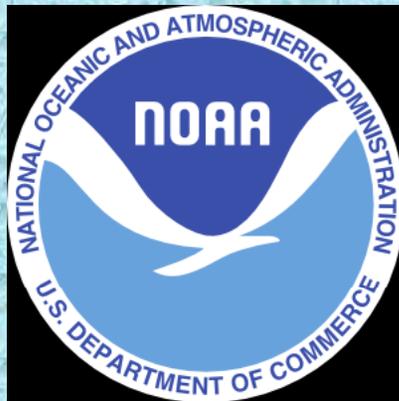
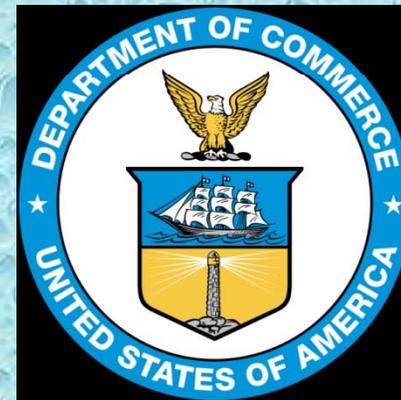


Gunnison River Basin Water Year 2010 Current Conditions and Forecasts

Aspinall Unit Operation Meeting
April 22, 2010

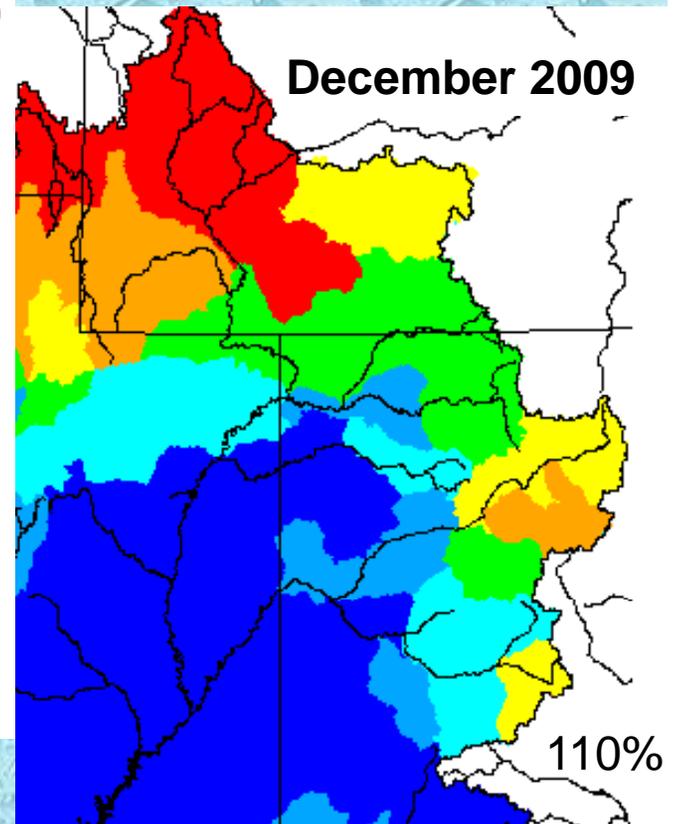
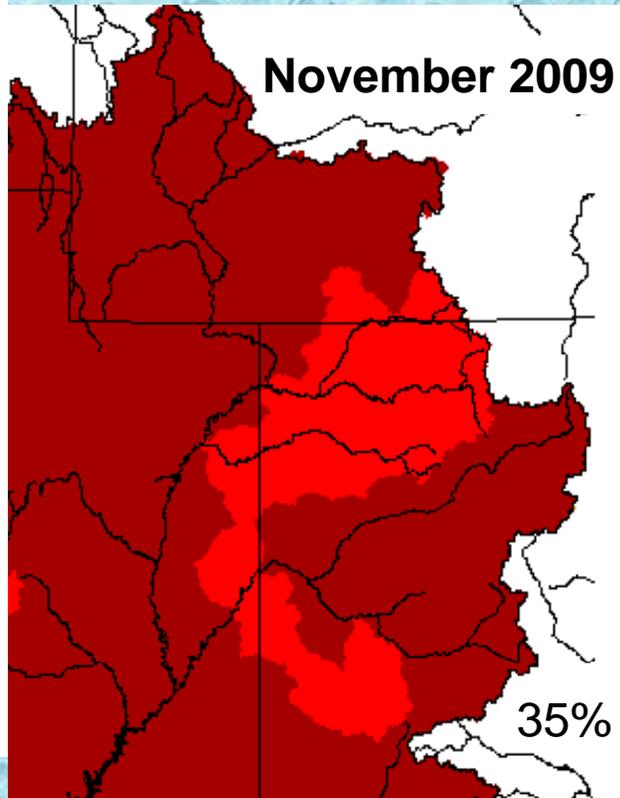
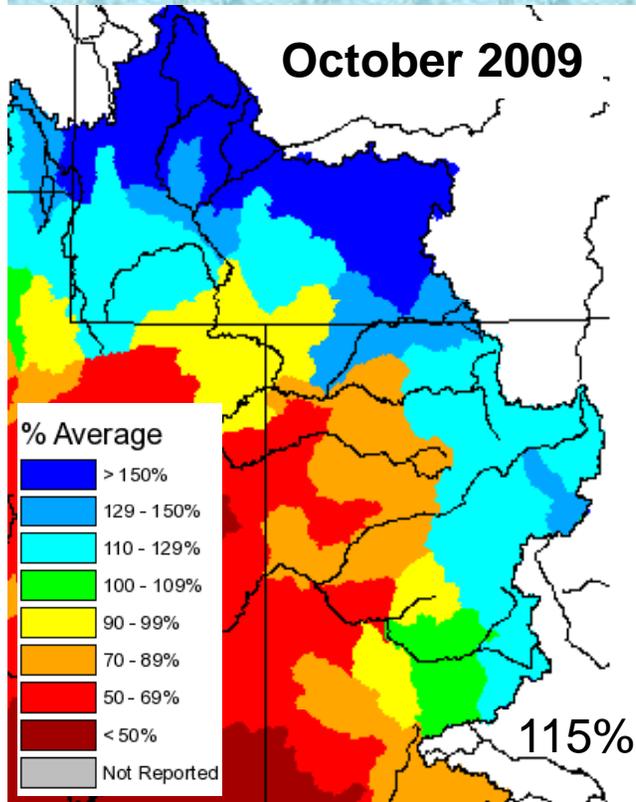


