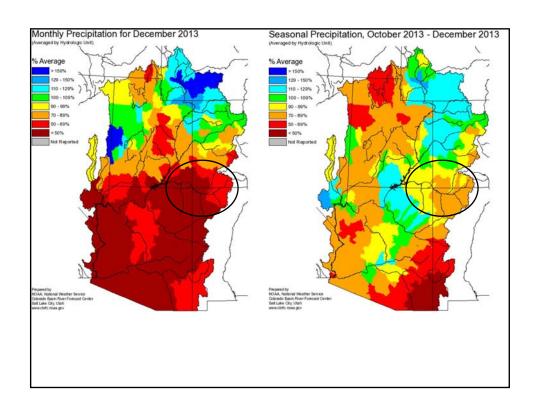
Release is directly from the outlet works of the dam.

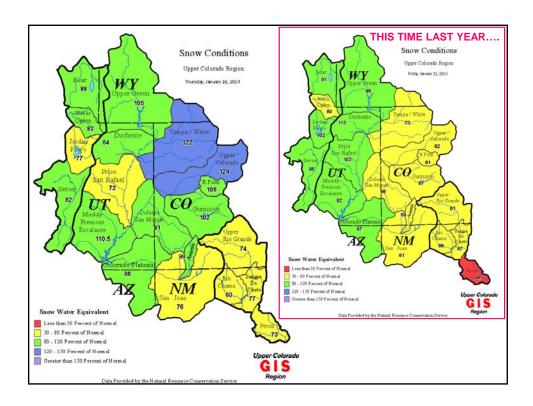
<u>Baseflow</u> is the weekly average flow of the San Juan River from Farmington to Lake Powell. It includes the release from Navajo, as well as the inflow from the Animas.

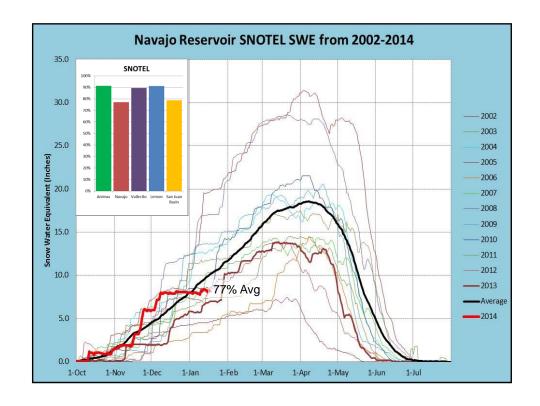
Our <u>Target Baseflow</u> is 500 -1000 cfs (SJRIP Flow Recommendations, 1999)

