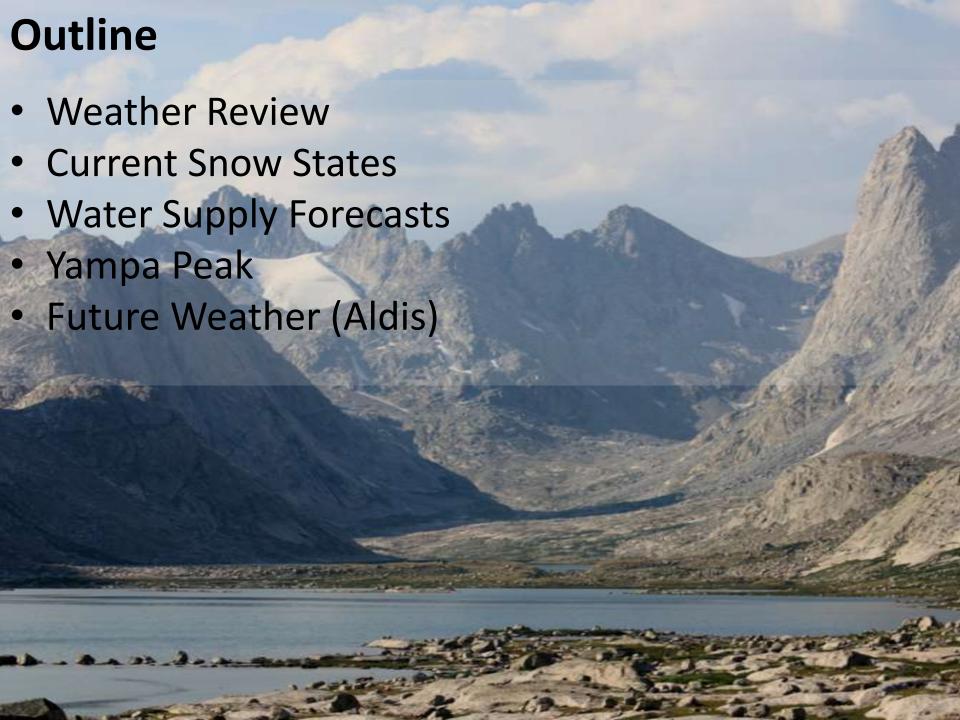
CBRFC Forecast Update: Upper Green and Yampa

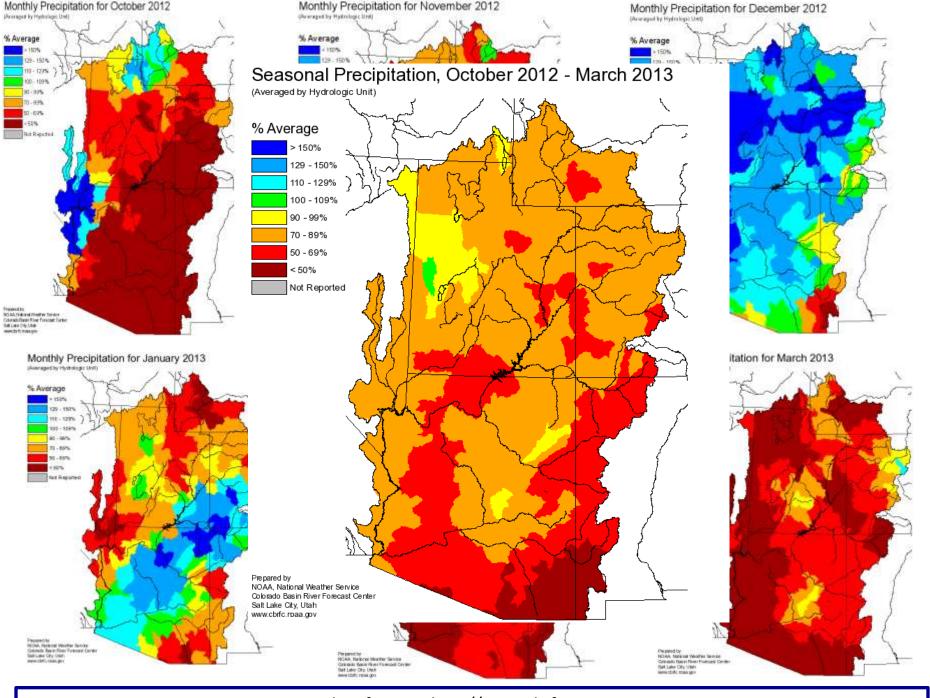
April 24, 2013
Ashley Nielson
NWS Colorado Basin River Forecast Center





