


Gunnison River Basin Current Conditions and Forecasts

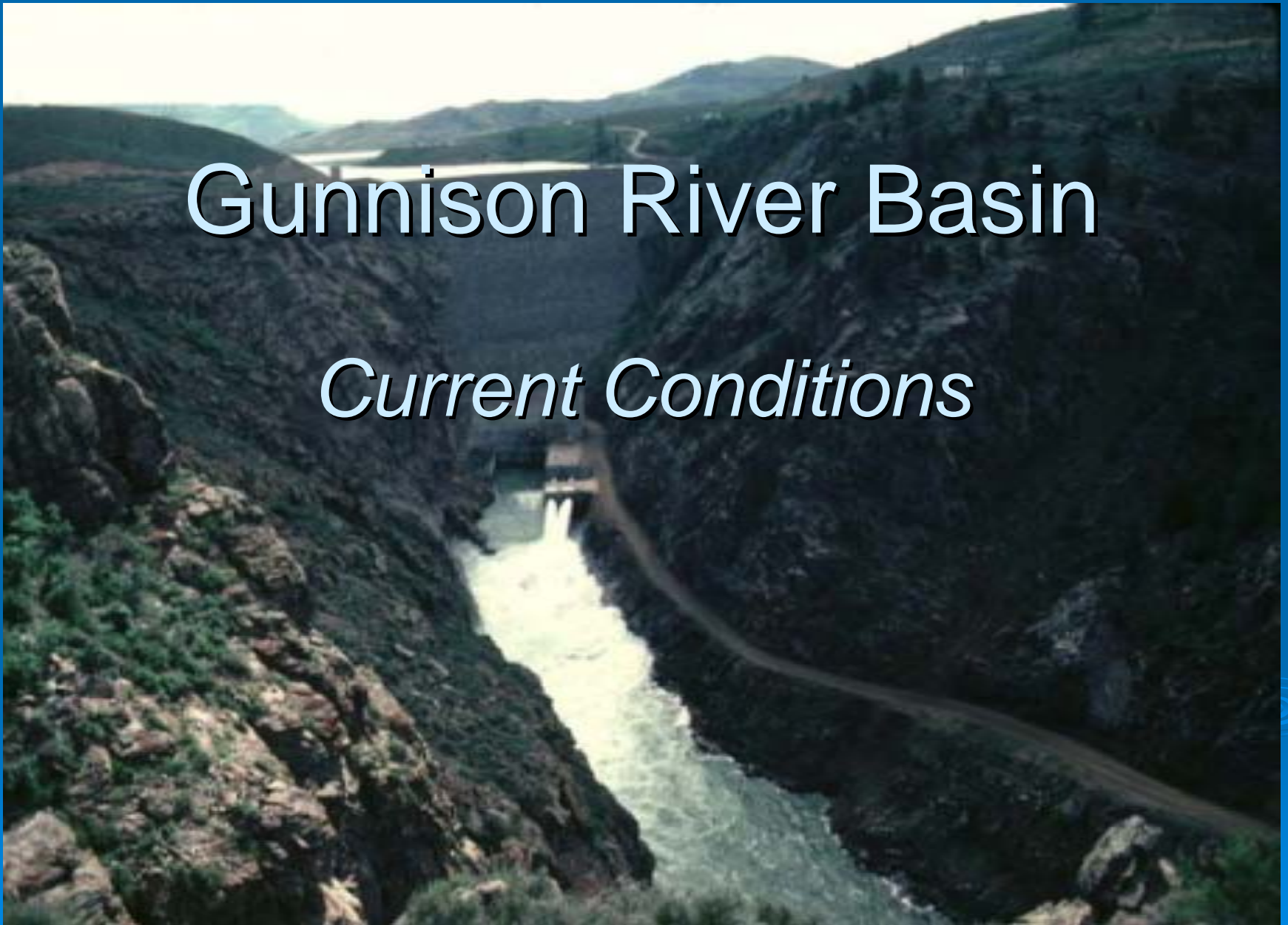
Aspinall Unit Operation Meeting
April 26, 2007

Brenda Alcorn
Senior Hydrologist
Colorado Basin River Forecast Center



Gunnison River Basin

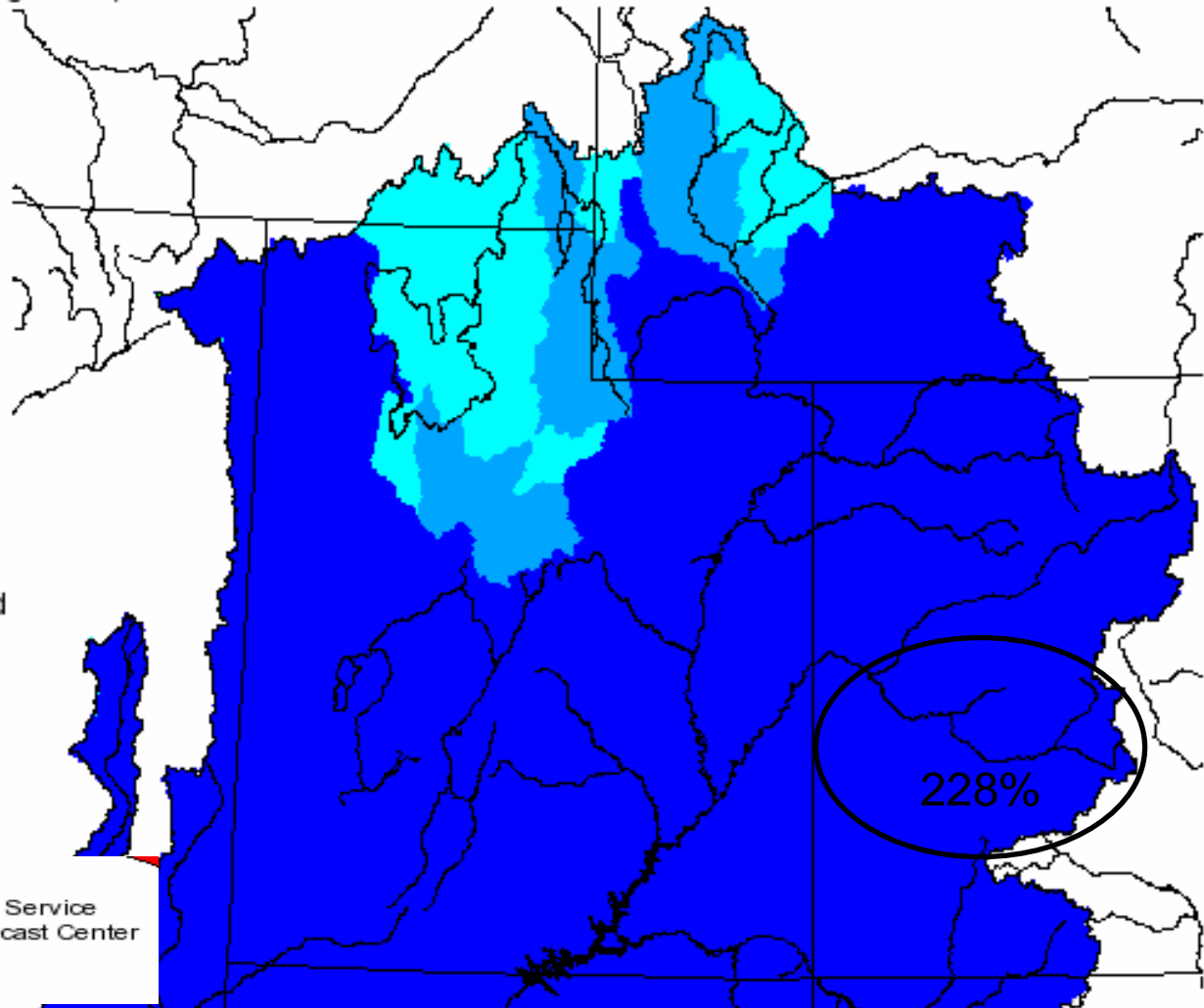
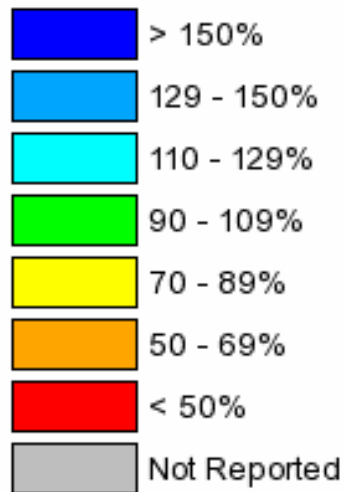
Current Conditions



Monthly Precipitation for October 2006

(Averaged by Hydrologic Unit)

% Average

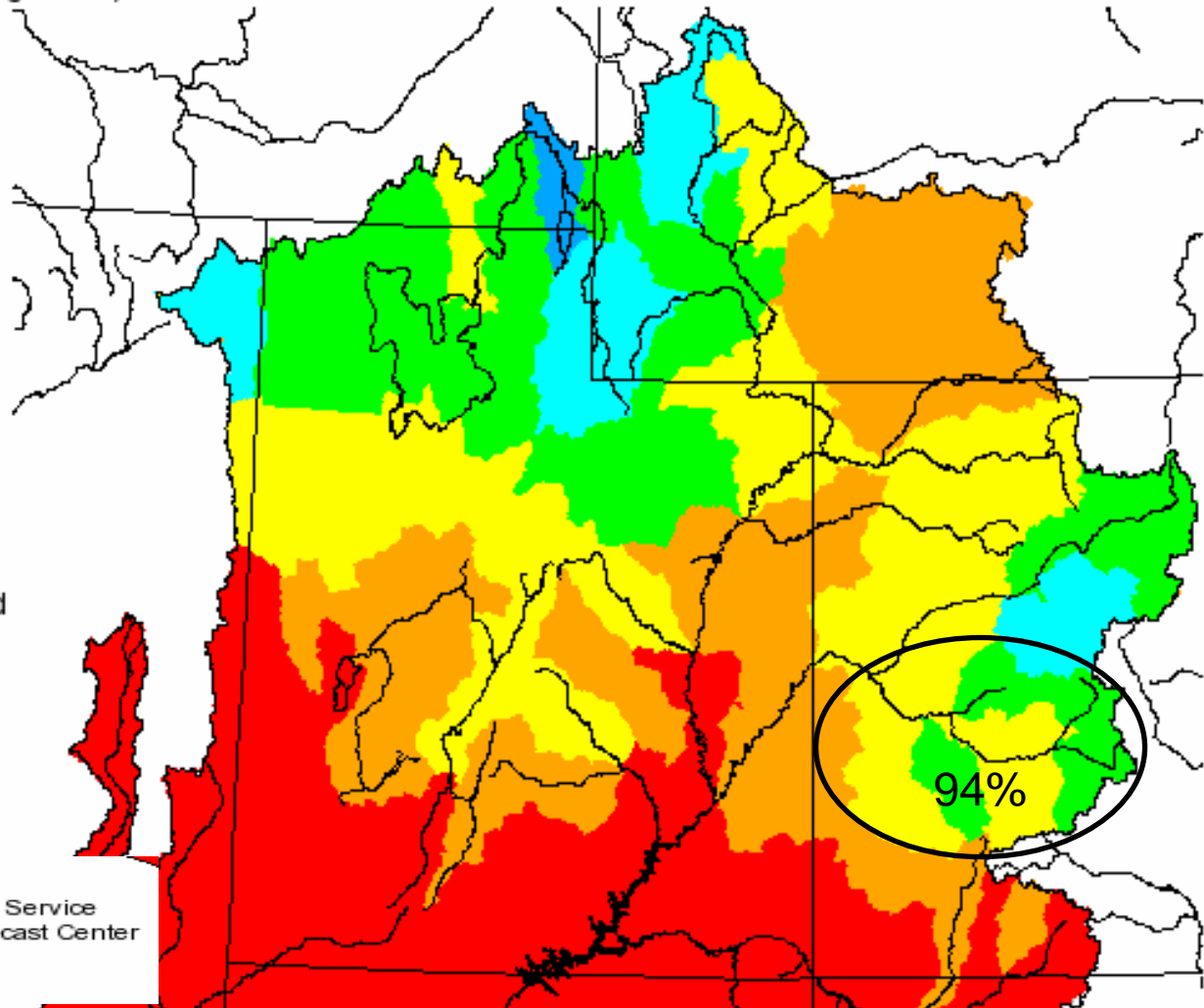
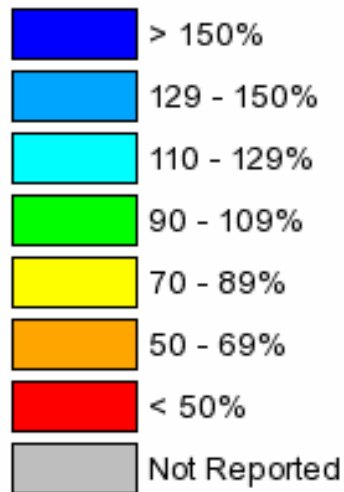


Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

Monthly Precipitation for November 2006

(Averaged by Hydrologic Unit)