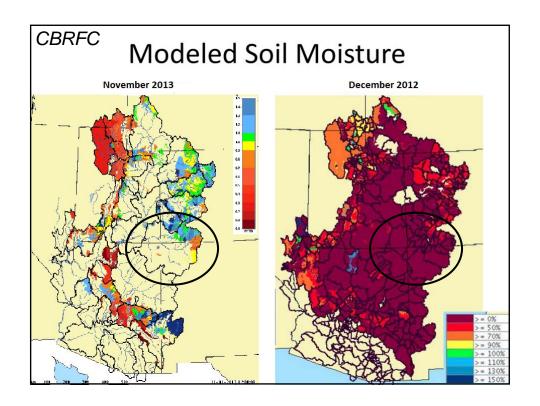


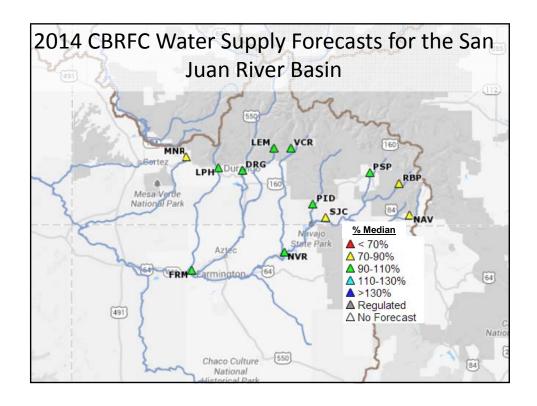








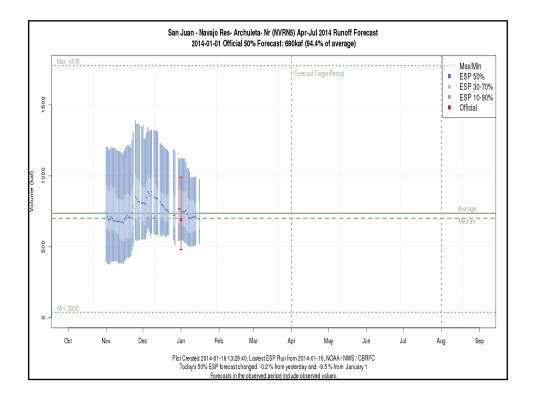


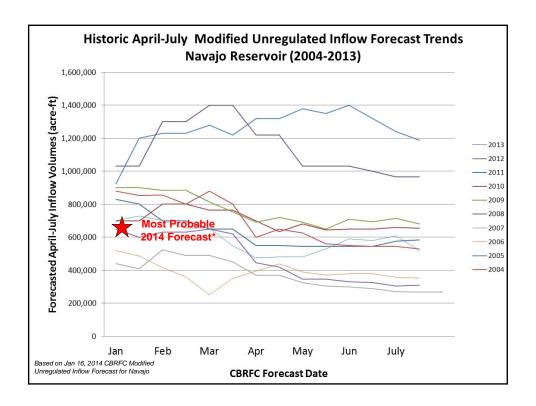


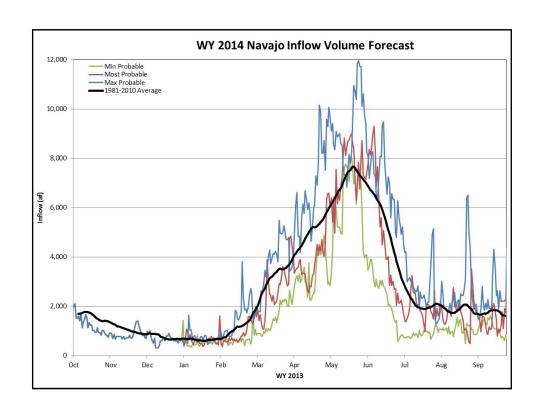
2014 CBRFC Forecasts

Issued Jan 16, 201

Navajo Reservoir	Modified Unregulated Inflow Forecast (acre-ft) (percent of average)			
	Jan	Feb	Mar	A-J
Min	20,000	20,000	47,000	440,000
	91%	66%	51%	60%
Most	23,000	26,000	80,000	650,000
	105%	86%	87%	88%
Max	26,000	47,000	130,000	930,000
	119%	155%	141%	126%