Tracy Cox
Kevin Werner
Hydrologists



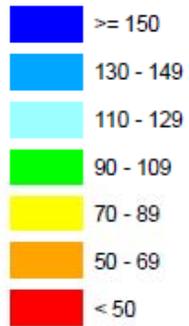
Colorado Basin River Forecast Center

Oct-Dec Precipitation

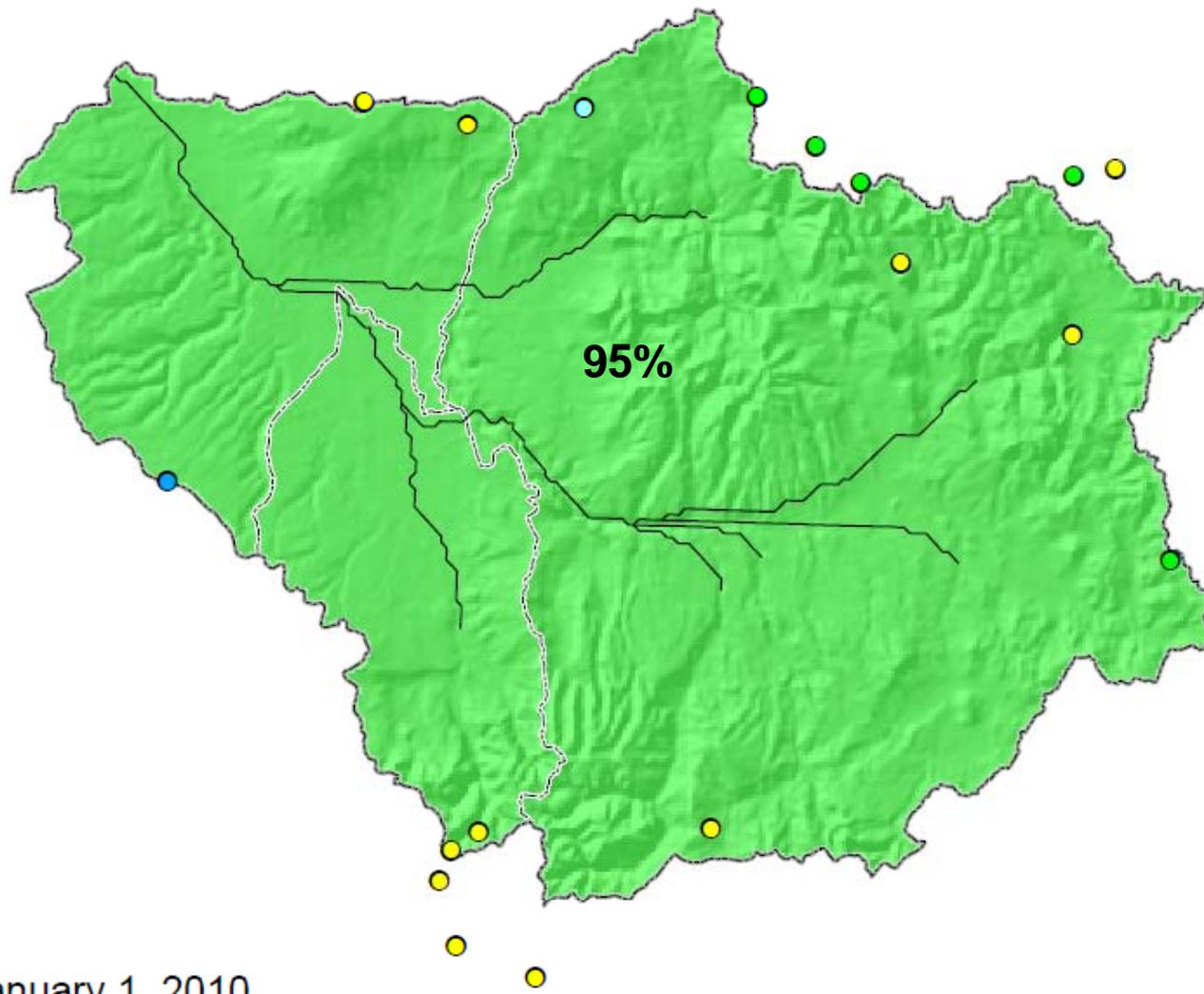


Gunnison River Basin Snowpack Map

Percent of Average

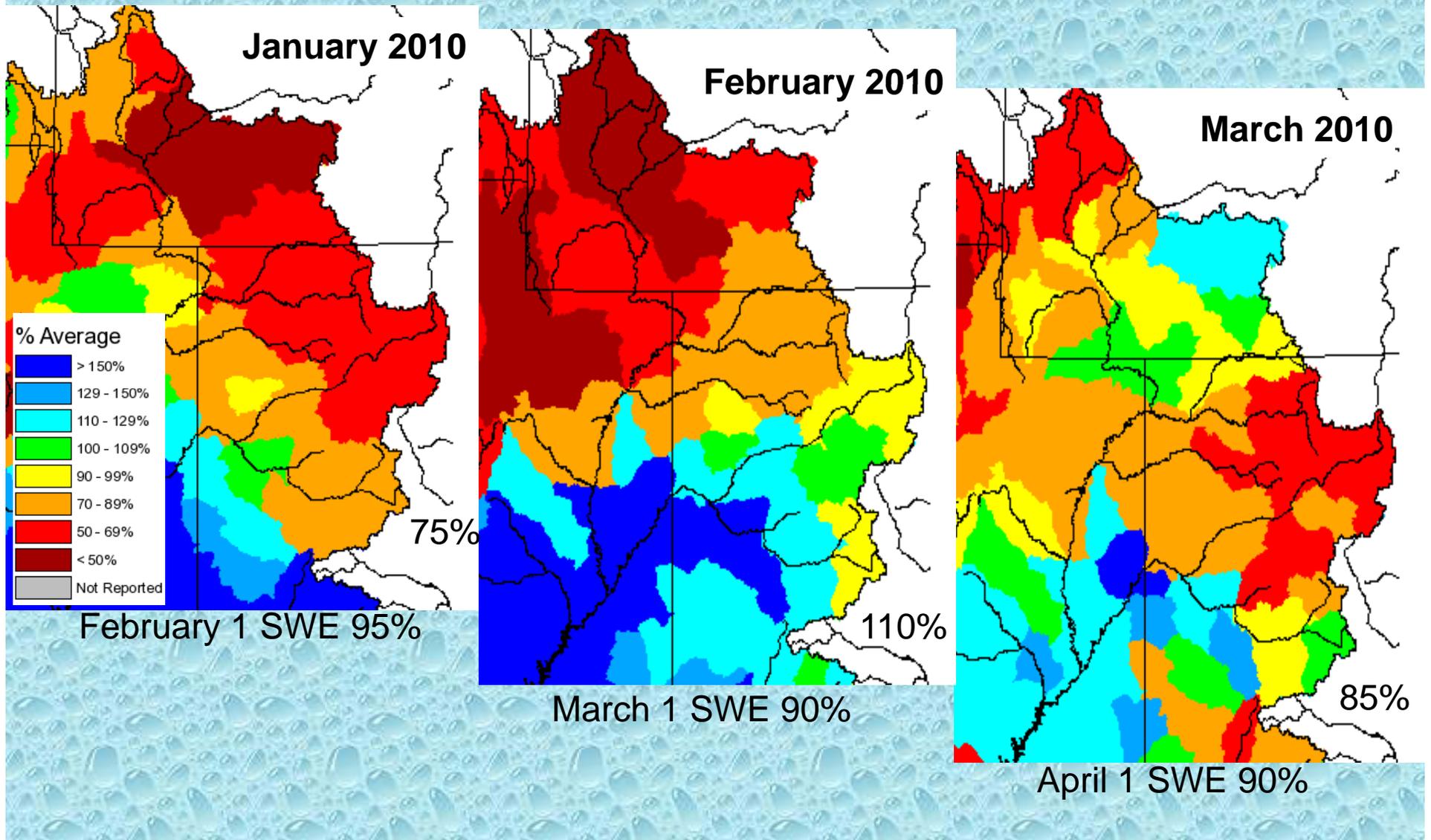


*Provisional Data
Subject to Revision*