% Average

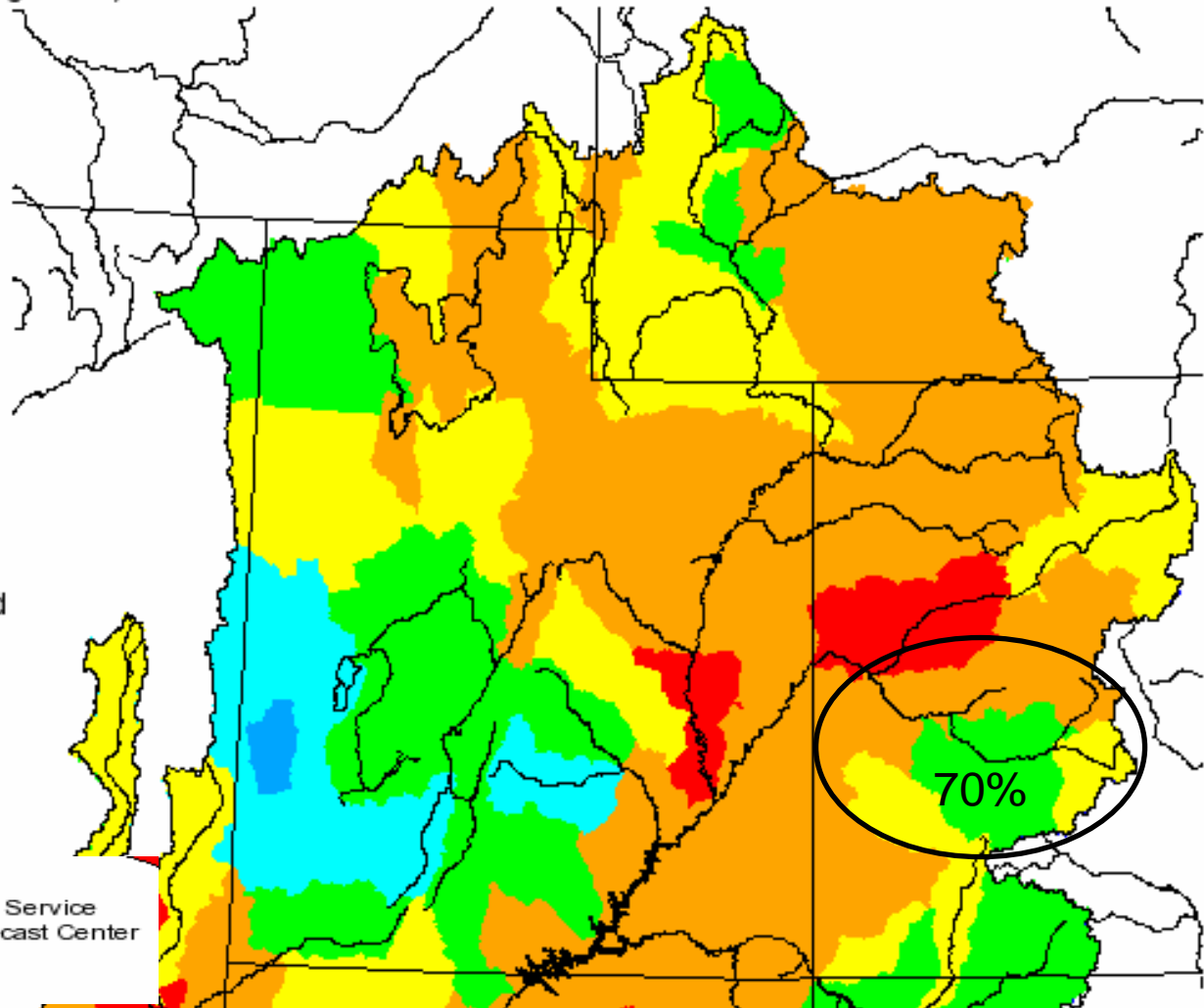
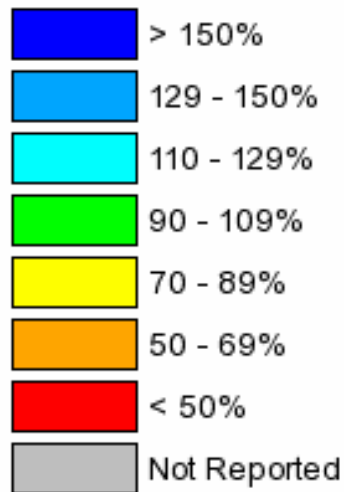


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Monthly Precipitation for December 2006

(Averaged by Hydrologic Unit)

% Average

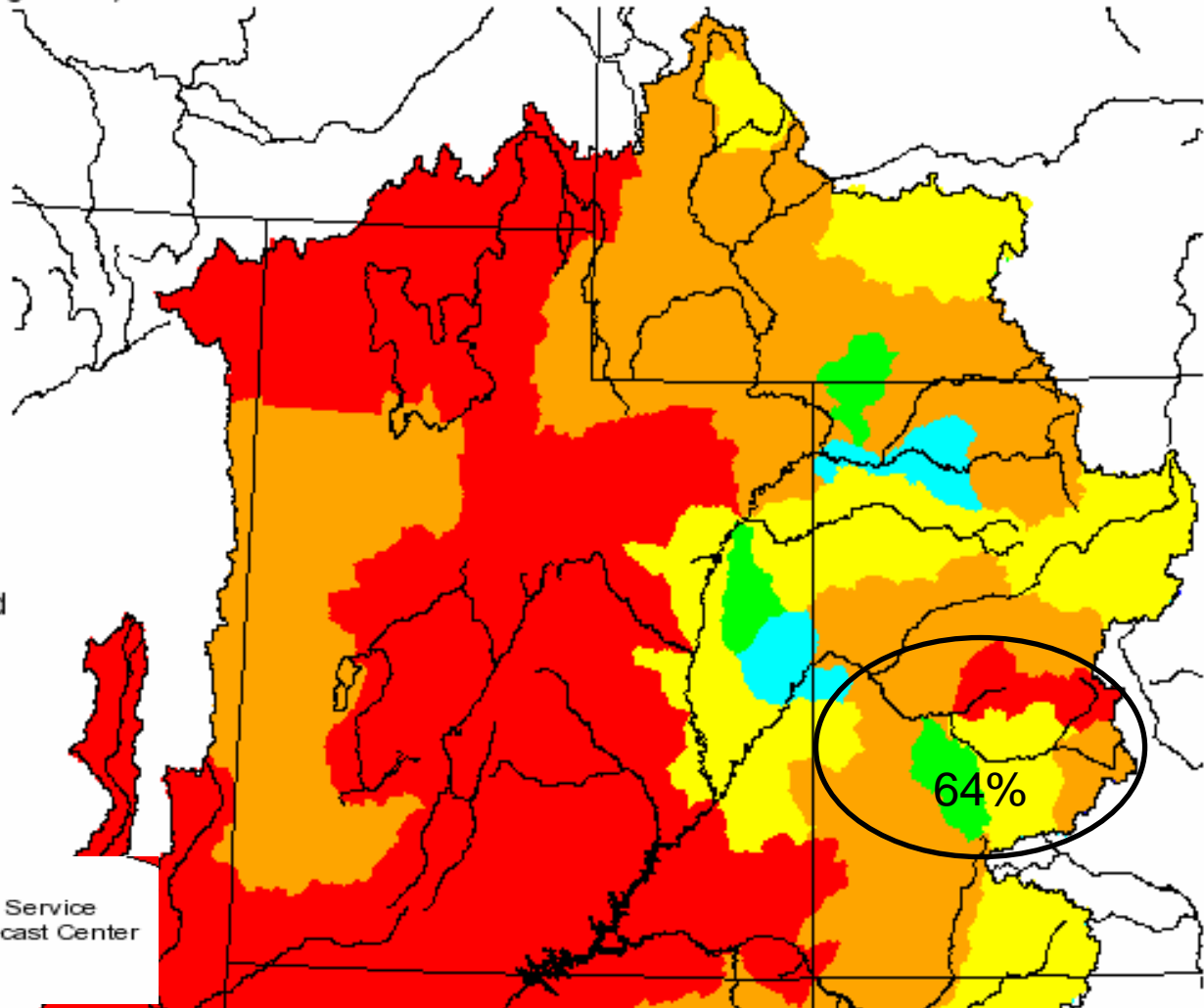
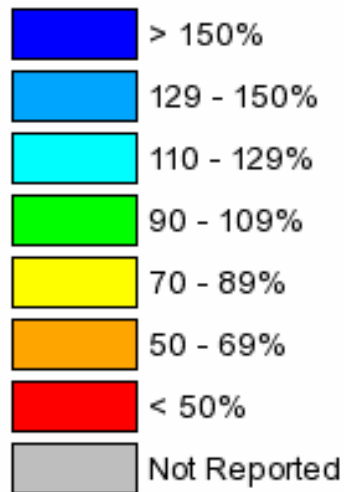


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Monthly Precipitation for January 2007

(Averaged by Hydrologic Unit)

% Average

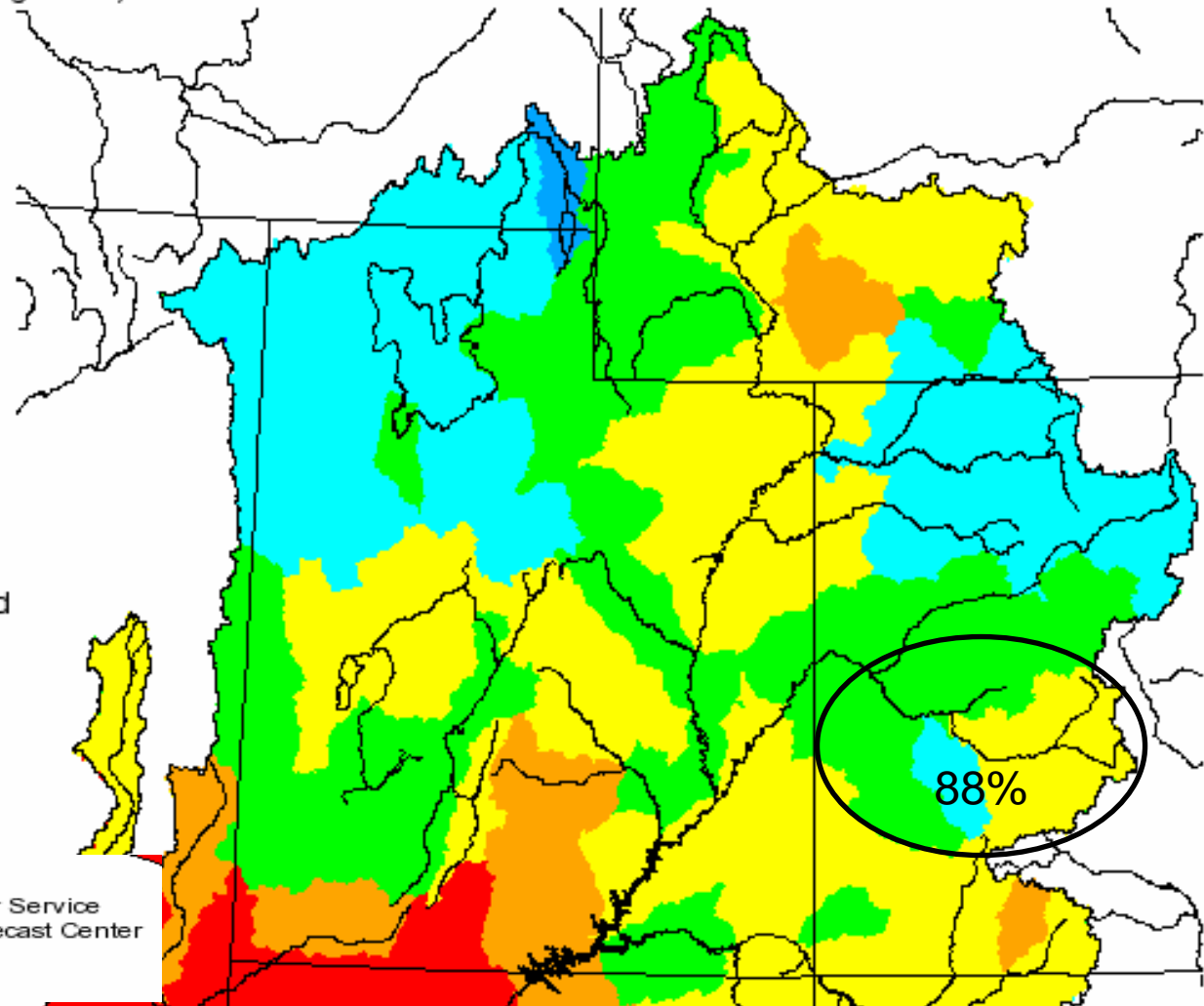
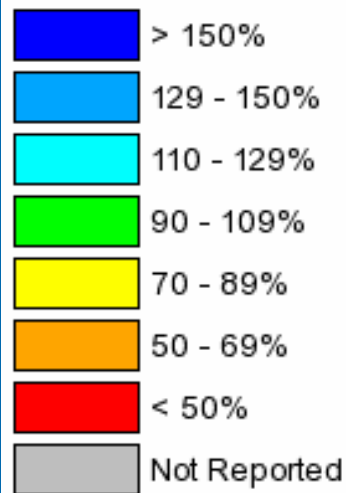


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Monthly Precipitation for February 2007

(Averaged by Hydrologic Unit)

% Average

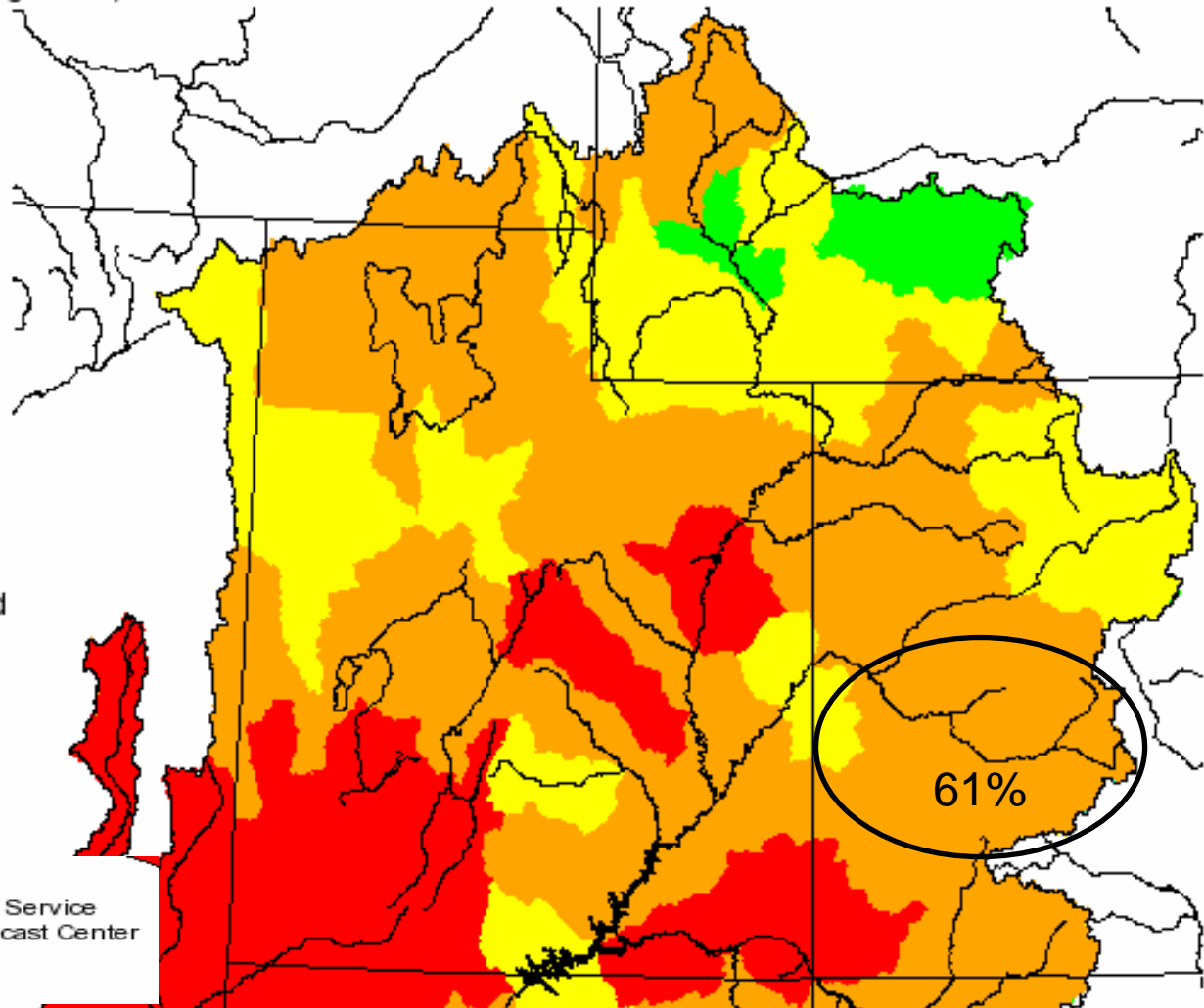
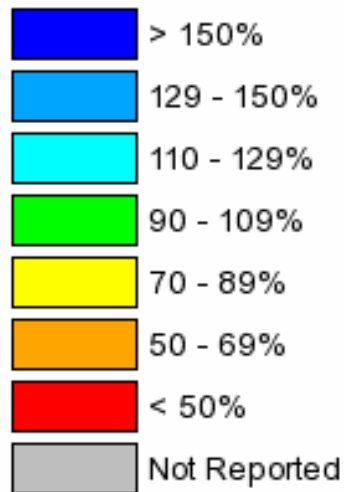