El Niño/La Niña current status and forecast models

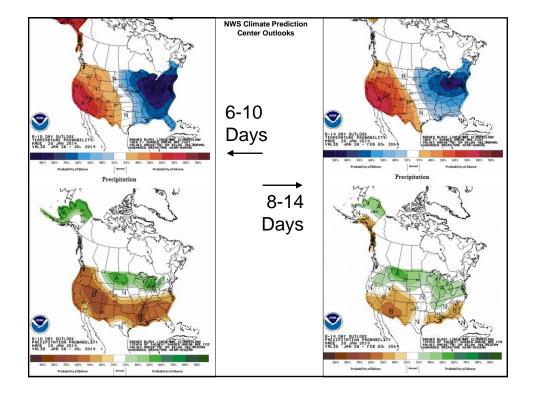


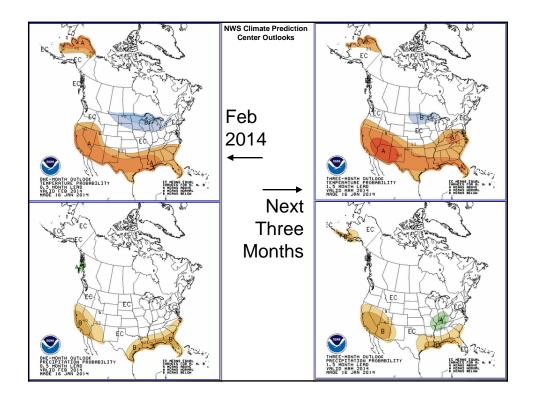
Summary

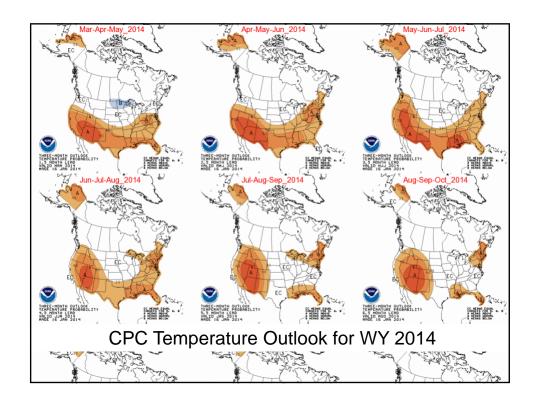
ENSO Alert System Status: Not Active

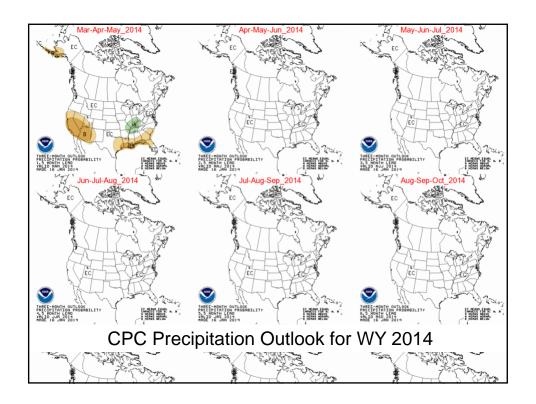
- ENSO-neutral conditions continue.*
- Equatorial sea surface temperatures (SST) are near average across much of the Pacific Ocean.
- ENSO-neutral is expected to continue into the Northern Hemisphere summer 2014.*

* Note: These statements are updated once a month in association with the ENSO Diagnostics Discussion http://www.cpc.ncep.noaa.gov/products/analysis monitoring/enso advisory









Navajo Current Conditions

(as of 1/20/14)

Elevation = 6025.53 ft

Storage = 964,376 af (57% Full, 29% Active, 76% of Avg)

Inflow = 280 cfs

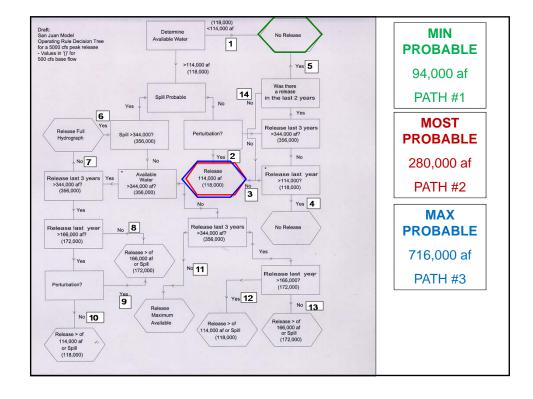
Release = 250 cfs

NIIP = 0 cfs

San Juan-Chama Diversion = 0 cfs

WATER YEAR 2014 PROPOSED OPERATIONS SUMMARY

- WATER SAVING MODE
- Spring peak release is possible but unlikely.
- Minimum release will be 250 cfs



2014 Spring Peak Release

(Based on current forecast and the SJRIP Flow Recommendations)