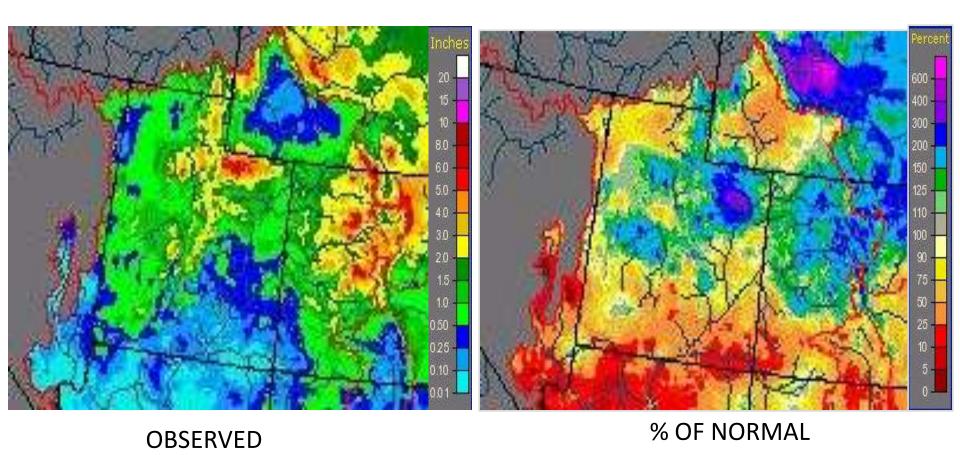






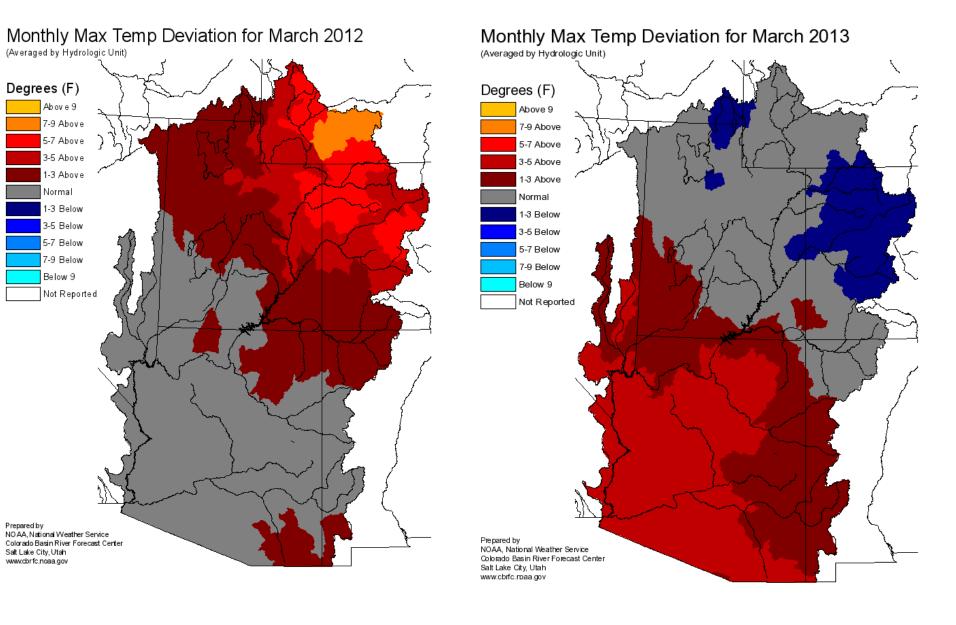
Web Reference: http://www.cbrfc.noaa.gov