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Monthly Precipitation for March 2007

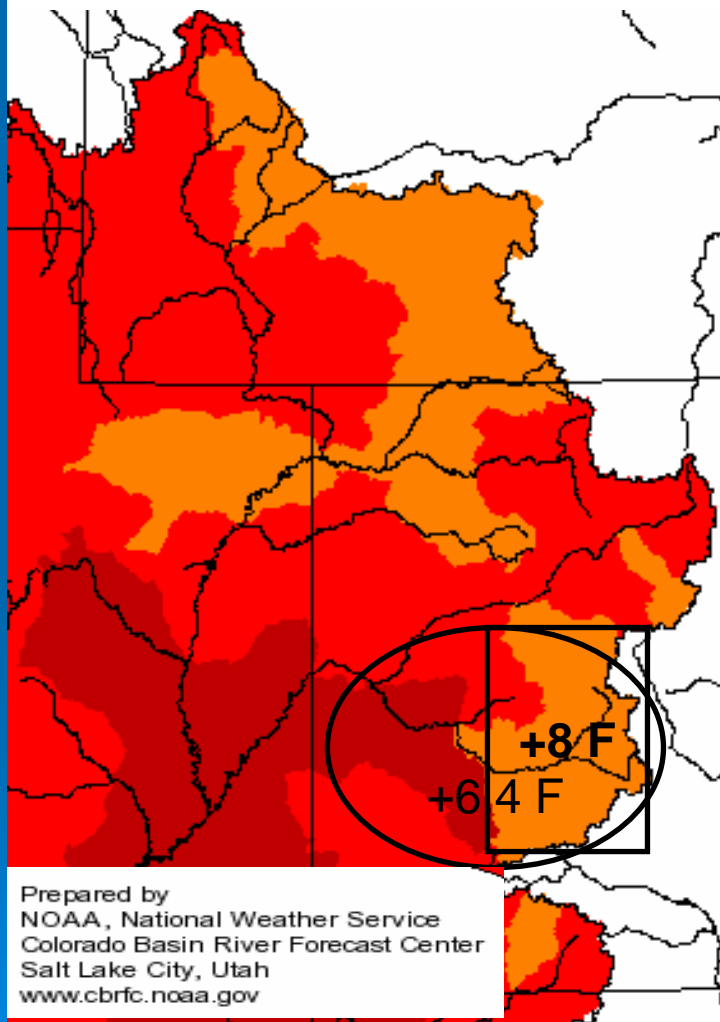
(Averaged by Hydrologic Unit)

% Average

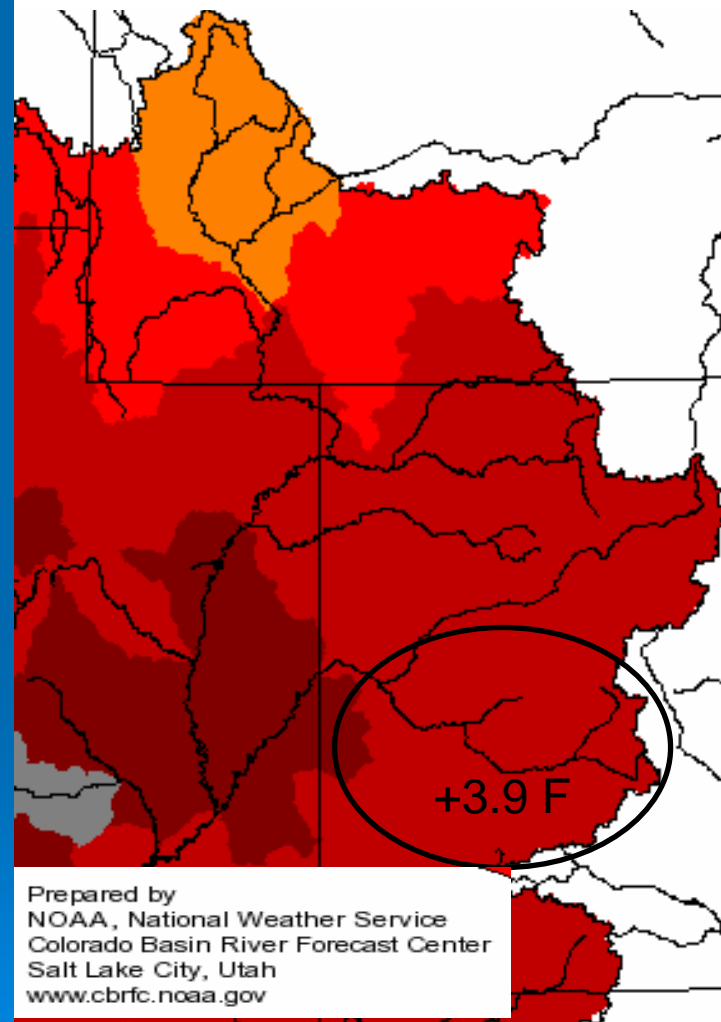


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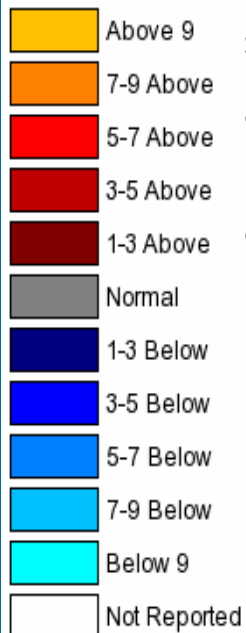
Monthly Minimum Temperature Deviation for March 2007



Monthly Maximum Temperature Deviation for March 2007



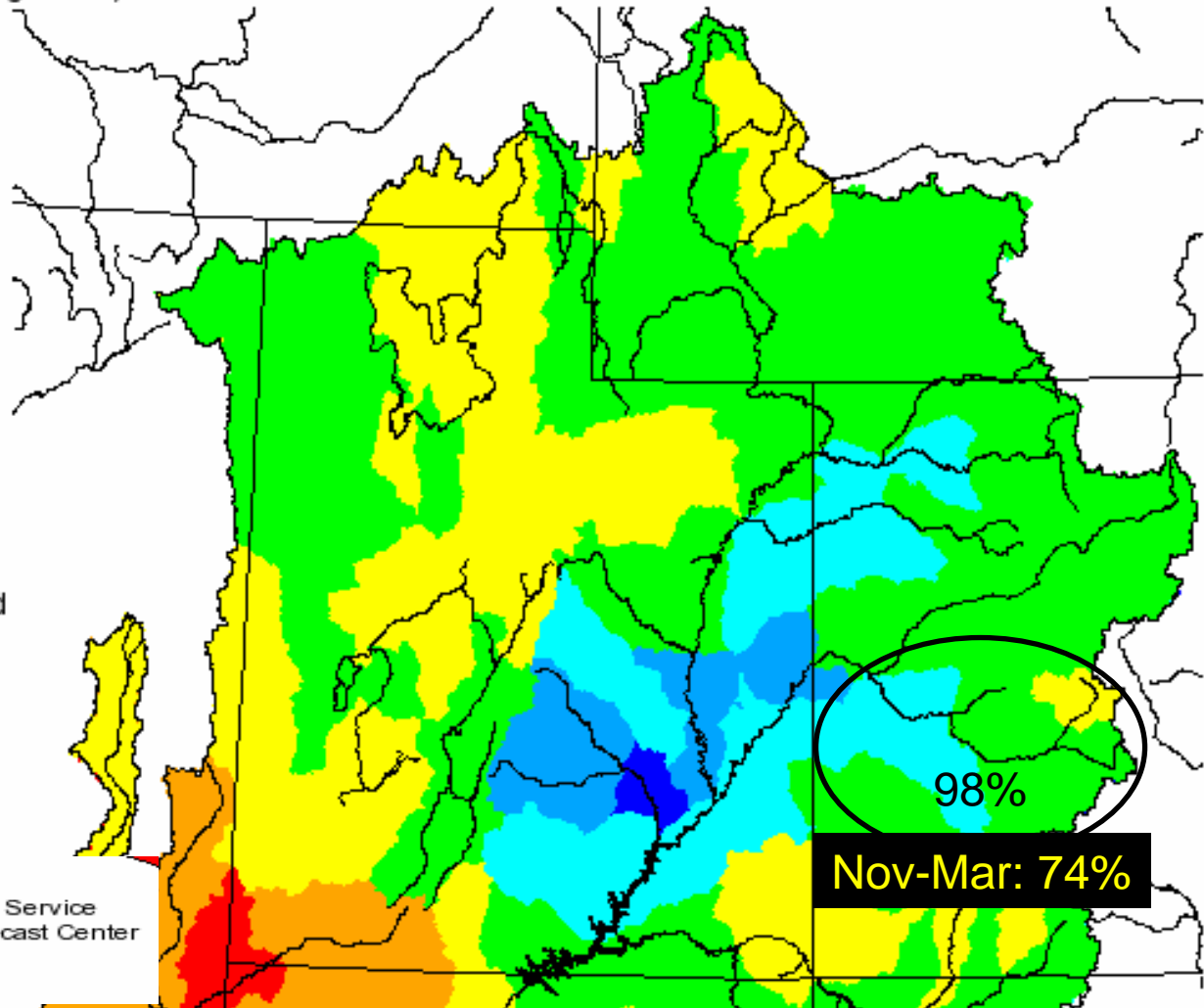
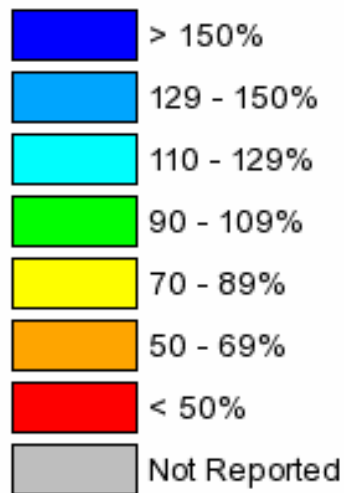
Degrees (F)



Seasonal Precipitation, October 2006 - March 2007

(Averaged by Hydrologic Unit)

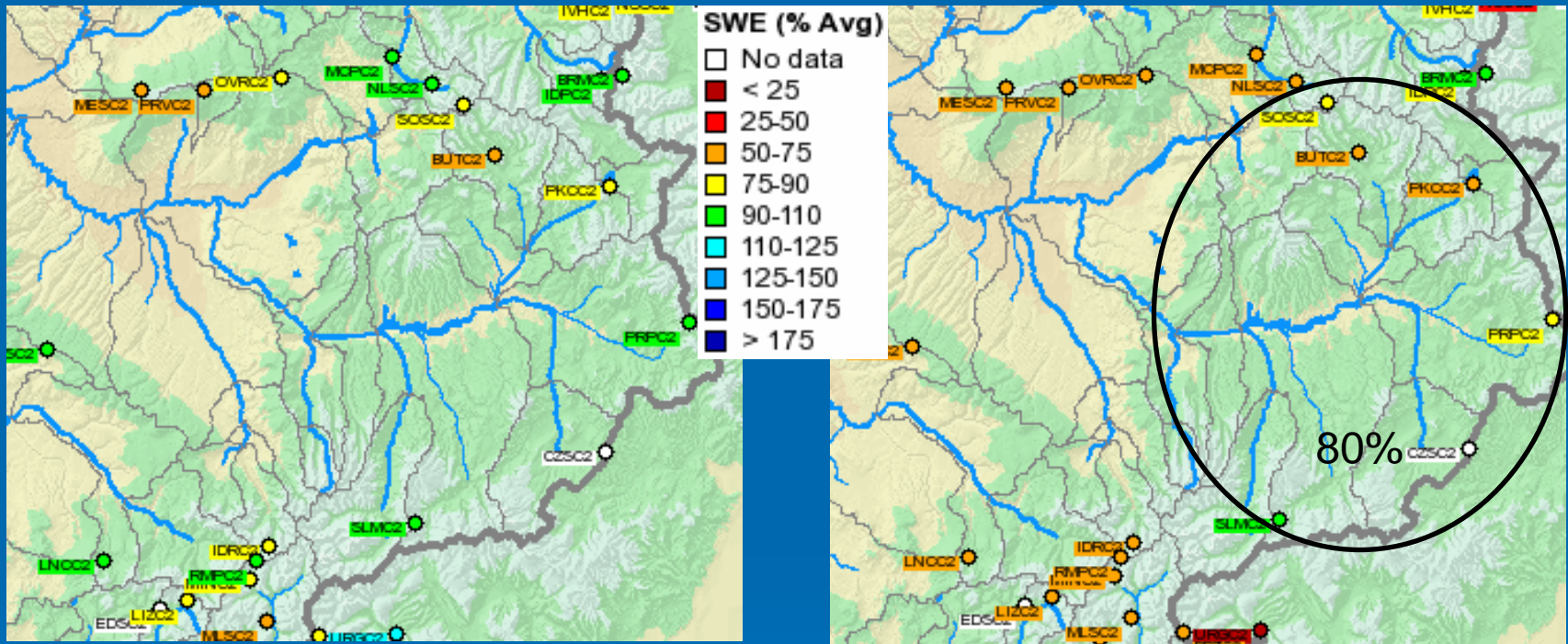
% Average



Prepared by
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Snow Water Equivalent as of March 1, 2007