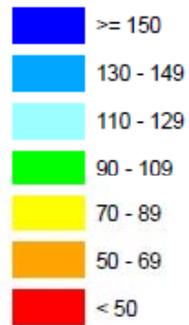
Current as of January 1, 2010

Jan-Mar Precipitation

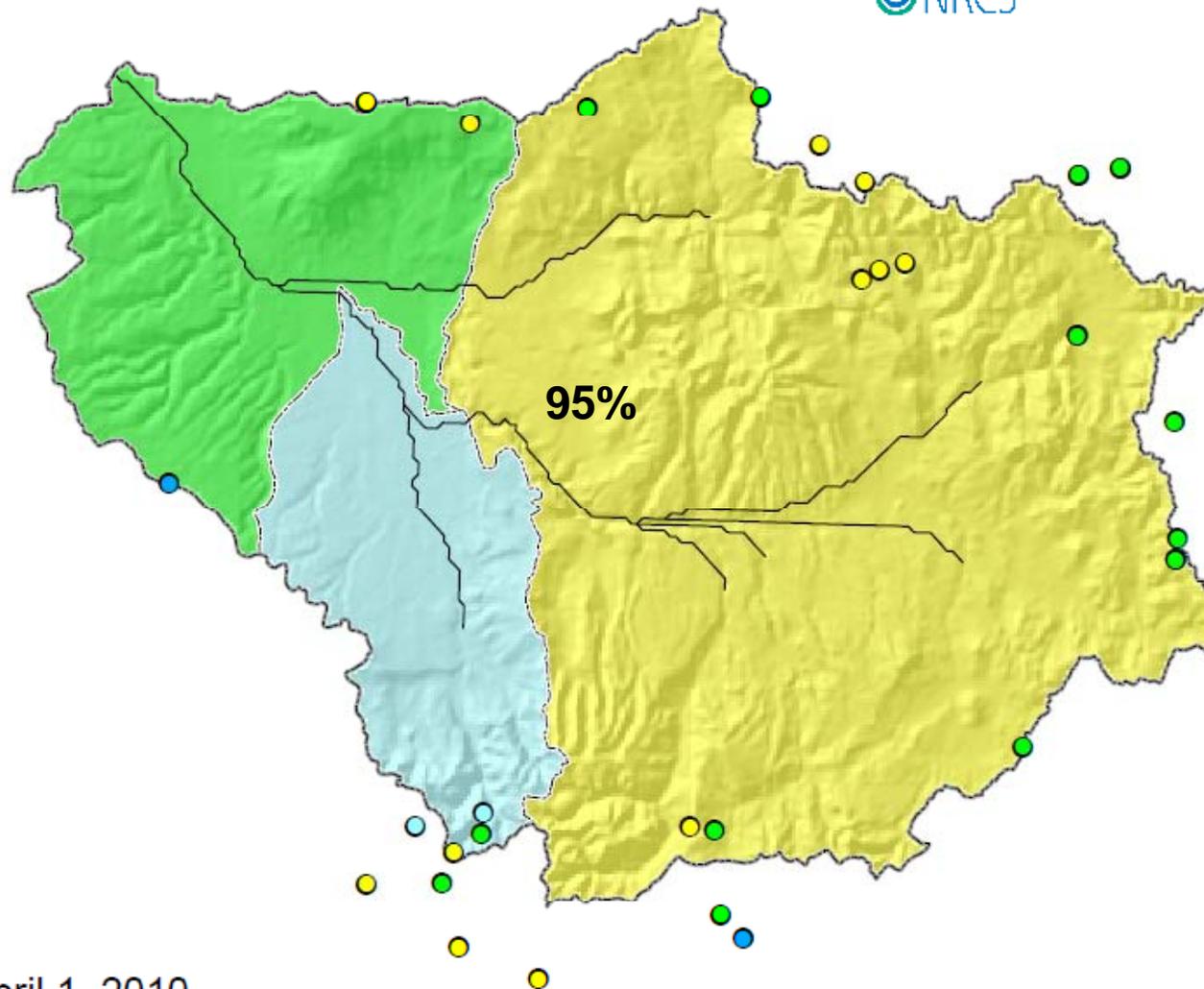


Gunnison River Basin Snowpack Map

Percent of Average



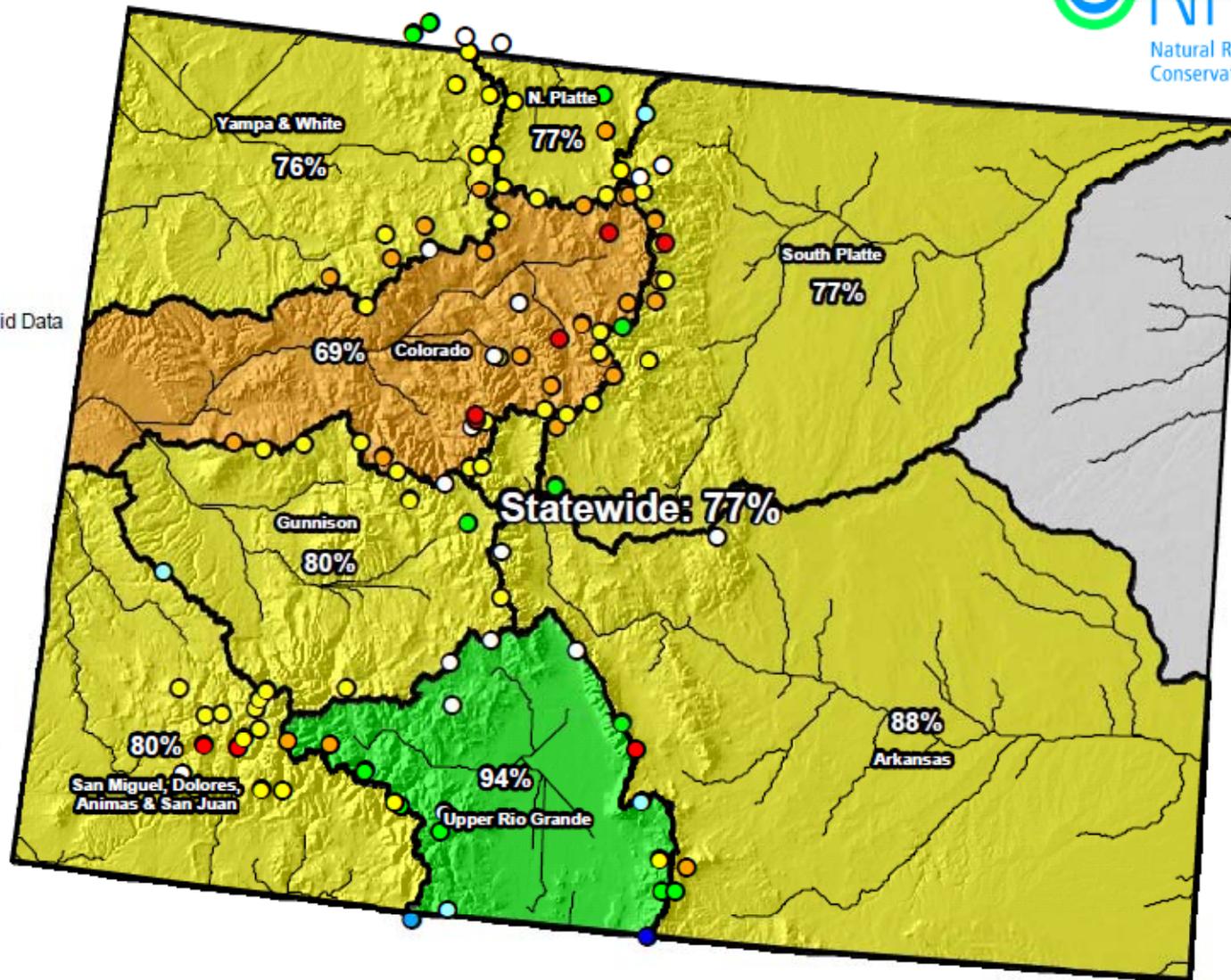
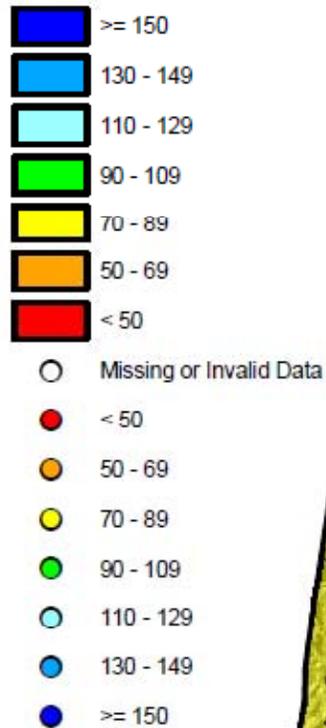
*Provisional Data
Subject to Revision*