April Precipitation: Month to Date

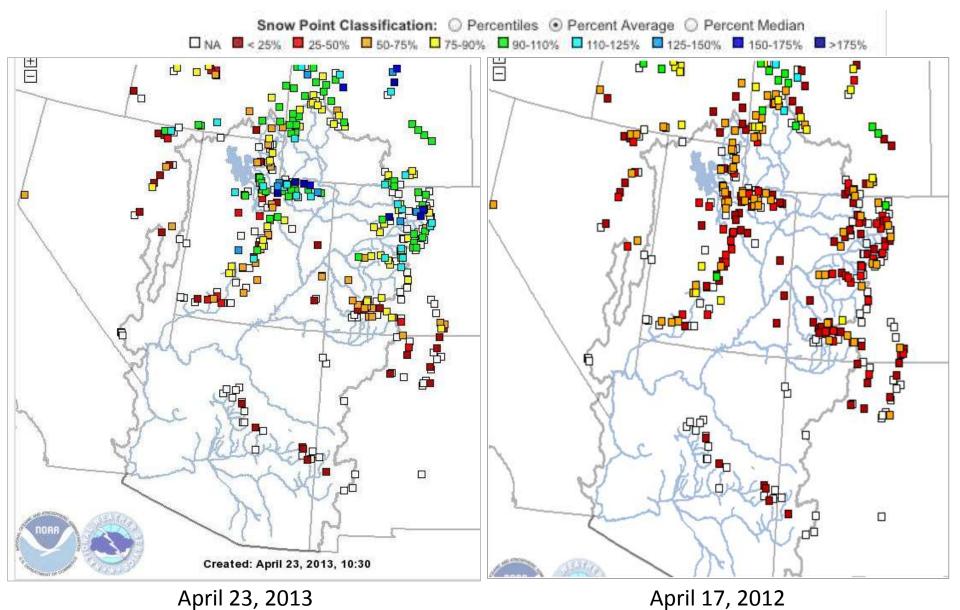


Temperatures:

Significant difference between March/April 2012 and March/April 2013



Snow

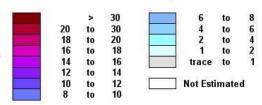


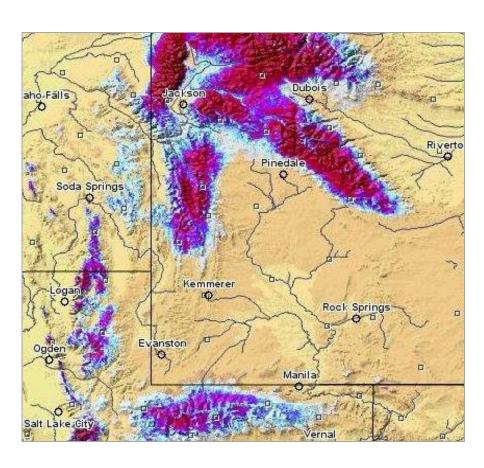
Web Reference: http://www.cbrfc.noaa.gov/gmap/gmapm.php?scon=checked