Snow Water Equivalent as of April 1, 2007

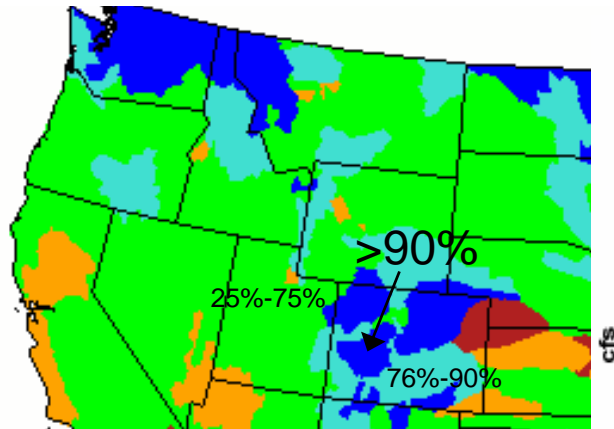


Gunnison Basin total – 85% avg

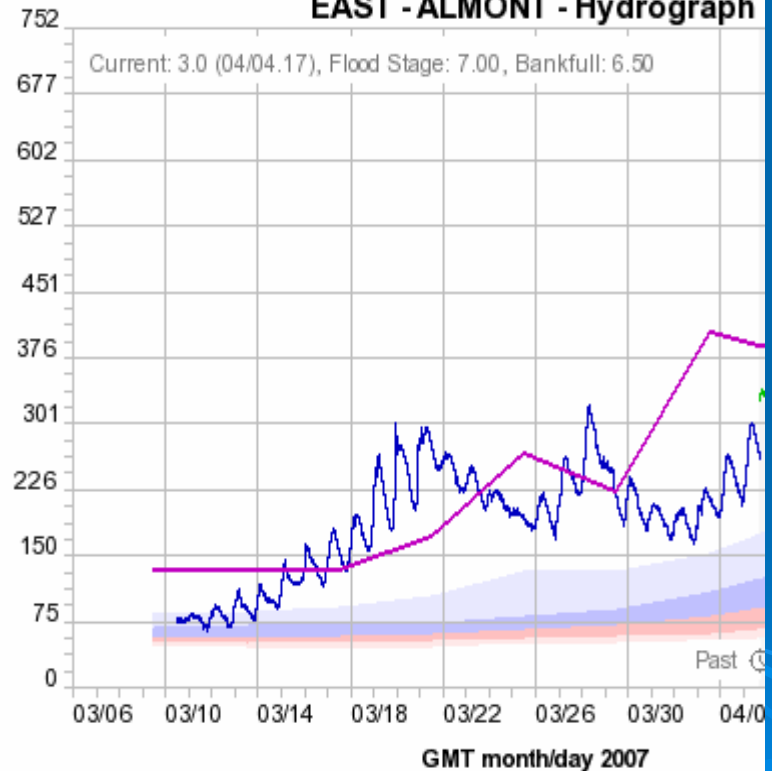
Gunnison Basin total – 72% avg

March Observed Streamflow

Monthly Average Streamflow Compared to Percentiles of Historical Streamflow for March 2007



Colorado Basin River Forecast Center
EAST - ALMONT - Hydrograph



PROVISIONAL MARCH VOLUMES (KAF)

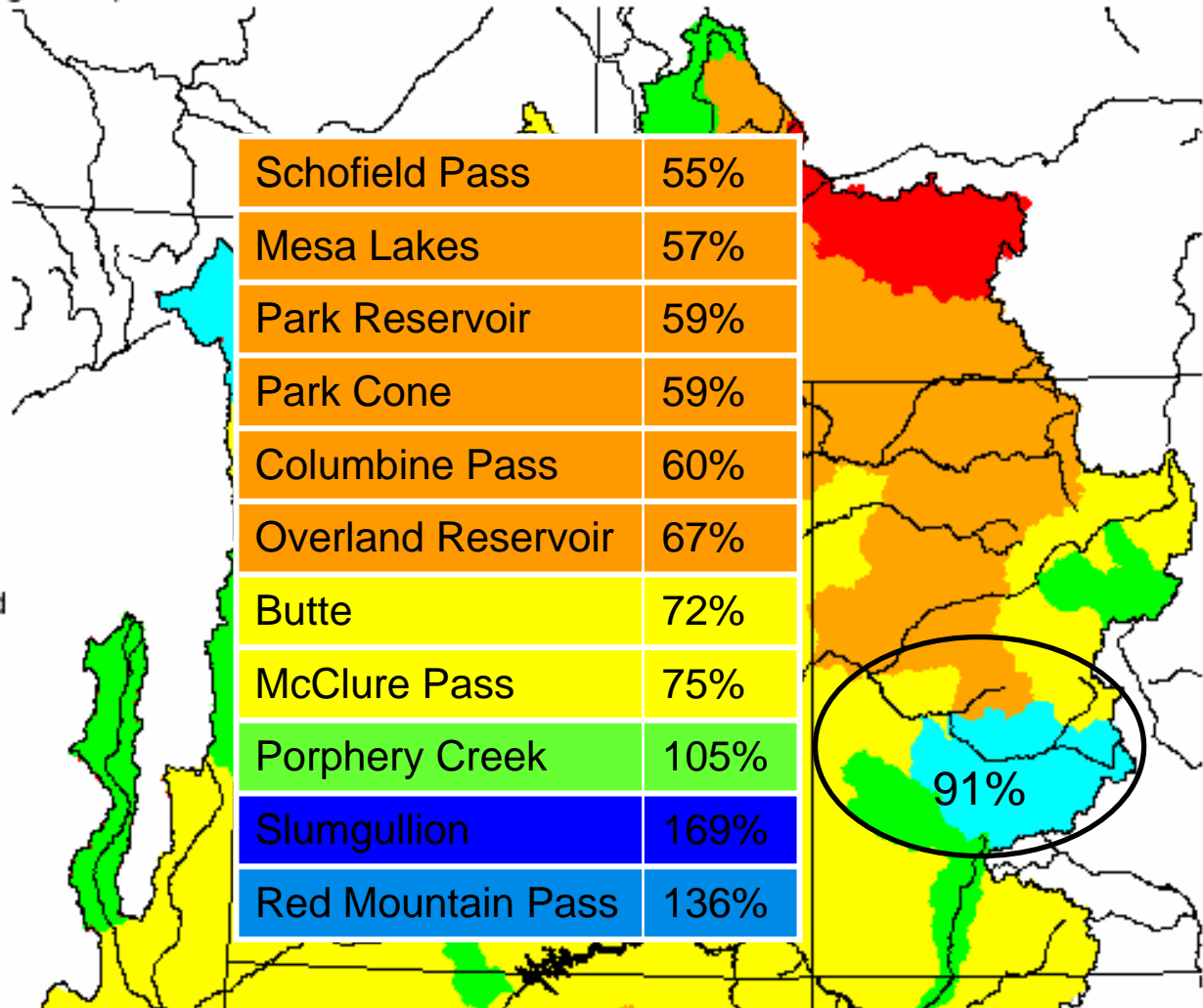
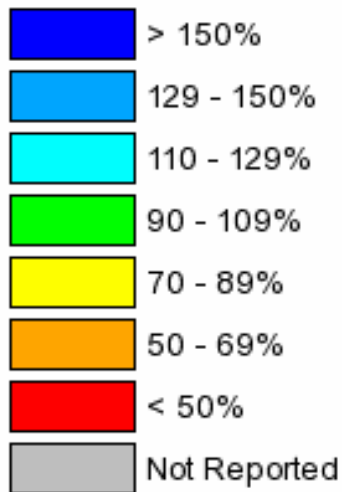
| | 2007 | RECORD (nyrs) | |
|-----------------------------------|-------------|---------------|------------------|
| Taylor Park Res Inflow | 6.44 | 6.05 | 1985 (50) |
| East River at Almont | 9.0e | 8.4 | 1986 (84) |
| Gunnison R nr Gunnison (natural) | 23.4e | 22.4 | 1986 (63) |
| Blue Mesa Res Inflow (natural) | 55.2 | 55.3 | 1971 (37) |
| Gunnison R nr Grand Jcn (natural) | 177 | 158 | 1986 (91) |

Observed — Daily Maxima —
Historical Exceedance Probability (USGS): 90-75% 75-50% 50-25%

Monthly Precipitation for April 2007

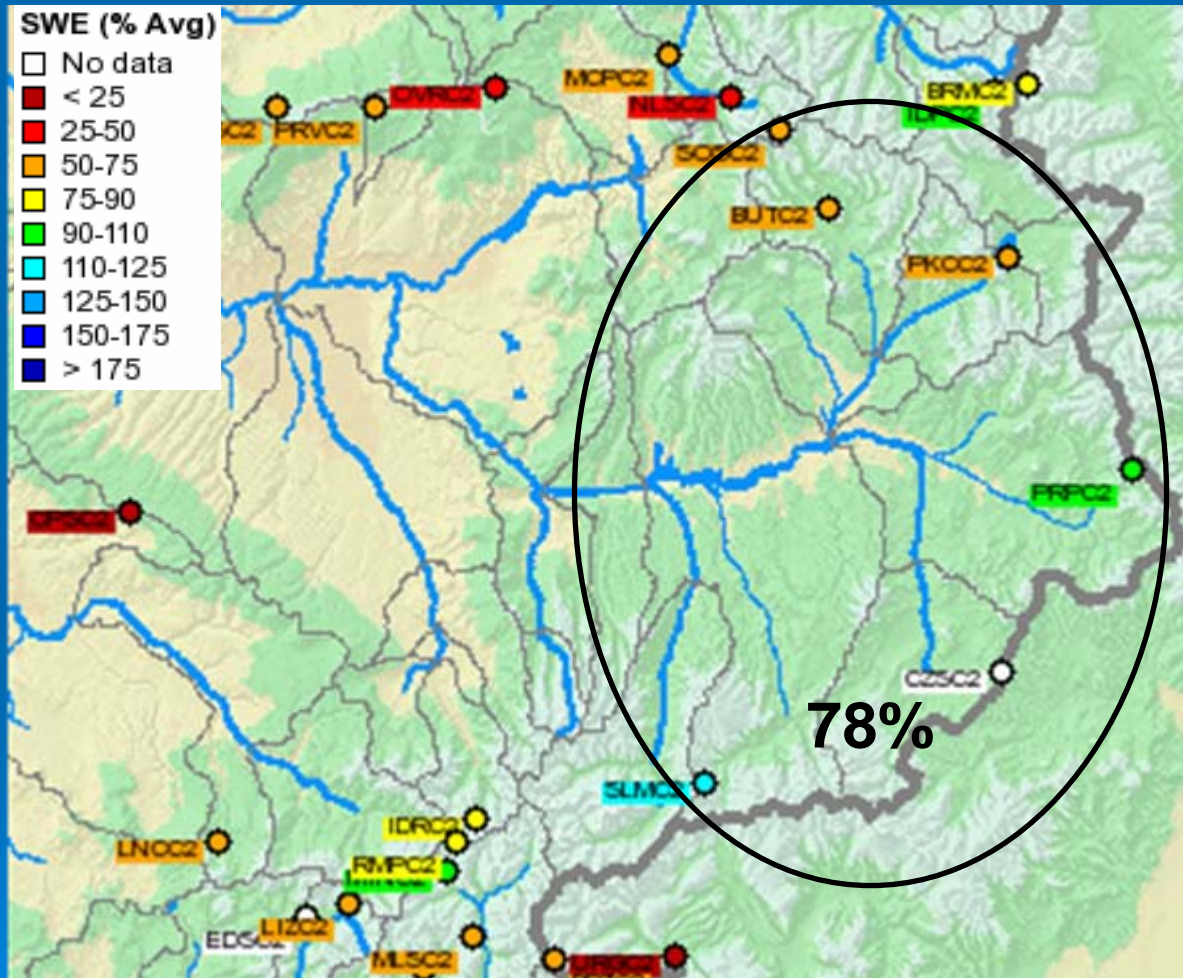
(Averaged by Hydrologic Unit)

% Average



| | |
|--------------------|------|
| Schofield Pass | 55% |
| Mesa Lakes | 57% |
| Park Reservoir | 59% |
| Park Cone | 59% |
| Columbine Pass | 60% |
| Overland Reservoir | 67% |
| Butte | 72% |
| McClure Pass | 75% |
| Porphery Creek | 105% |
| Slumgullion | 169% |
| Red Mountain Pass | 136% |

SWE as of April 25

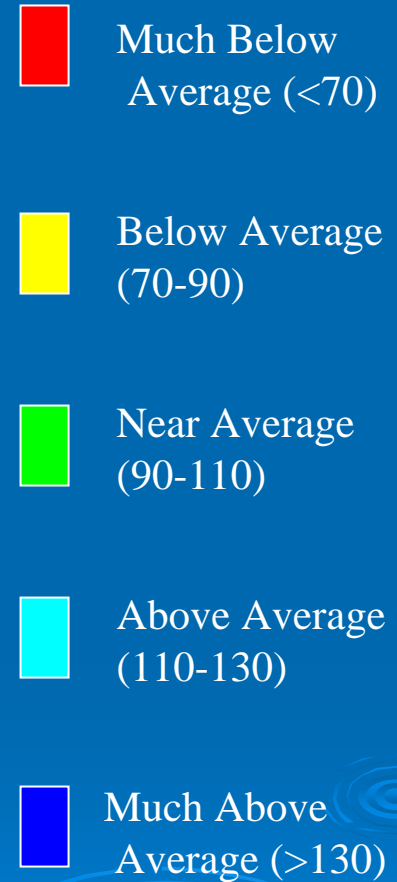
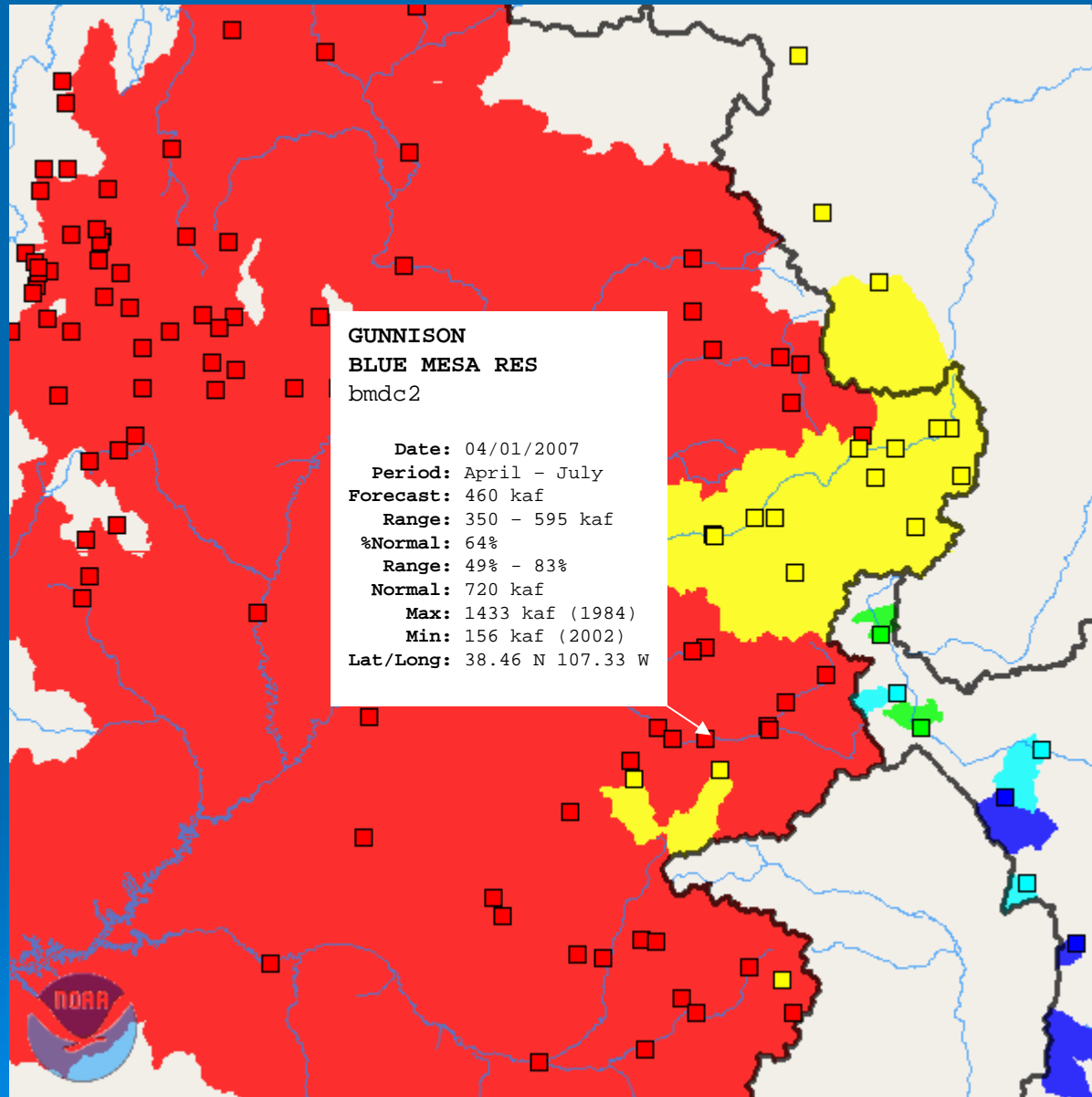