Current as of April 1, 2010

Colorado SNOTEL Snowpack Update Map with Site Data

Percent of Average

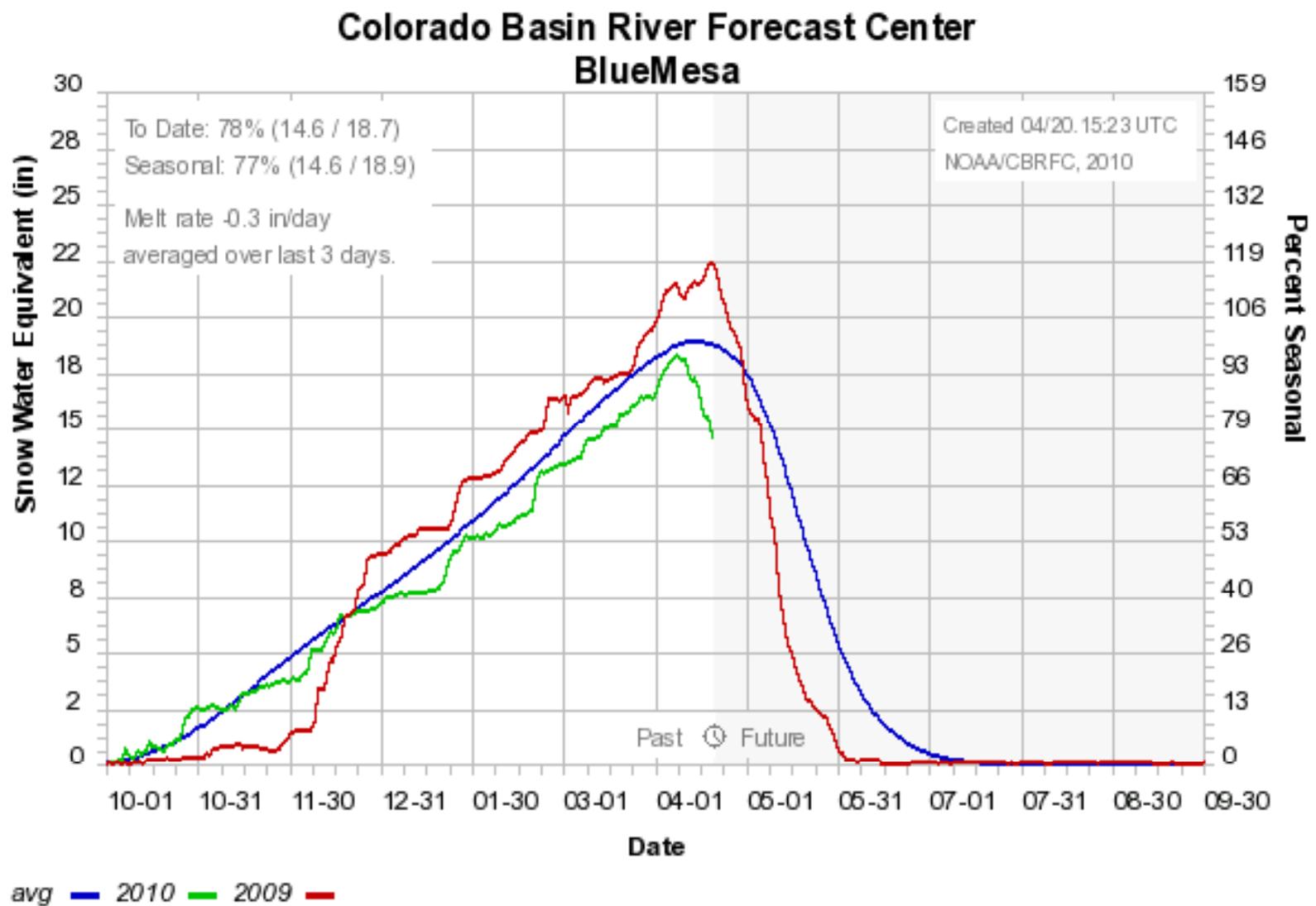


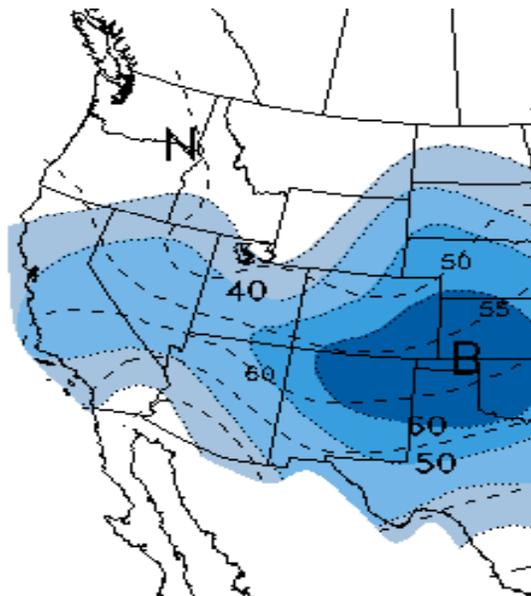
*Provisional Data
Subject to Revision*

Current as of Apr 19, 2010

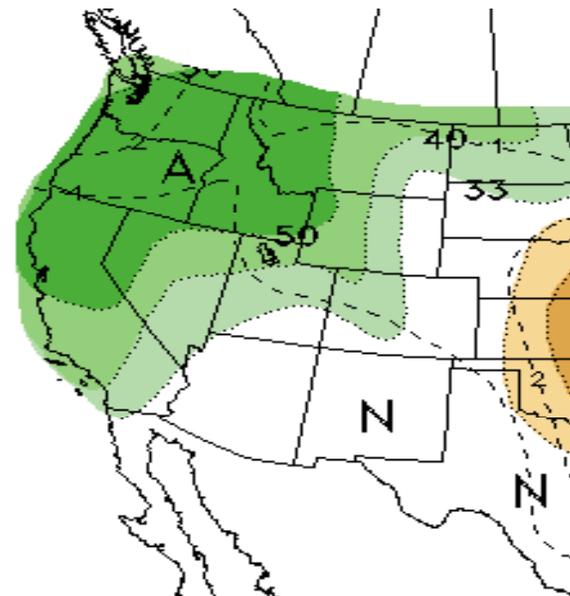
*Data may not provide a valid measure of conditions

Current snowpack above Blue Mesa

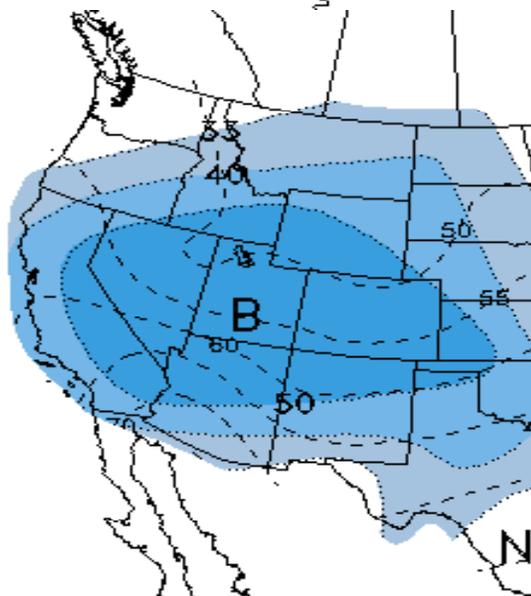




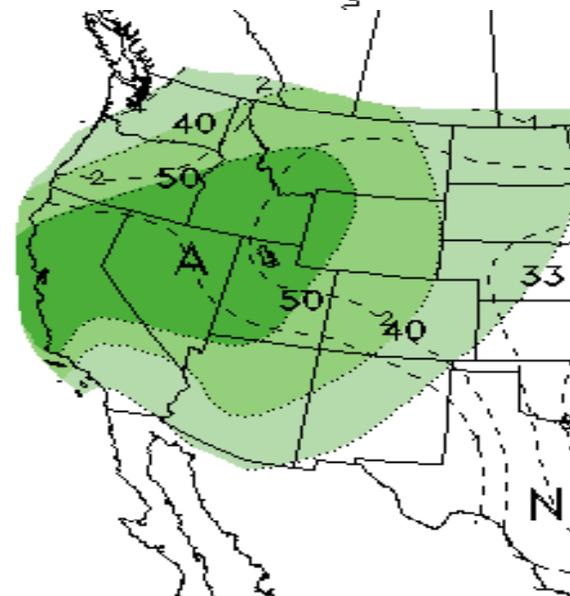
6-10 DAY OUTLOOK
 TEMPERATURE PROBABILITY
 MADE 19 APR 2010
 VALID APR 25 - 29, 2010



6-10 DAY OUTLOOK
 PRECIPITATION PROBABILITY
 MADE 19 APR 2010
 VALID APR 25 - 29, 2010

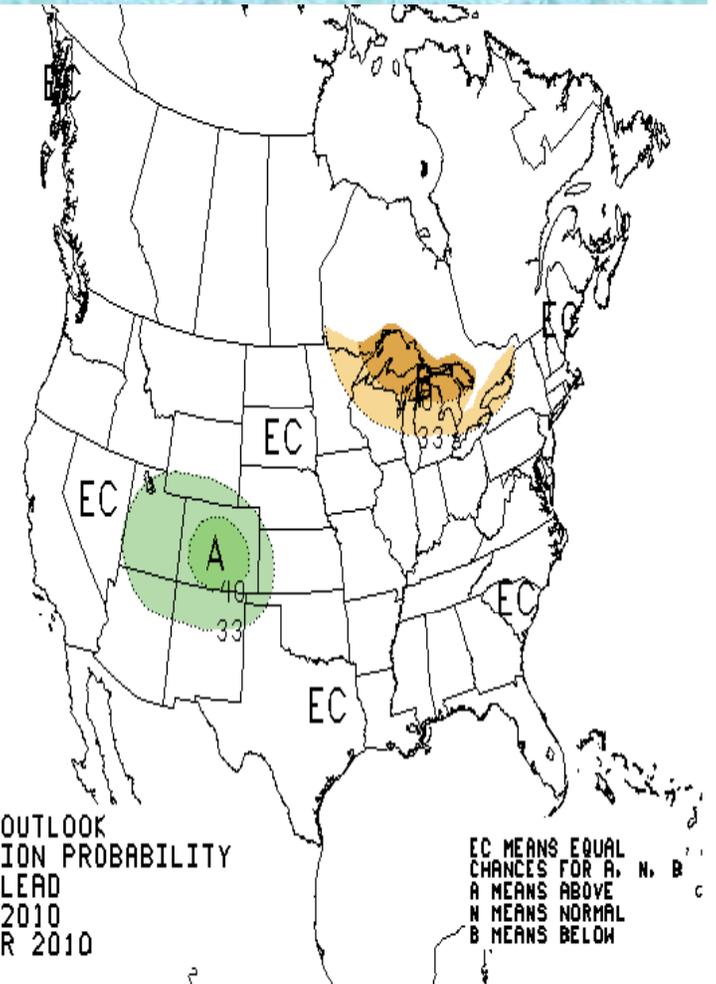
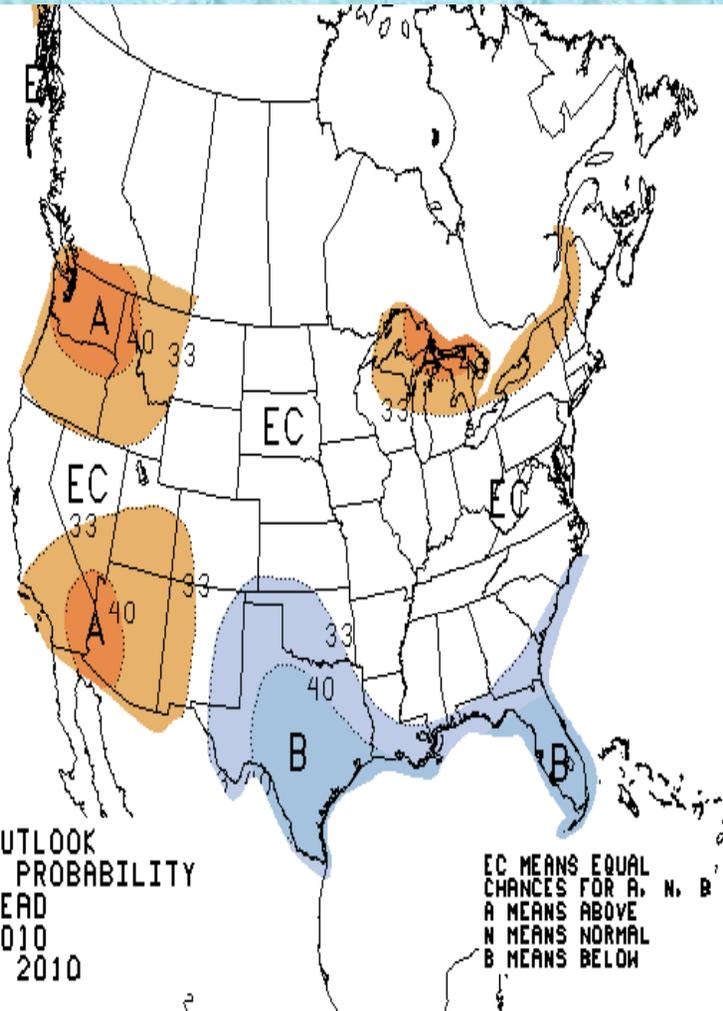