Most Probable

Water Available = 280,000 af

Peak Release = 1-week release at 5,000 cfs

Minimum Probable

Water Available = 94,000 af

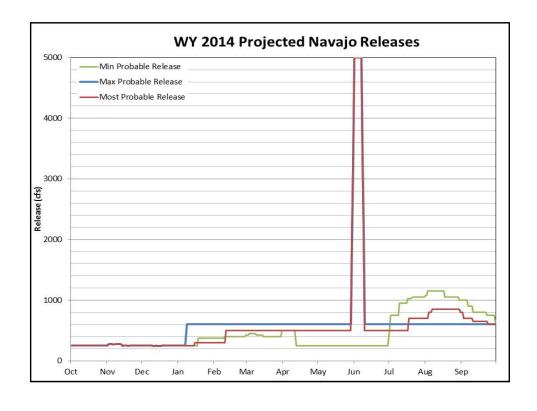
Peak Release = No Release

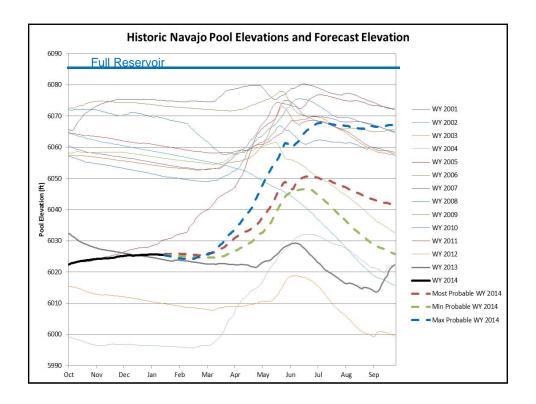
Maximum Probable

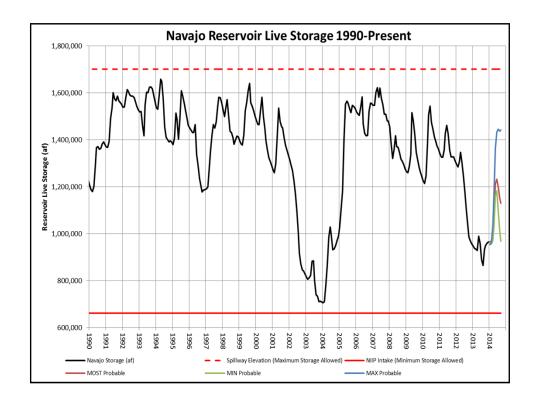
Water Available = 716,000 af

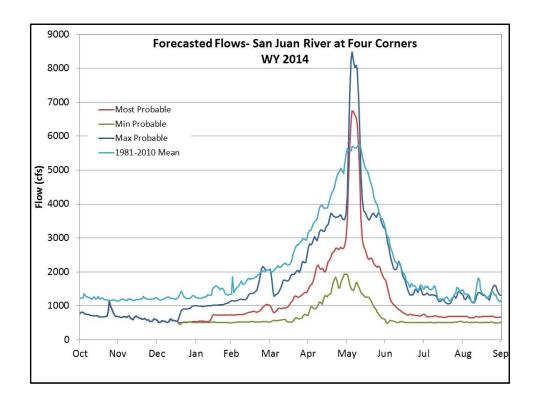
Peak Release = 1-week release at 5,000 cfs

Base release of 250 - 500 cfs for remainder of water year





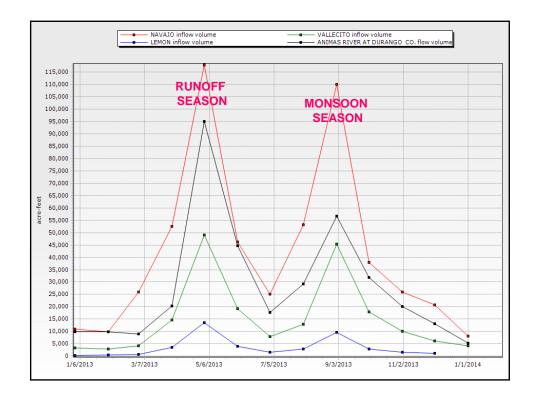




Update on Shortage Sharing

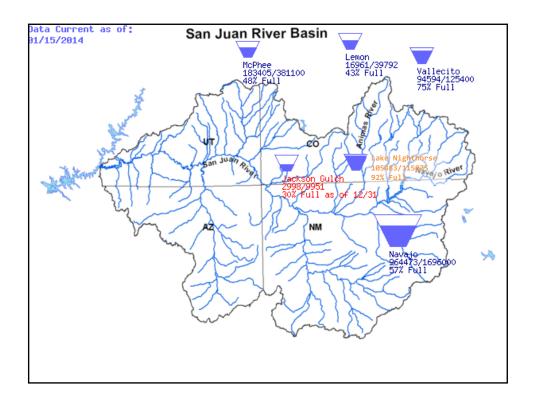
Last meeting we were forecasting a potential shortage in the San Juan River Basin. What happened?

- Monsoon season of 2013
- Water savings at NIIP
- Tight operations at Navajo all through 2013
- Low releases from Navajo (250 cfs) since September
- Voluntary reductions and awareness



Comparison to Conditions this time last year

- Reservoir Elevations are higher (although still the lowest they've been since 2003)
- SNOTEL sites are higher (though still below-average)
- Soil Moisture is higher
- Inflow Forecasts are higher (though still below-average)
- Public Awareness is higher



Major San Juan River Basin Reservoirs (1/20/2014)

Nighthorse

- Elevation = 6875.45
- Storage = 105,498 af (92% full)
- Release = 0 cfs
- Pumping = 0 cfs

Vallecito

- Elevation = 7653.16 ft
- Storage = 94,669 af (75% full, 178% avg)
- Release = 76 cfs
- Inflow = 178 cfs

Lemon

- Elevation = 8103.29 ft
- Storage = 16,980 af (43% full, 86% avg)
- Release = 11 cfs
- Inflow = 13 cfs

Lake Nighthorse is scheduled to be topped off May-June of this year

Vallecito's new ice-preventing bubbler system is allowing higher storage levels than in previous winters.

Navajo Maintenance Activities

- Right abutment rehabilitation will begin next fall.
- Rehab of hydraulic system and ring followers of 30" hollow jet valve

How You Can Access Information

Bureau of Reclamation www.usbr.gov/uc



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



Bureau of Reclamation: Navajo Operations Coordination Meeting

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Summary

- The current snowpack is below average.
- CPC outlook indicates greater chance of below average precipitation.
- Most Probable April July Inflow Forecast is 88% of average.
- Based on the most probable forecast, a 1-week spring peak release is possible, although this outcome is unlikely.
- Downstream river flows are anticipated to be at or below average.
- Base will continue to be the minimum necessary to maintain environmental commitments (down to the minimum release of 250 cfs) to conserve water.
- Shortage sharing is not currently forecasted, but conservation measures may be implemented to avoid a shortage.

Next Operations Meeting: Tuesday, April 22nd 2014