An aerial photograph of a dam on the Gunnison River. The river flows through a deep, narrow canyon with steep, rocky walls. The dam is a concrete structure with water cascading over it. In the background, there are rolling hills and a winding road. The sky is clear and blue.

Gunnison River Basin

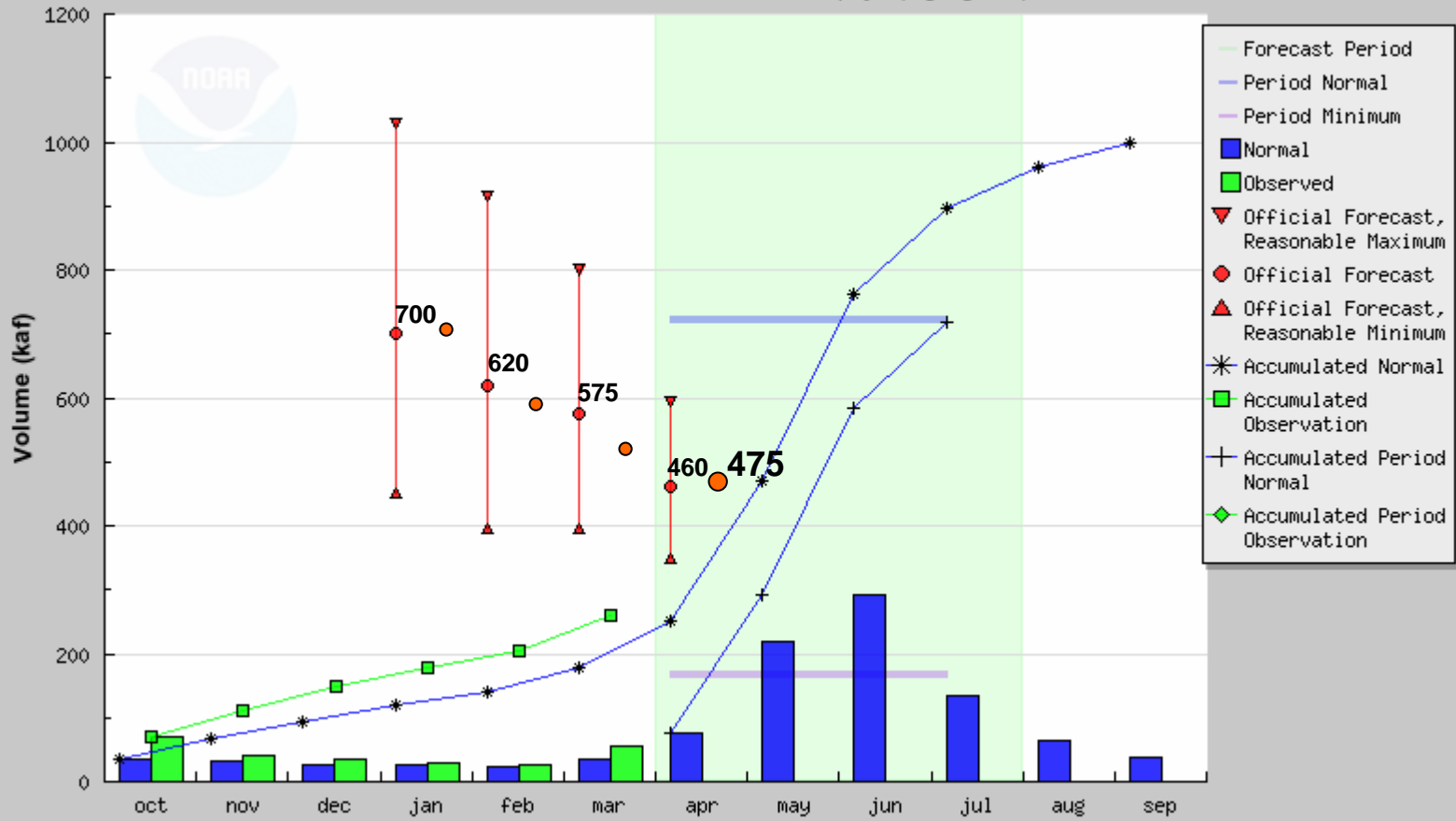
Water Supply Forecasts

Water Supply Forecasts as of April 1, 2007



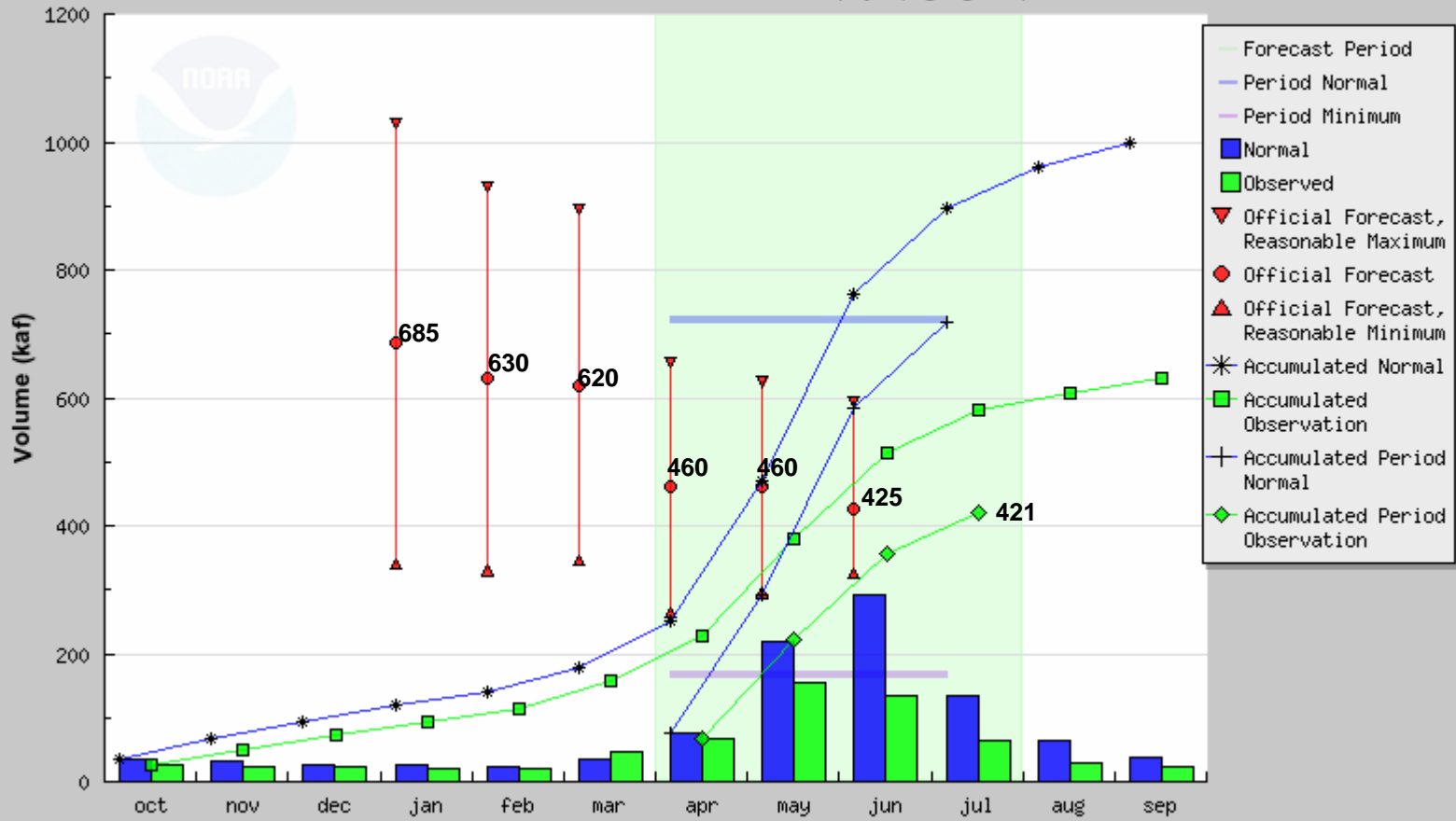
GUNNISON - BLUE MESA RES (BMDC2)

Water Year 2007, Forecast Period apr-jul (highlighted)

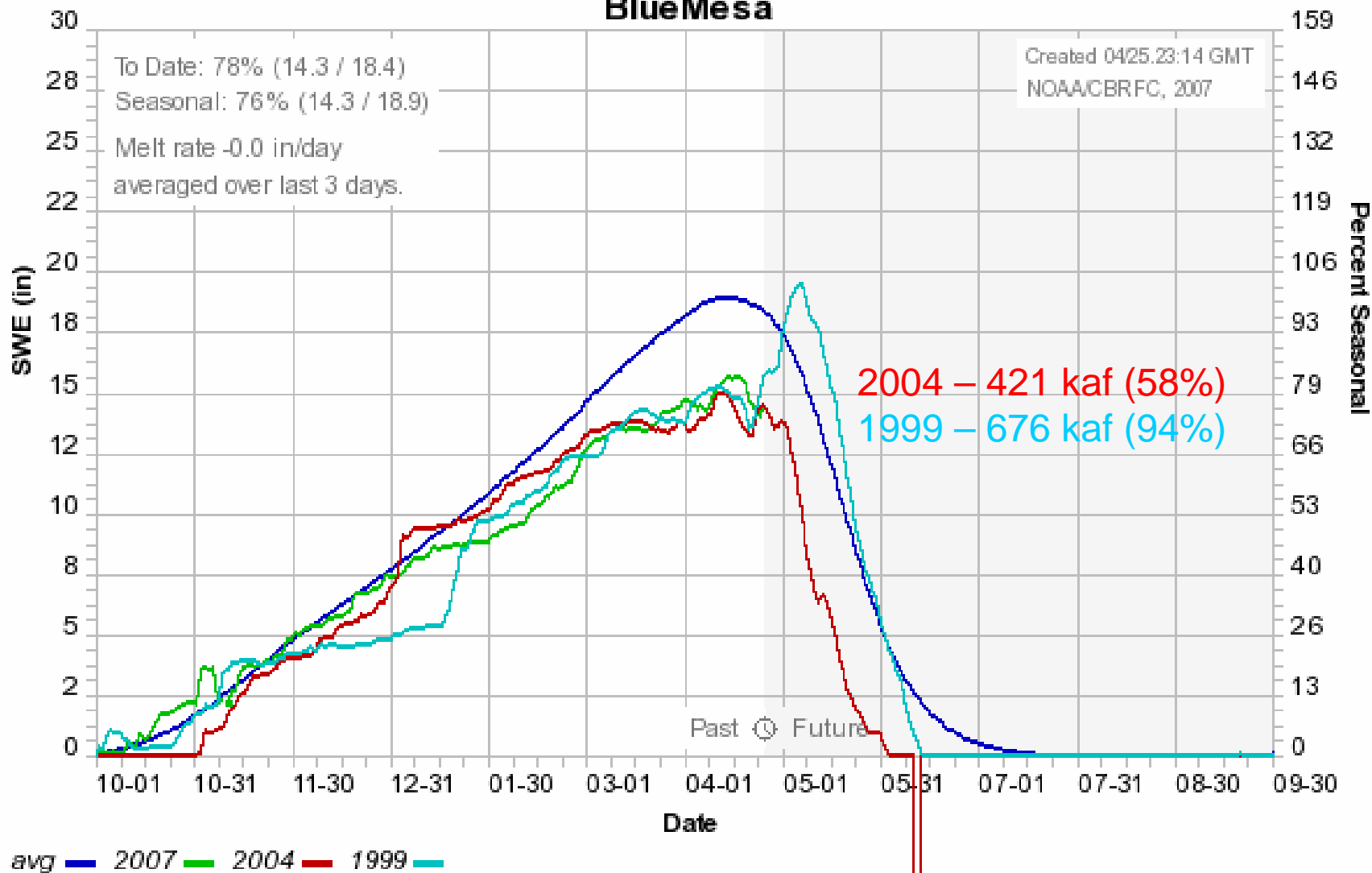


GUNNISON - BLUE MESA RES (BMDC2)

Water Year 2004, Forecast Period apr-jul (highlighted)