8-14 DAY OUTLOOK
 TEMPERATURE PROBABILITY
 MADE 19 APR 2010
 VALID APR 27 - MAY 03, 2010

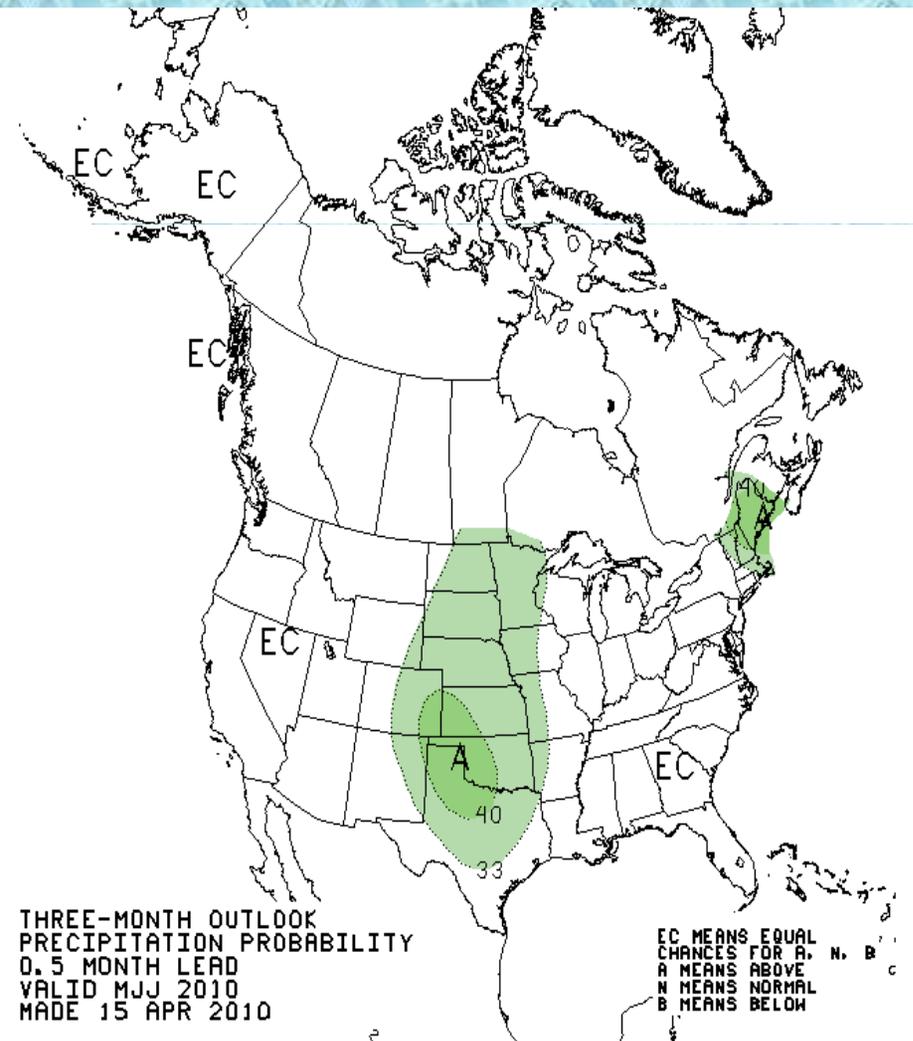
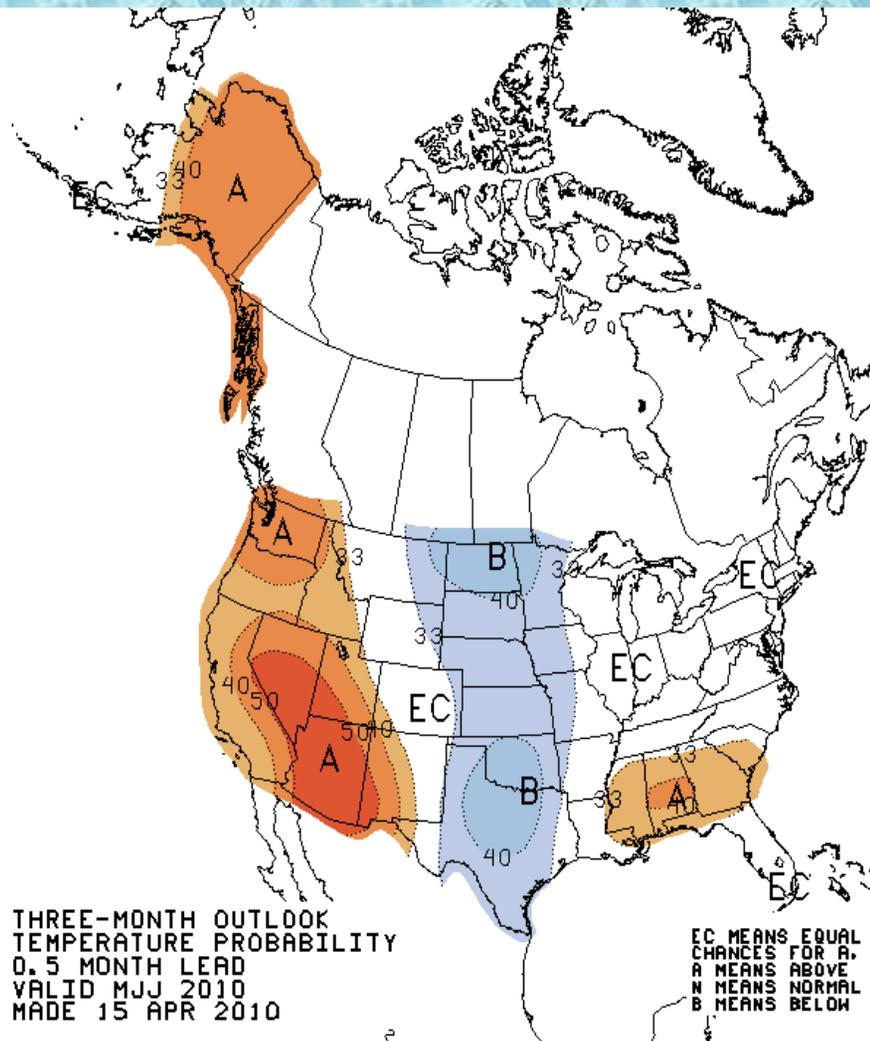