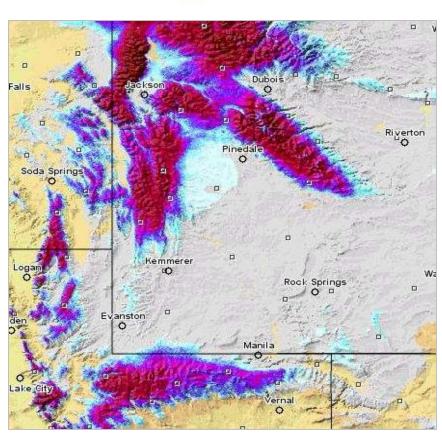
Snow: Upper Green

Inches of water equivalent

Retained and accumulated the snowpack longer compared to 2012





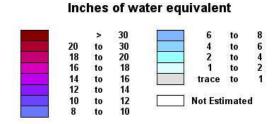


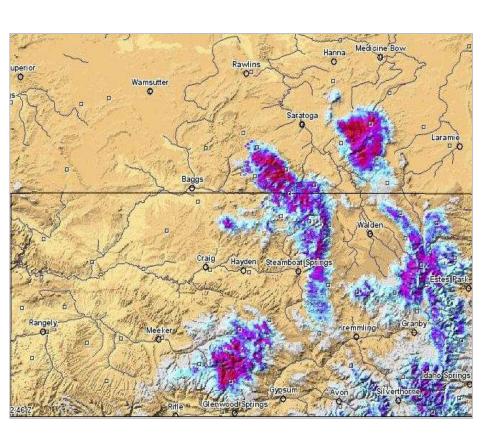
April 18 2012

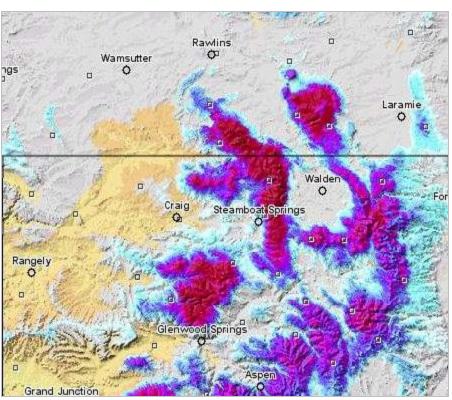
April 23 2013

Snow: Yampa

Retained and accumulated the snowpack longer compared to 2012



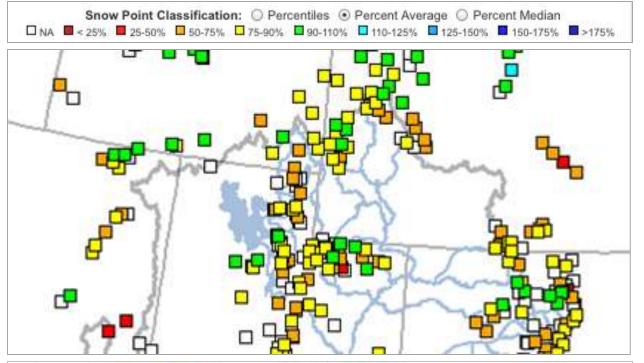




April 18 2012

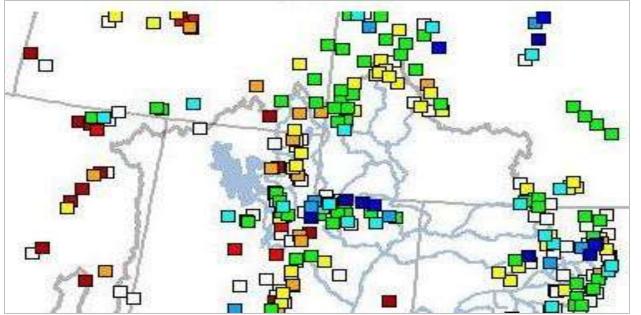
April 23 2013

Snow: April Retention and Building of Snowpack



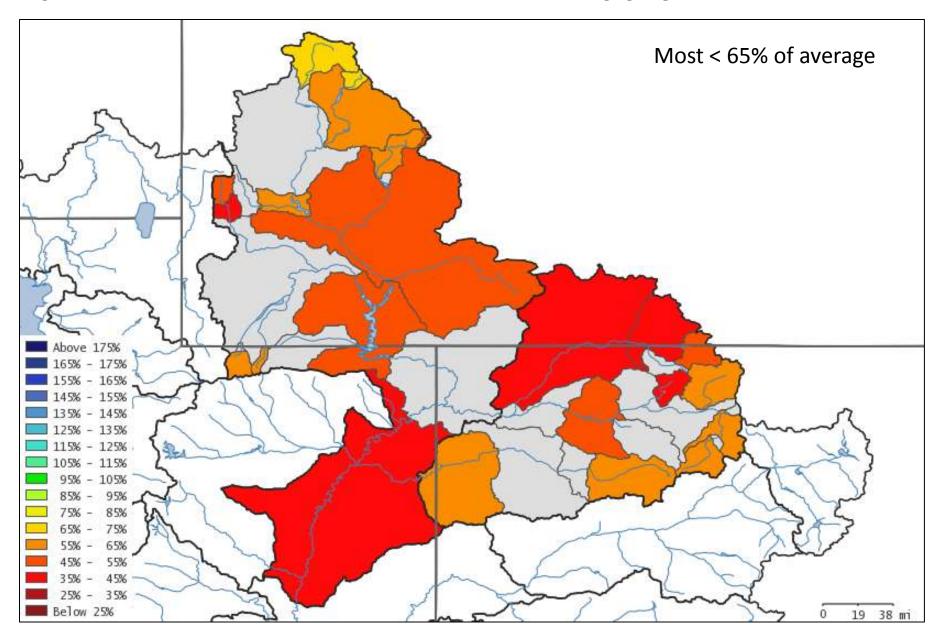
April 1, 2013:

Upper Green = 75% Yampa = 72%



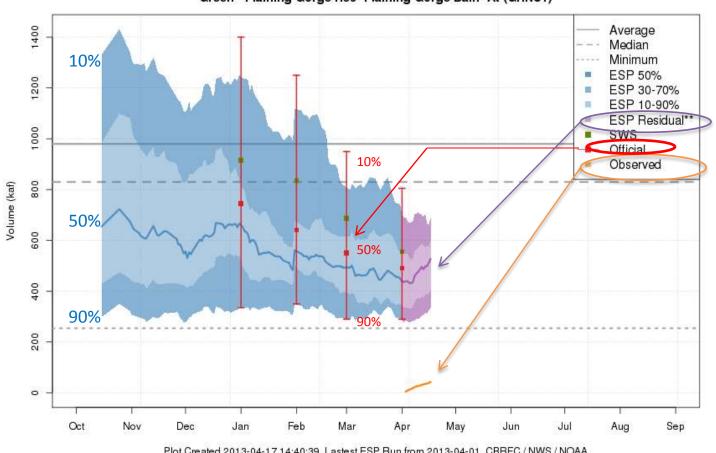
April 23, 2013 Upper Green = 100% Yampa = 99%

April 1st Most Probable Water Supply Forecasts



Daily Model Guidance (ESP) and Official Forecast Evolution Plot

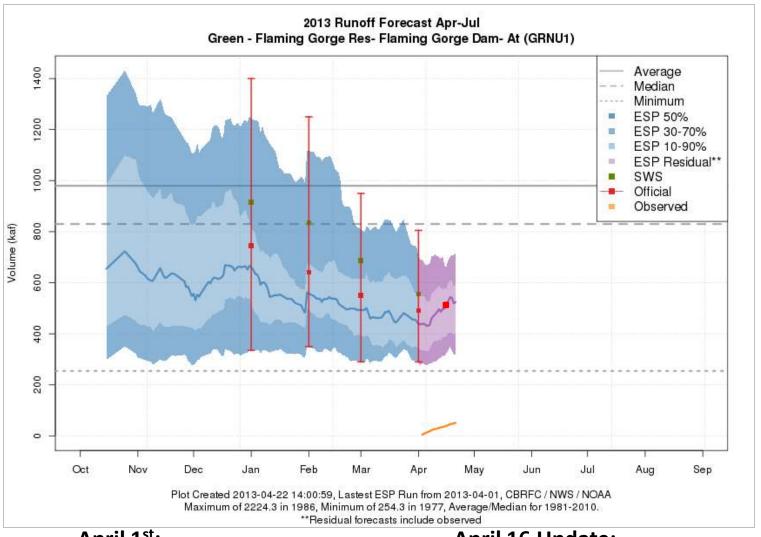




Plot Created 2013-04-17 14:40:39, Lastest ESP Run from 2013-04-01, CBRFC / NWS / NOAA Maximum of 2224.3 in 1986, Minimum of 254.3 in 1977, Average/Median for 1981-2010.

Residual forecasts include observed

FORECASTS: Upper Green



April 1st:

MAX (10%): 805 kaf

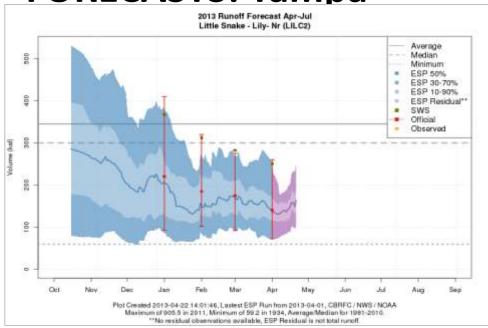
MP (50%): 490 kaf 50% avg

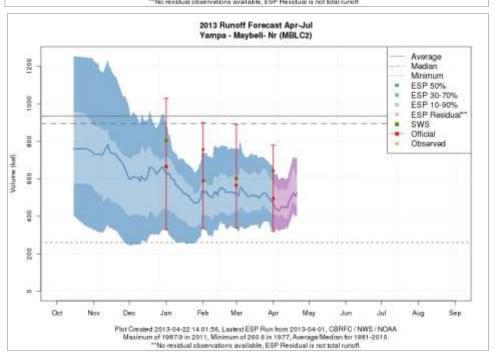
MIN (90%): 290 kaf

April 16 Update:

MP (50%): 530 kaf 54% avg

FORECASTS: Yampa





April 1st:

MAX (10%): 260 kaf

MP (50%): 140 kaf 41% avg

MIN (90%): 72 kaf

April 16 Update:

MP (50%): 166 kaf 48% avg

April 1st:

MAX (10%): 780 kaf

MP (50%): 495 kaf 53% avg

MIN (90%): 320 kaf

April 16 Update:

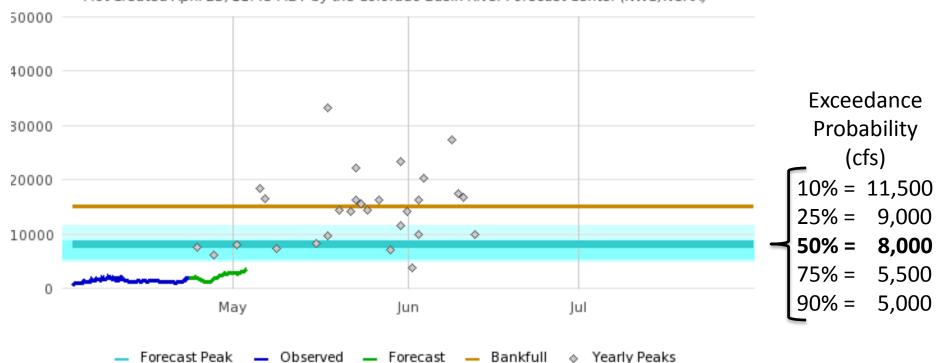
MP (50%): 565 kaf 60% avg

PEAKFLOW FORECASTS

YAMPA - DEERLODGE PARK (ydlc2)

Flow (cfs) for April-July, Forecast run 2013-04-23 14:00 GMT

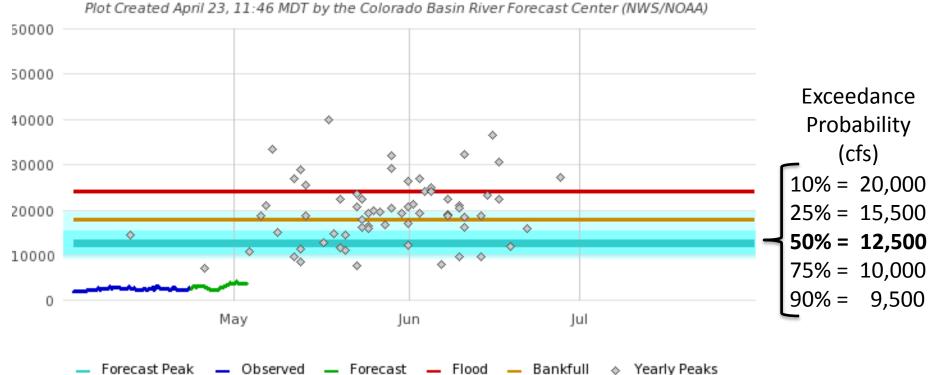
Plot Created April 23, 11:45 MDT by the Colorado Basin River Forecast Center (NWS/NOAA)



PEAKFLOW FORECASTS

GREEN - JENSEN, NR (jesu1)

Flow (cfs) for April-July, Forecast run 2013-04-23 14:00 GMT



Spring Weather Really Matters

- Runoff characteristics are largely determined by the day-to-day spring weather.
 - While large snow pack years increase chances for flooding, it is not an inevitability (dodged a bullet at many sites in 2011)
 - Small snow pack years can flood with the right sequence of spring temperatures and with flows enhanced by precipitation.
 - Rain events may play a larger role in the magnitude of the peak flow during very low snow years.
 - Keep an eye on our web page / daily forecasts

(Daily Forecasts: http://www.cbrfc.noaa.gov/gmap/cmap2.php)

Feedback, Questions, Concerns always welcome....



Ashley Nielson

CBRFC Hydrologist

Phone: 801.524.5130 ext 333

Email: ashley.nielson@noaa.gov