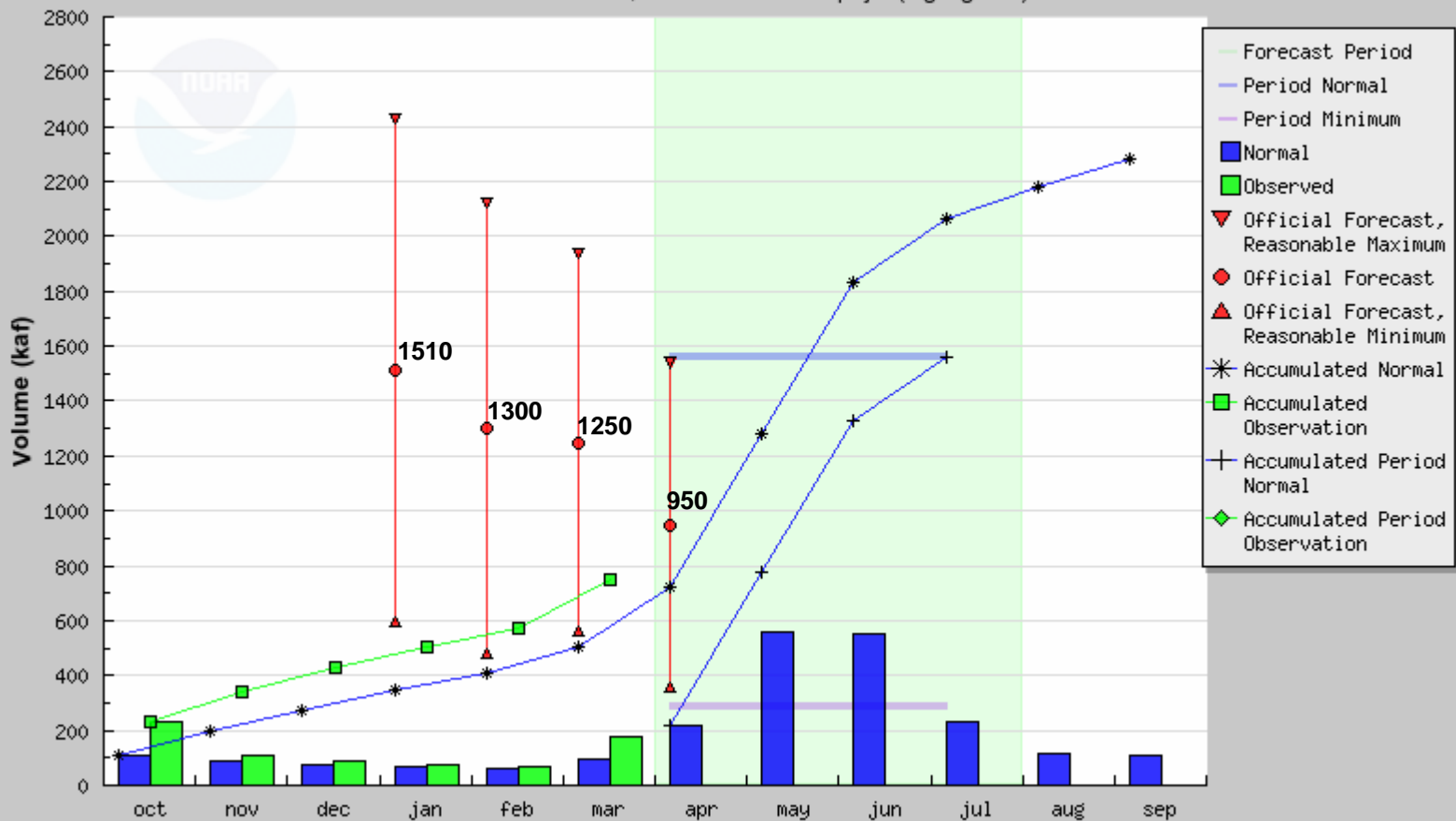


Colorado Basin River Forecast Center Blue Mesa

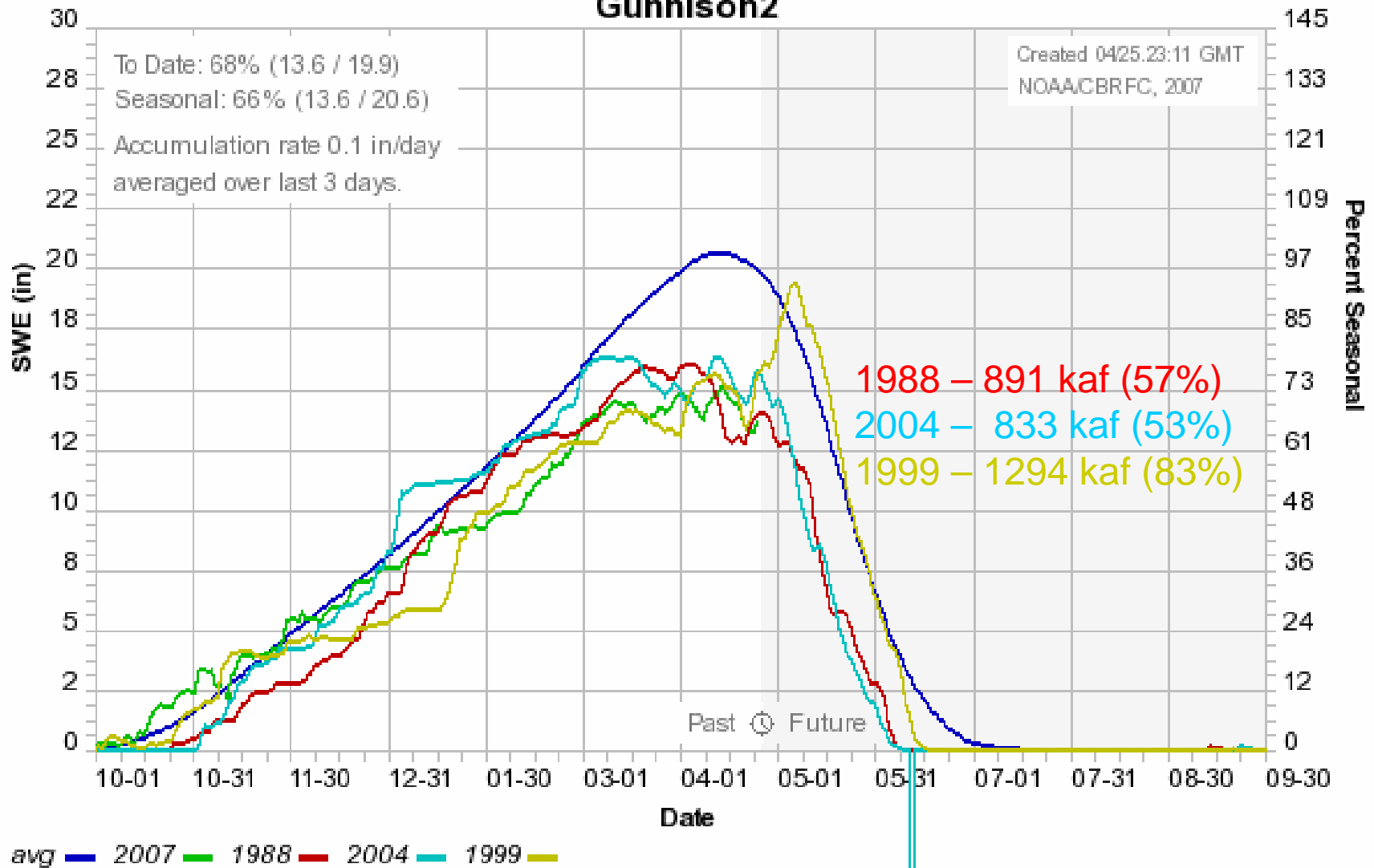


GUNNISON - GRAND JUNCTION, NR (GJNC2)

Water Year 2007, Forecast Period apr-jul (highlighted)



Colorado Basin River Forecast Center Gunnison2



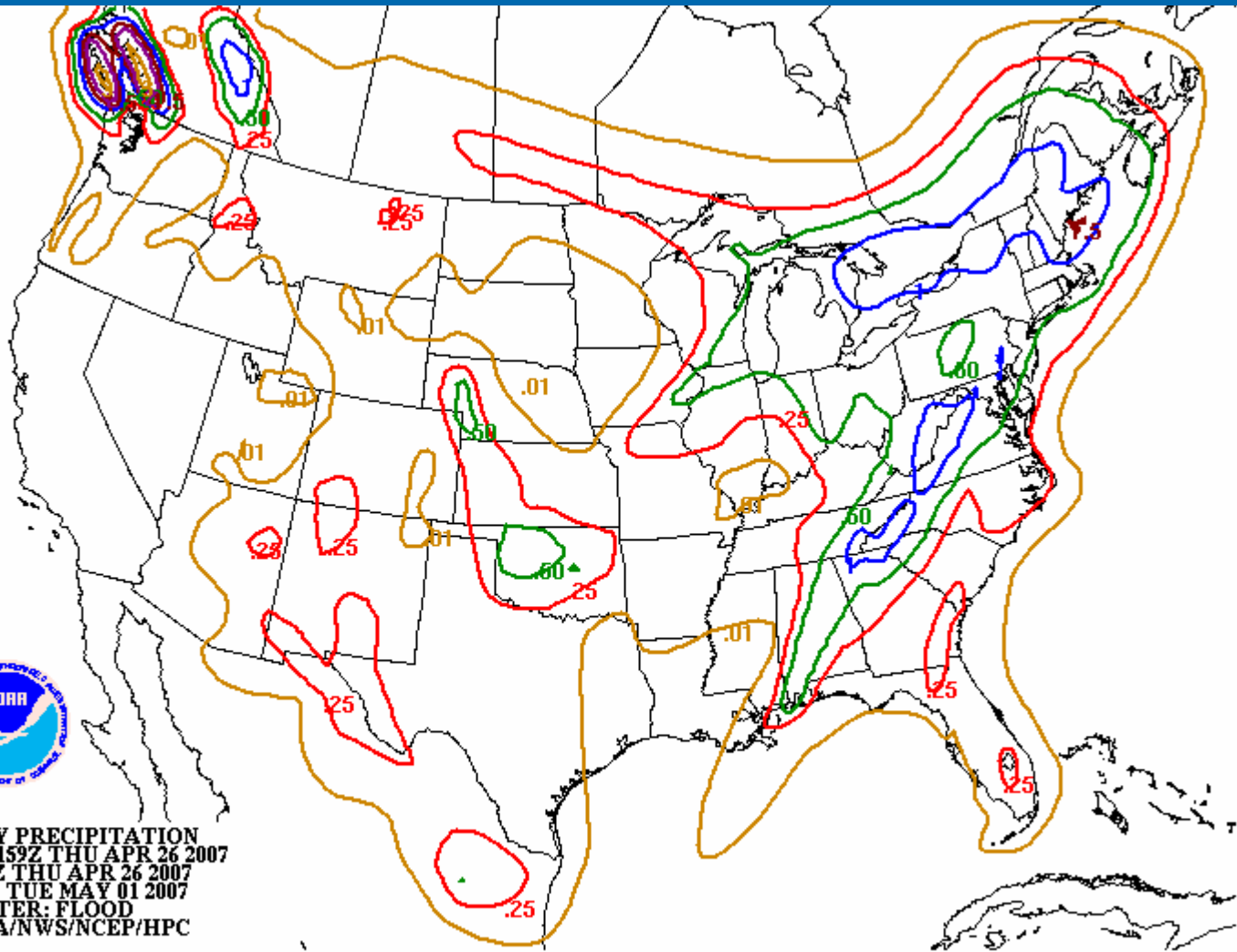
Gunnison River Basin

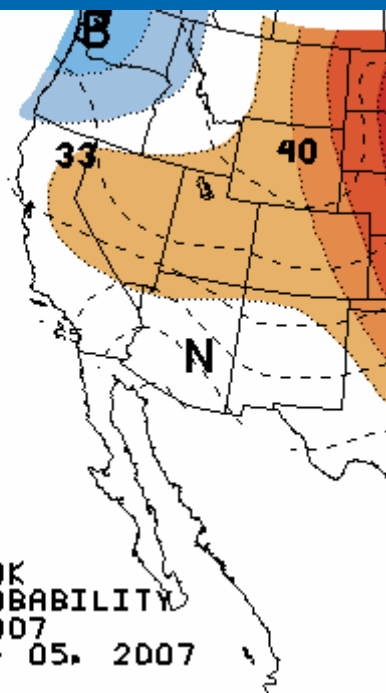
Weather and Climate Forecasts



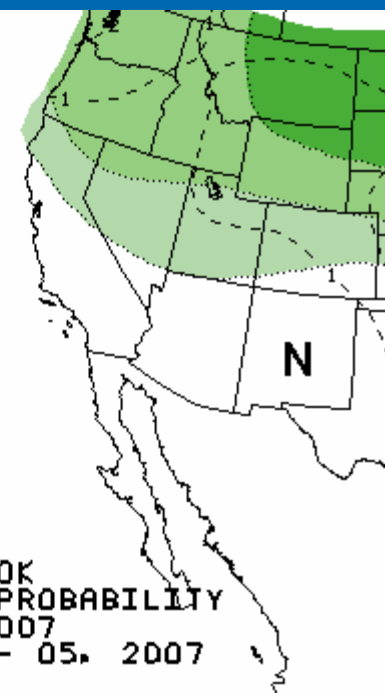


HPC 5-DAY PRECIPITATION
ISSUED: 1159Z THU APR 26 2007
VALID: 12Z THU APR 26 2007
THRU: 12Z TUE MAY 01 2007
FORECASTER: FLOOD
DOC/NOAA/NWS/NCEP/HPC

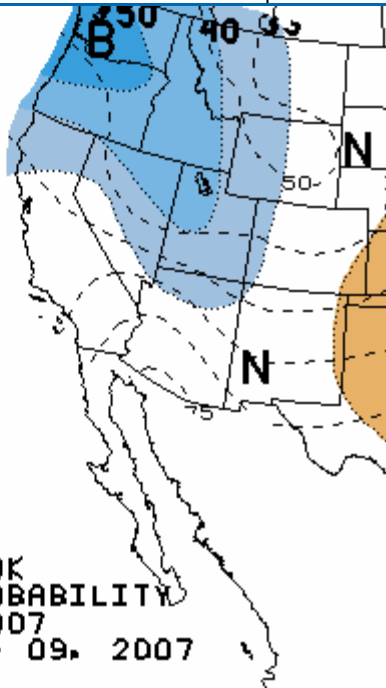




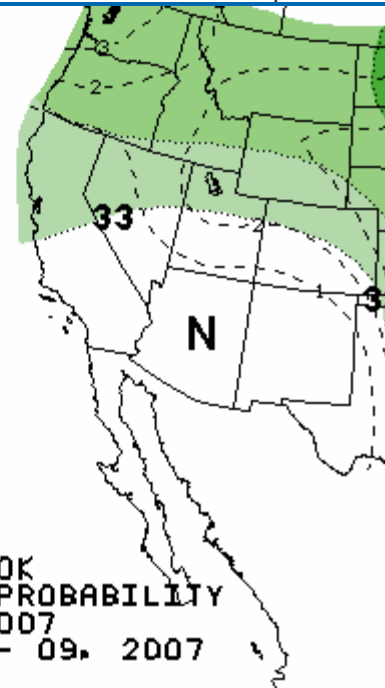
6-10 DAY OUTLOOK
 TEMPERATURE PROBABILITY
 MADE 25 APR 2007
 VALID MAY 01 - 05, 2007