8-14 DAY OUTLOOK
 PRECIPITATION PROBABILITY
 MADE 19 APR 2010
 VALID APR 27 - MAY 03, 2010

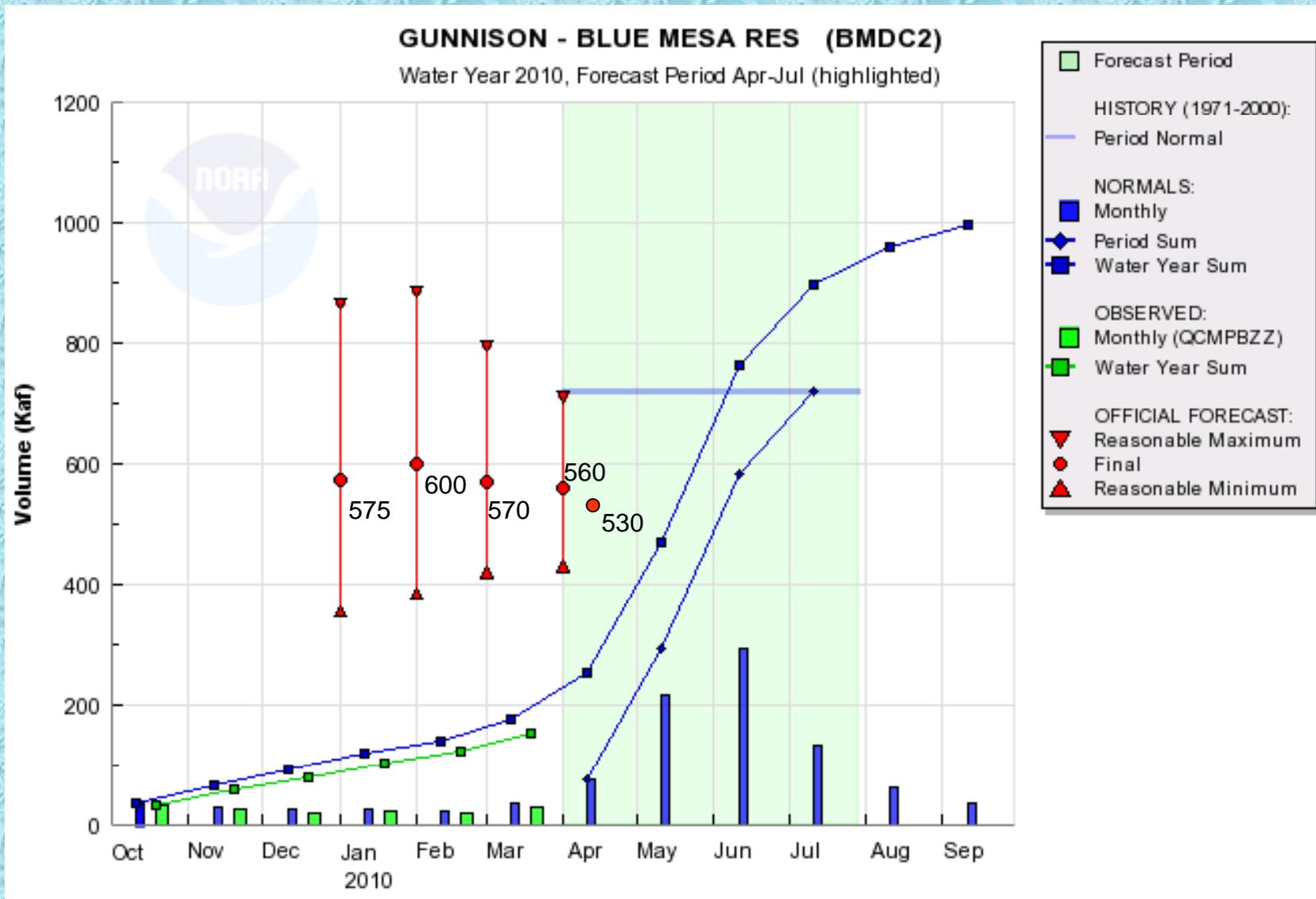
May 2010 Outlook



May-June-July Outlook

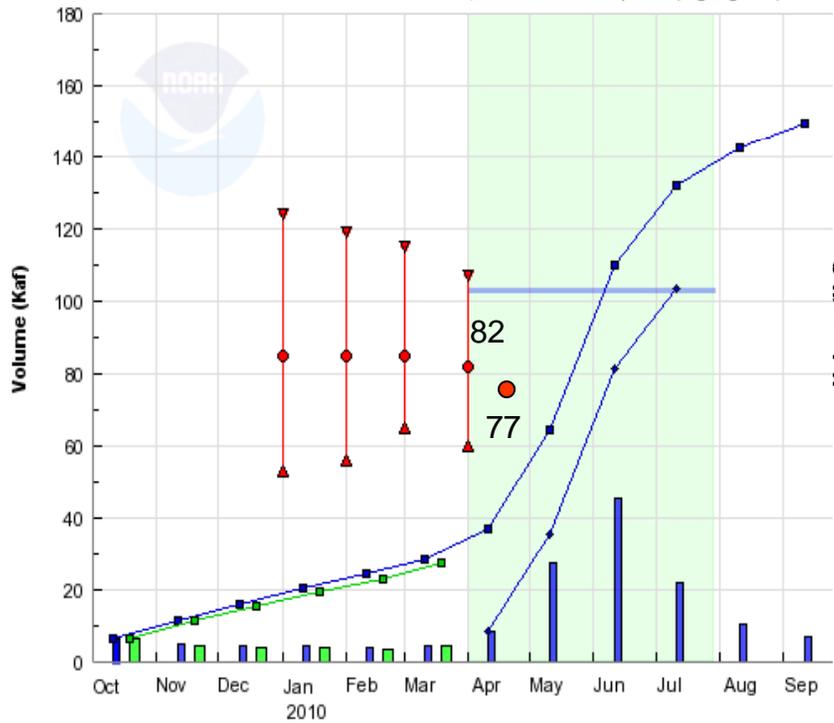


Blue Mesa Forecast Evolution



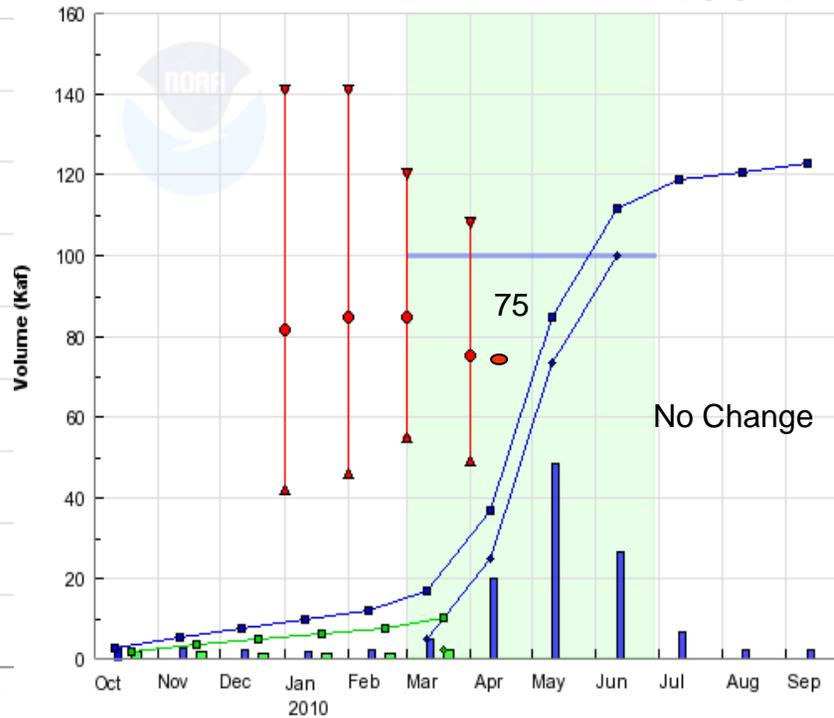
TAYLOR - TAYLOR PARK RES (TPIC2)

Water Year 2010, Forecast Period Apr-Jul (highlighted)



MUDDY CK - PAONIA RES, BARDINE, NR (PRSC2)

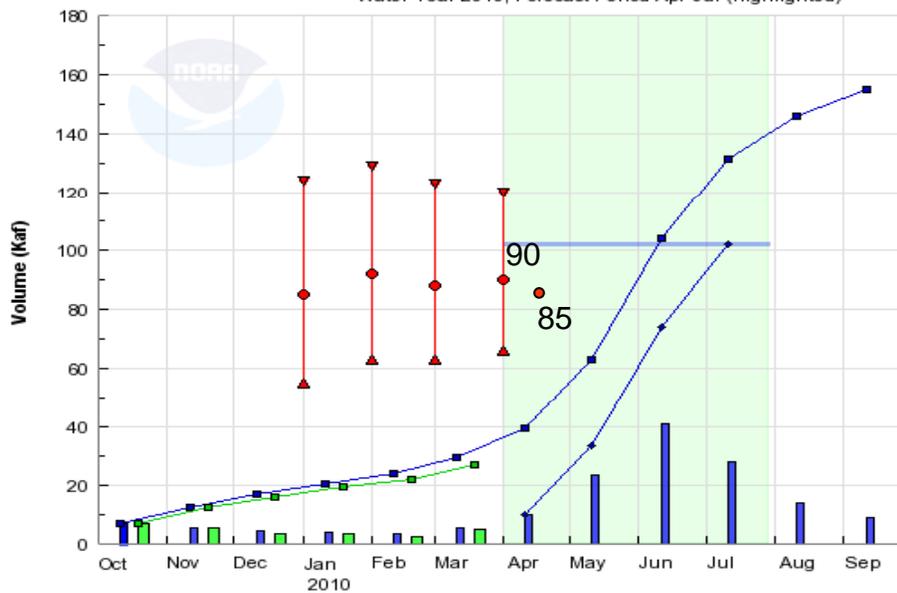
Water Year 2010, Forecast Period Mar-Jun (highlighted)