6-10 DAY OUTLOOK
 PRECIPITATION PROBABILITY
 MADE 25 APR 2007
 VALID MAY 01 - 05, 2007



8-14 DAY OUTLOOK
 TEMPERATURE PROBABILITY
 MADE 25 APR 2007
 VALID MAY 03 - 09, 2007



8-14 DAY OUTLOOK
 PRECIPITATION PROBABILITY
 MADE 25 APR 2007
 VALID MAY 03 - 09, 2007

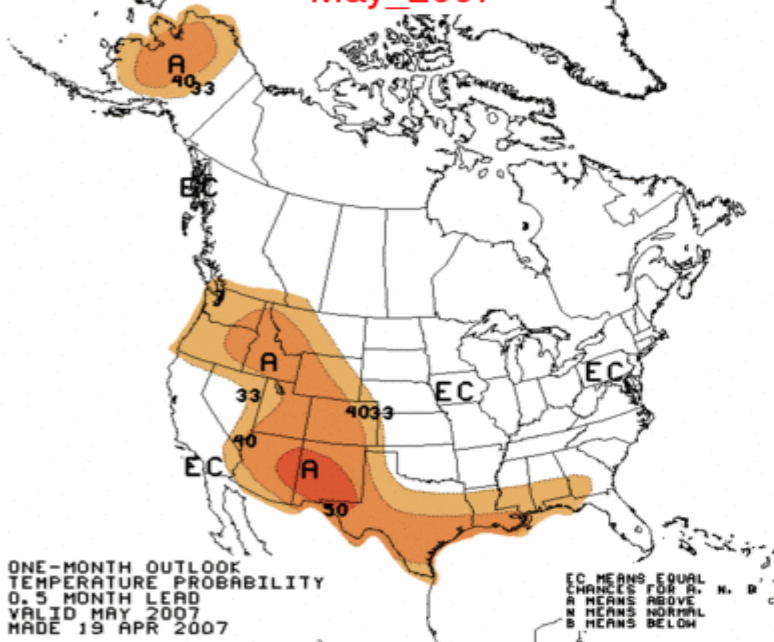
Weekly ENSO Update Summary

Prepared by CPC / NCEP

April 23, 2007

- The tropical Pacific is currently in an ENSO-neutral state.
- SST anomalies remain near-zero in the central equatorial Pacific and below average in the eastern equatorial Pacific.
- A majority of the statistical and coupled model forecasts indicate SST anomalies will become increasingly negative during the next 3 months.
- Subsurface conditions and recent CFS forecasts indicate a possible transition to La Niña conditions within the next 3 months.

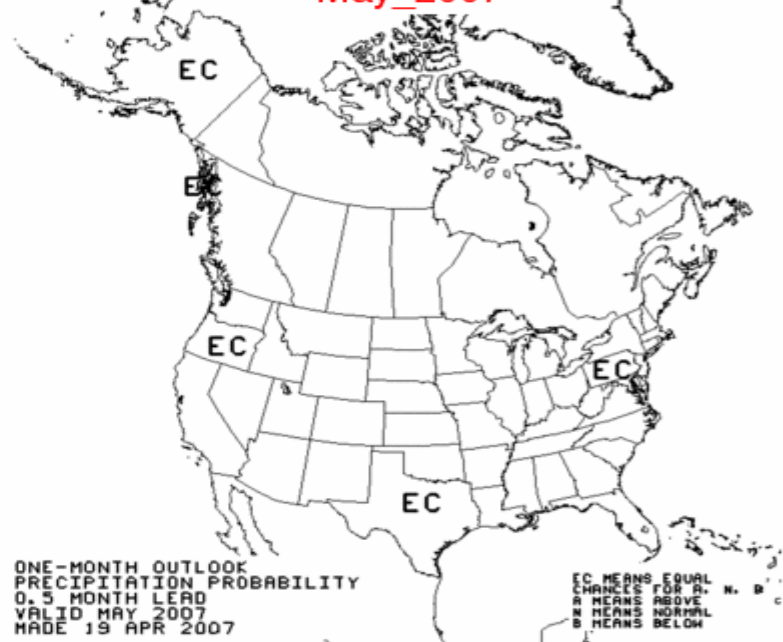
May_2007



ONE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID MAY 2007
MADE 19 APR 2007

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

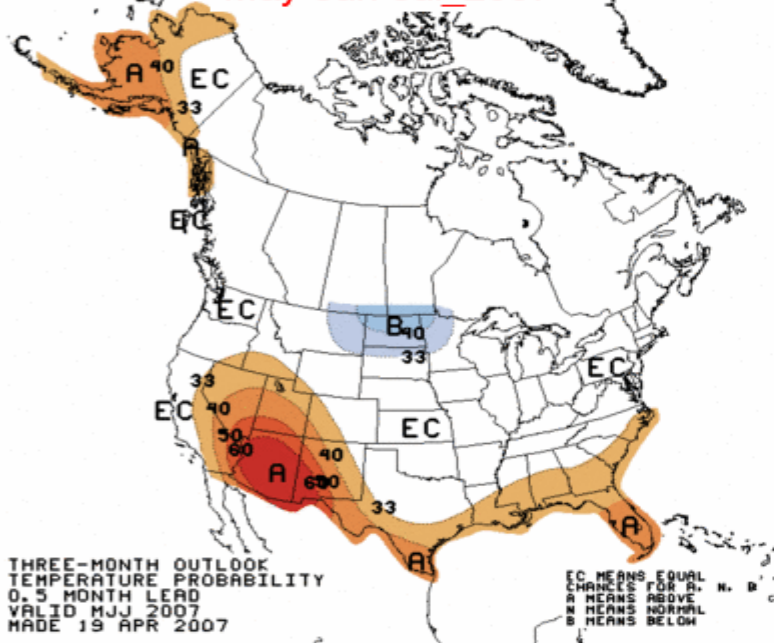
May_2007



ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID MAY 2007
MADE 19 APR 2007

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

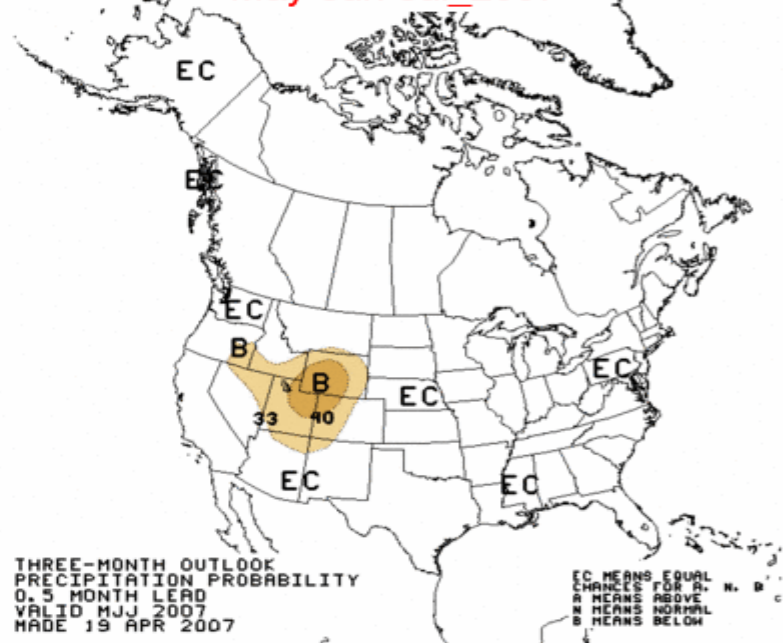
May-Jun-Jul_2007



THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID MJJ 2007
MADE 19 APR 2007

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

May-Jun-Jul_2007



THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID MJJ 2007
MADE 19 APR 2007

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

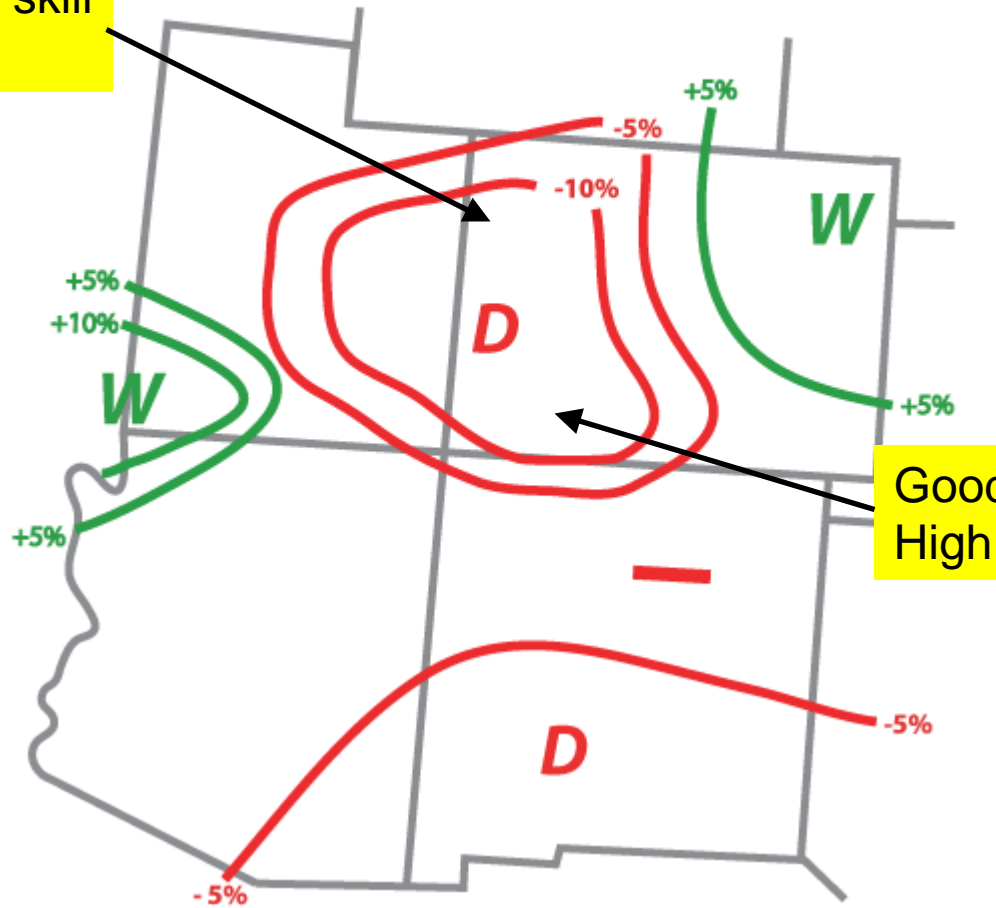


Earth System Research Laboratory

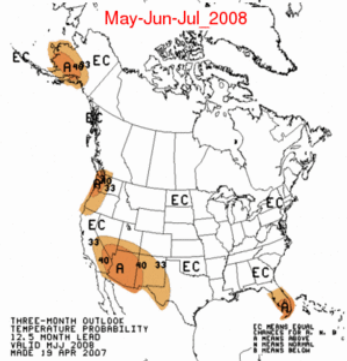
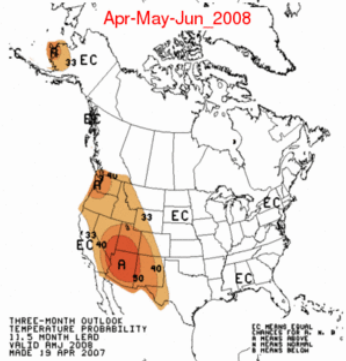
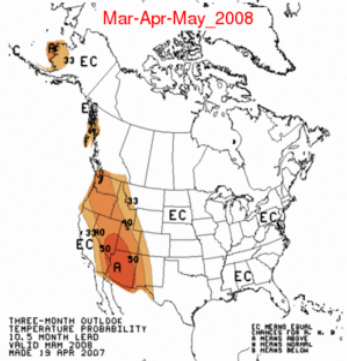
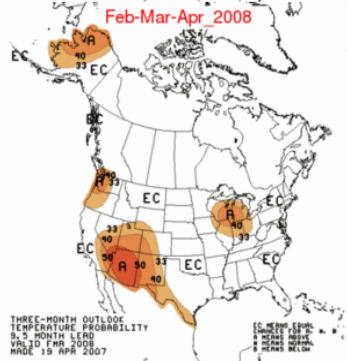
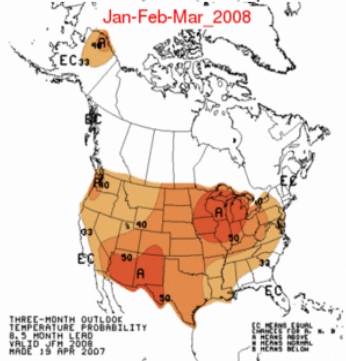
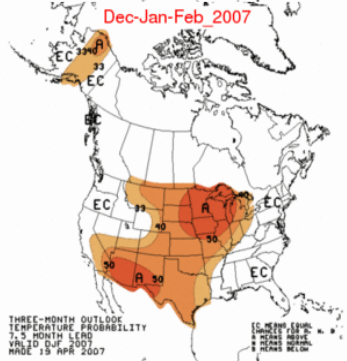
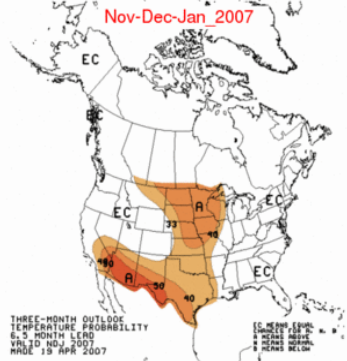
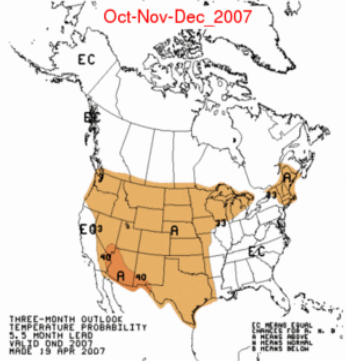
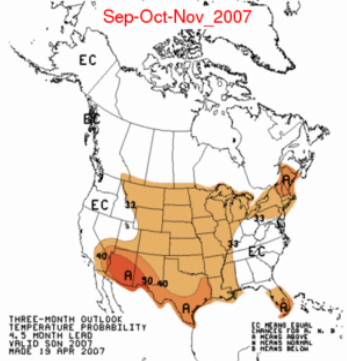
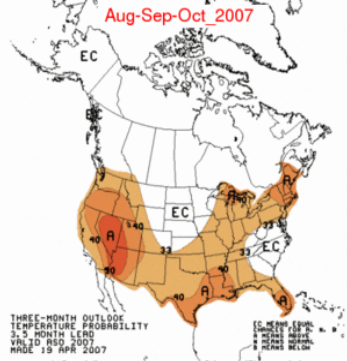
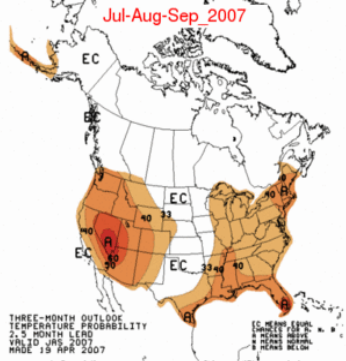
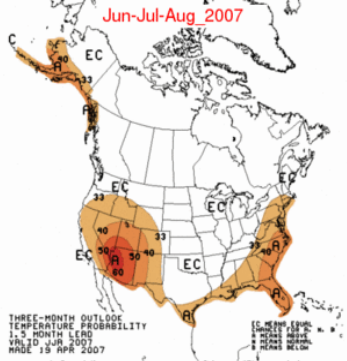
Physical Sciences Division

EXPERIMENTAL PSD PRECIPITATION FORECAST GUIDANCE APR - JUN 2007 (issued April 16, 2007)

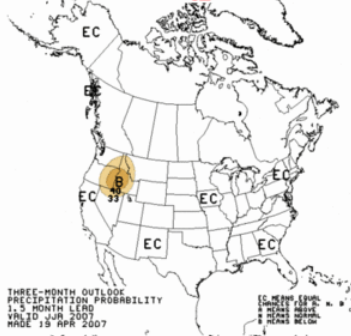
Modest forecast skill
Poor verification



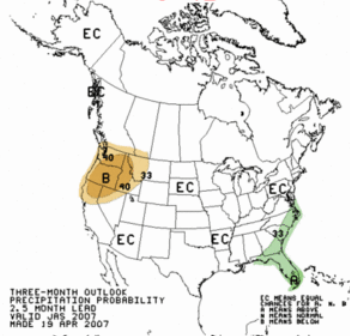
Good forecast skill
High verification



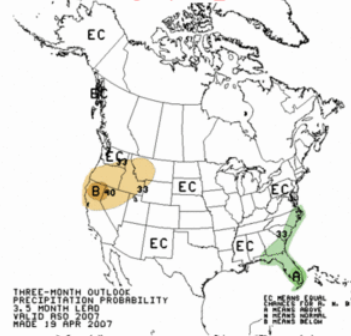
Jun-Jul-Aug_2007



Jul-Aug-Sep_2007



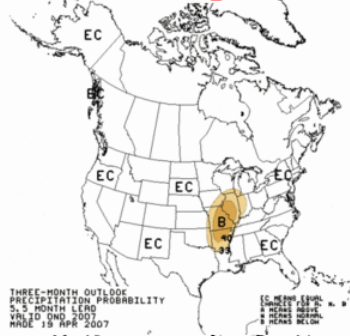
Aug-Sep-Oct_2007



Sep-Oct-Nov_2007



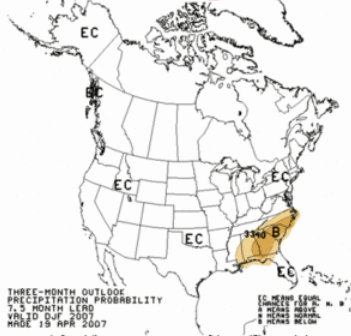
Oct-Nov-Dec_2007



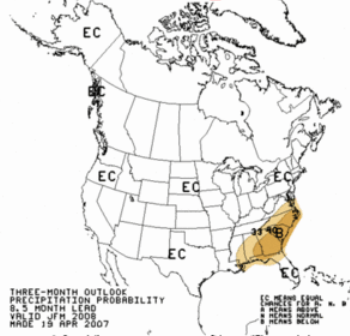
Nov-Dec-Jan_2007



Dec-Jan-Feb_2007



Jan-Feb-Mar_2008



Feb-Mar-Apr_2008



Mar-Apr-May_2008



Apr-May-Jun_2008



May-Jun-Jul_2008

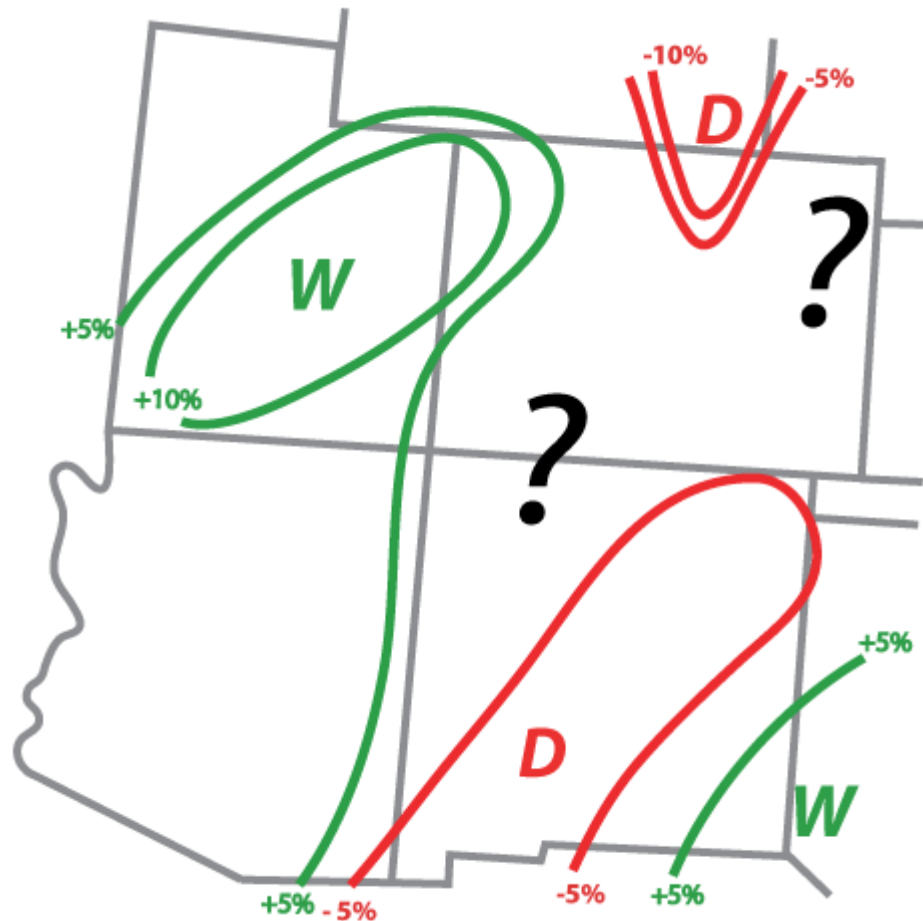




Earth System Research Laboratory

Physical Sciences Division

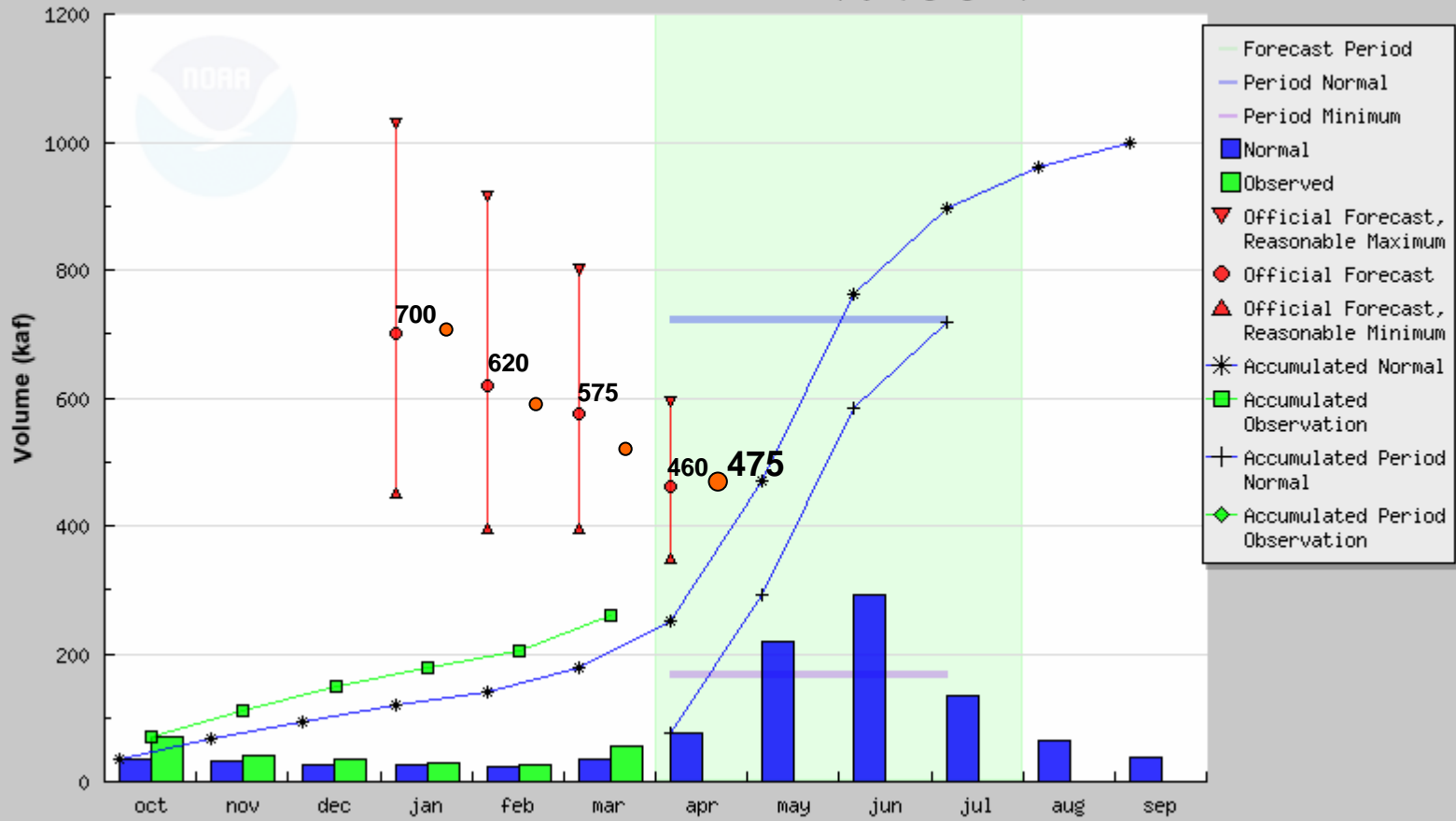
EXPERIMENTAL PSD PRECIPITATION FORECAST GUIDANCE JUL - SEP 2007 (issued April 17, 2007)



provided by Klaus Wolter (<http://www.cdc.noaa.gov/people/klaus.wolter/SWcasts/>)

GUNNISON - BLUE MESA RES (BMDC2)

Water Year 2007, Forecast Period apr-jul (highlighted)





NOAA's National Weather Service Colorado Basin River Forecast Center

News Organization Search

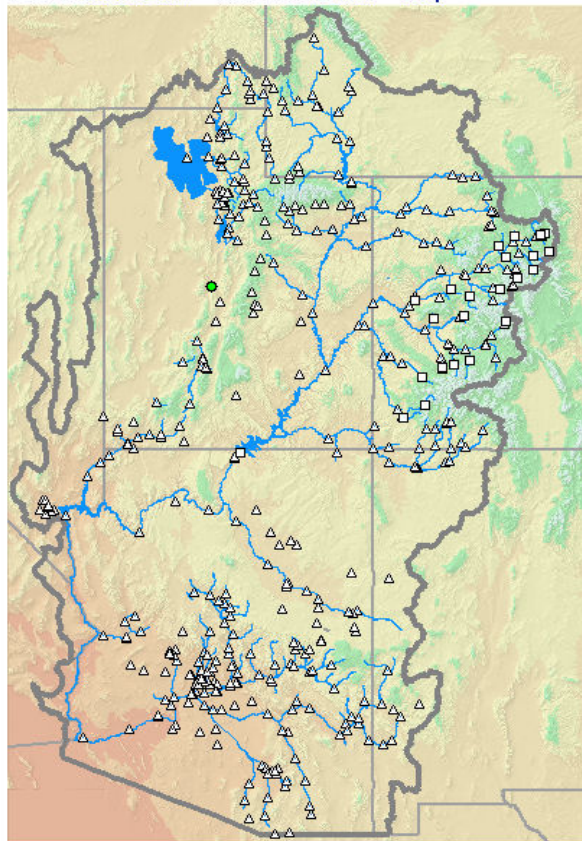
River Forecasts & Data

Forecasts on this web page are not official and should be used only as guidance.
Official warnings and forecasts can be found [here](#).

Legend. Map data updated 10/13/20:12 GMT, 10/13/14:12 MDT. Click map to zoom.

Data Type: [River Forecasts](#) | [Reservoirs](#) | [Recreational](#) | [Snow Conditions](#)

Click to: [Select Zoom](#) [Zoom to: 1x 4x 8x](#) [Help](#)



Legend

Basin Conditions (0-3 days)

- 1 = Normal, 0 = No Data
- 2 = Significant Rise
- 3 = Near Bankfull
- 4 = Above Bankfull
- 5 = Above Flood Stage
- Observed (Solid)
- Simulated (Striped)
- Outlook (beyond 3 days)

Station Types

- AHPS Point
- Forecast Point
- Data Point

Quick Plot

NWS ID

Display Options

- Topography
- States
- RFC
- Rivers
- HSAs
- Basins
- Basins Above Normal
- Data Points
- Forecast Points
- AHPS Points
- Stations Above Normal
- Station Labels

Water

- Schedule
- Operations
- River Forecasts & Data
- River Watches & Warnings
- Internal Forecast Products
- Flood Outlook & Guidance
- Recreational Forecasts
- Advanced Hydrologic Prediction Service
- Reservoirs
- Water Supply
- Snowmelt Peak Flow Data
- Webcam
- DamBreak

Weather

- Snow
- Precipitation
- Temperature
- Freezing Level
- Soil Moisture
- Discussions
- Text Data Products
- Warnings & Watches
- Forecasts
- Radar
- Satellite

Climate

- Data and Indices
- Forecasts
- El Nino and MJO
- Hydroclimatology

About the CBRFC

- Visitor Information
- Visitor Information (local)
- Address
- Staff
- History
- Papers
- Presentations

Contact Information:

www.cbrfc.noaa.gov

(801) 524-5130

brenda.alcorn@noaa.gov

Thank You!