- Forecast Period
- HISTORY (1971-2000):
- Period Normal
- NORMALS:
- Monthly
- Period Sum
- Water Year Sum
- OBSERVED:
- Monthly (QCMRZZZ)
- Period Sum
- Water Year Sum
- OFFICIAL FORECAST:
- Reasonable Maximum
- Final
- Reasonable Minimum

UNCOMPAGHRE - RIDGWAY RES (RBSC2)

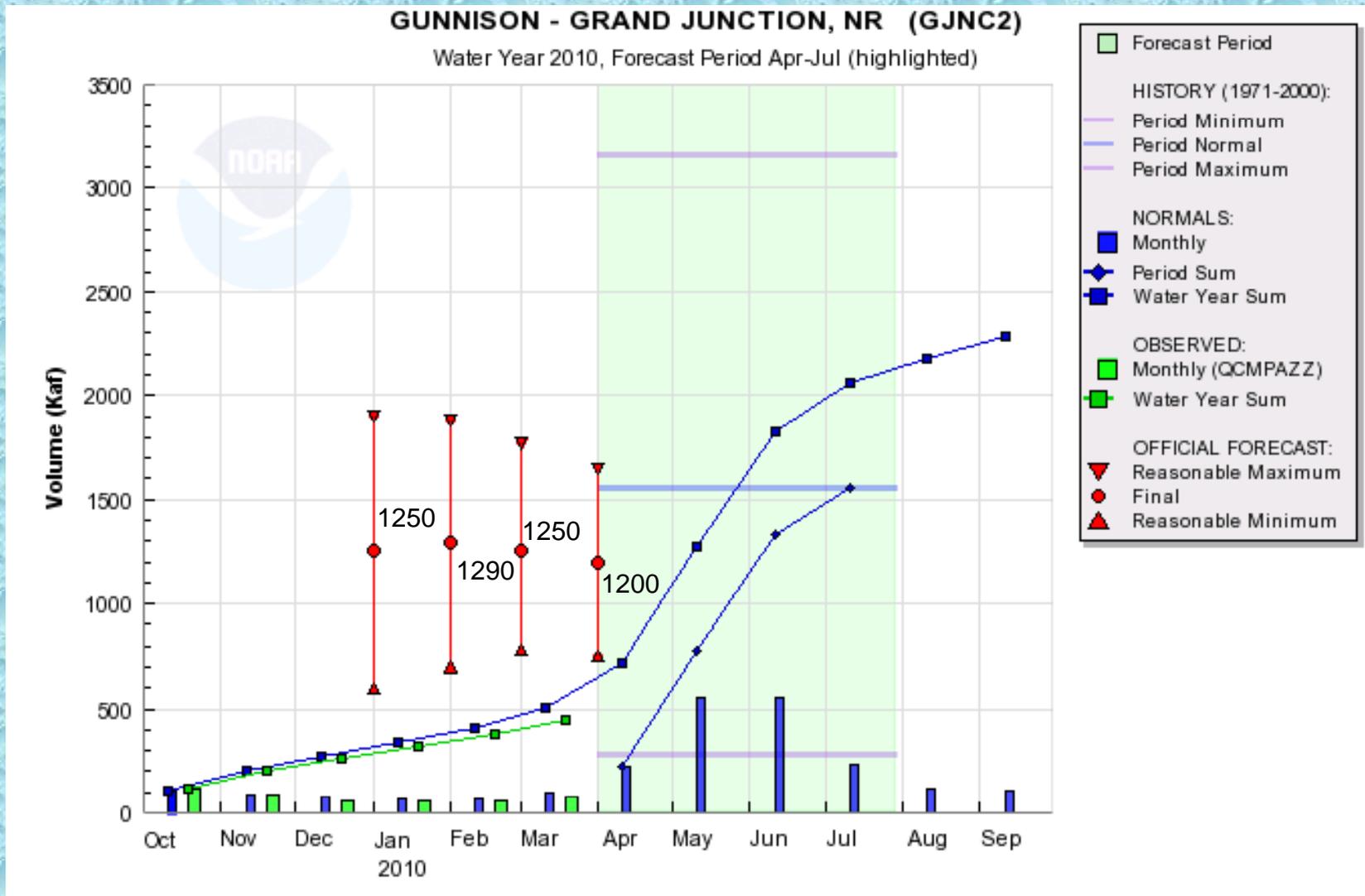
Water Year 2010, Forecast Period Apr-Jul (highlighted)



- Forecast Period
- HISTORY (1971-2000):
- Period Normal
- NORMALS:
- Monthly
- Period Sum
- Water Year Sum
- OBSERVED:
- Monthly (QCMRZZZ)
- Water Year Sum
- OFFICIAL FORECAST:
- Reasonable Maximum
- Final
- Reasonable Minimum



Grand Junction Forecast Evolution



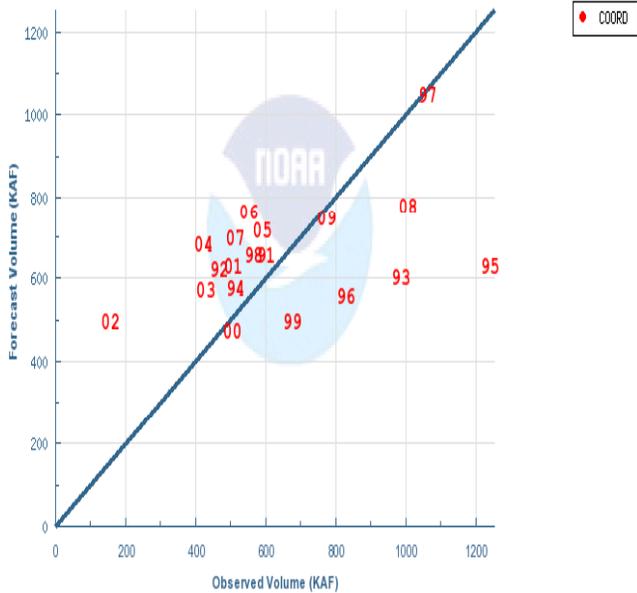
Blue Mesa Inflow

Forecast vs. Observed Volumes

1991-2009

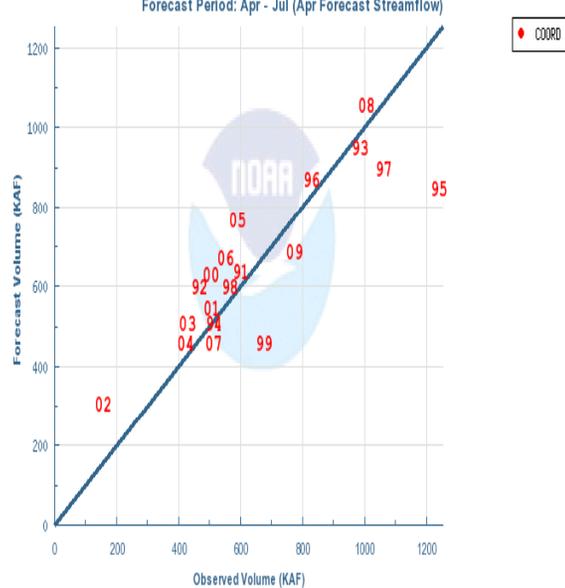
January

Streamflow - GUNNISON - BLUE MESA RES (BMDC2)
Forecast Period: Apr - Jul (Jan Forecast Streamflow)



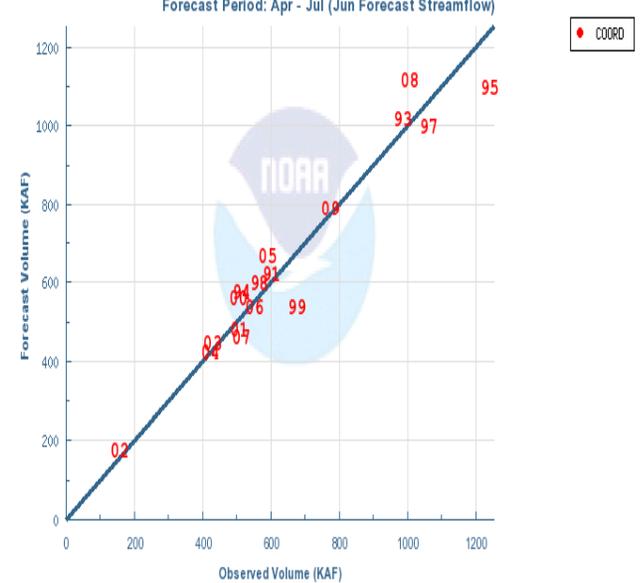
April

Streamflow - GUNNISON - BLUE MESA RES (BMDC2)
Forecast Period: Apr - Jul (Apr Forecast Streamflow)



June

Streamflow - GUNNISON - BLUE MESA RES (BMDC2)
Forecast Period: Apr - Jul (Jun Forecast Streamflow)



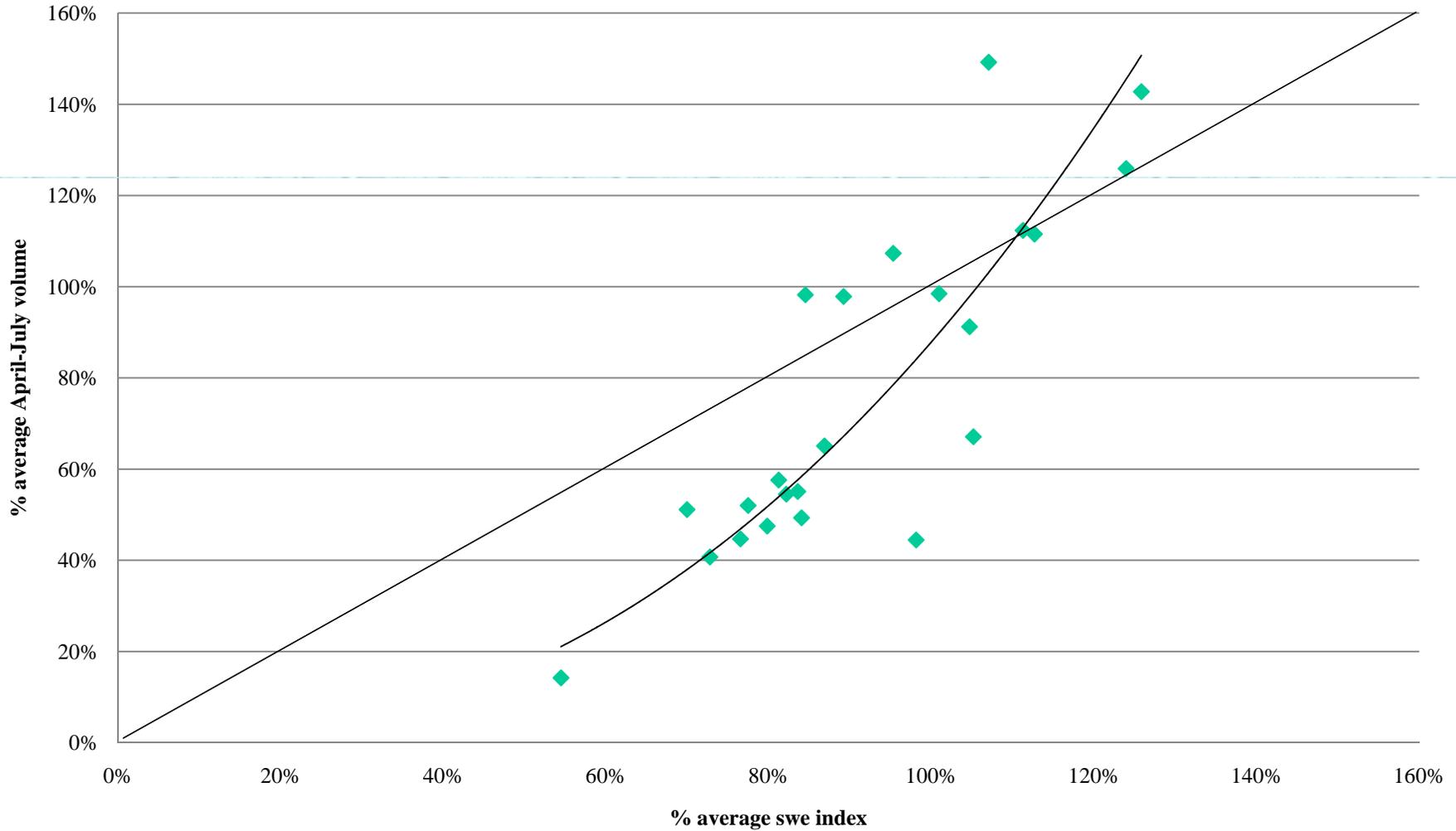
Peak Flow Forecasts

	90%	75%	50%	25%	10%
North Fork Gunnison near Somerset					
<i>average peak 3,310 cfs</i>					
CFSD	2050	2350	2700	3100	3500
<i>Average time of peak 5/11 - 6/2</i>					
Date of Peak	5/6	5/12	5/19	5/24	6/1
Gunnison at Delta (minus flow from Crystal)					
CFSD	2700	3100	3700	4200	4800
Date of Peak	5/6	5/12	5/19	5/25	6/2

SWE vs Streamflow

$$y = 0.8788x^{2.3485}$$
$$R^2 = 0.7589$$

Lake Powell
April 7 swe index vs. Apr-Jul volume



CBRFC Open House

- Objective: Improve understanding / communication of forecast process and forecast usage
- **August 18, 2010**
 - August 17: Upper Colorado focus
 - August 19: Lower Colorado (esp Salt/Verde) focus
- Salt Lake City, UT
- More details to come
- www.cbrfc.noaa.gov/wsup/openhouse.html

More Resources

Live Water Supply Briefing

The Colorado Basin River Forecast Center (CBRFC) produces water supply forecasts for the Colorado River and eastern Great Basins. Interest in these forecasts has increased over the years. To better meet the needs of our users, the CBRFC is conducting teleconference and internet briefings. The briefing will present graphics of current basin precipitation, snow and runoff conditions, as well as the latest climatological outlooks and water supply forecasts. There will be time available for questions following the presentation.

The briefing is composed of two parts, a telephone conference call and a web-based presentation. The conference call can be accessed by dialing the phone number provided by the webinar registration a few minutes prior to the start of the call and entering the access code. To view the web-based presentation, you will need to sign up prior to the briefing. Click on [REGISTER](#) to sign up for the briefing. For those of you who are unable to view the web-based presentation on your computer, you can follow the presentation by clicking web links that will be posted on our site prior to the call.

Future briefings will be scheduled as interest demands. Please contact kevin.werner@noaa.gov or 301.524.5130 for any questions or comments on this.

Logistics Summary:

Date: May 7, 2010

Time: 10am MDT

Duration: Approximately 1/2 hour

Webinar: <https://www1.gotomeeting.com/register/497770584>

Phone: 1 377 929 0660

Access: 1706374#

Slides from the November 2009 briefing on forecast evaluation and look ahead

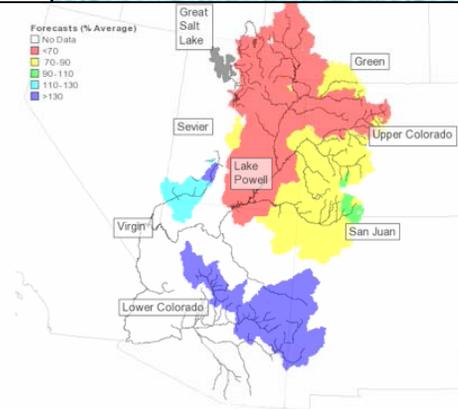
Slides from previous 2010 briefings are available on [this page](#)

Podcast versions are available on [this page](#)

[Sign up to receive CBRFC Water Supply Webinar Announcements email updates](#)

Outline

- March Weather Review
- Snow States
- Water Supply Forecasts



Web Reference: www.cbrfc.noaa.gov/wsup/pu

Email Updates: Automatic email update customized to what you need.

<http://www.cbrfc.noaa.gov/wsup/gowdelivery.html>

National Oceanic and Atmospheric Administration
National Weather Service

Colorado and Great Basins

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- CBRFC Water Supply Forecasts
- CBRFC Monthly Temperature Analysis
- CBRFC Monthly Precipitation Analysis
- Weekly weather updates
 - Green River Basin weekly updates
 - Lower Colorado Basin weekly updates
 - Salt Lake Basin weekly updates
 - San Juan River Basin weekly updates
 - Sever River Basin
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- Weekly model updates**
 - Green River Basin Weekly Updates
 - Lower Colorado Basin weekly updates
 - Salt Lake Basin weekly updates
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Date: 2/24/10 12:14 PM
To: Kevin.Werner@noaa.gov ▾

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