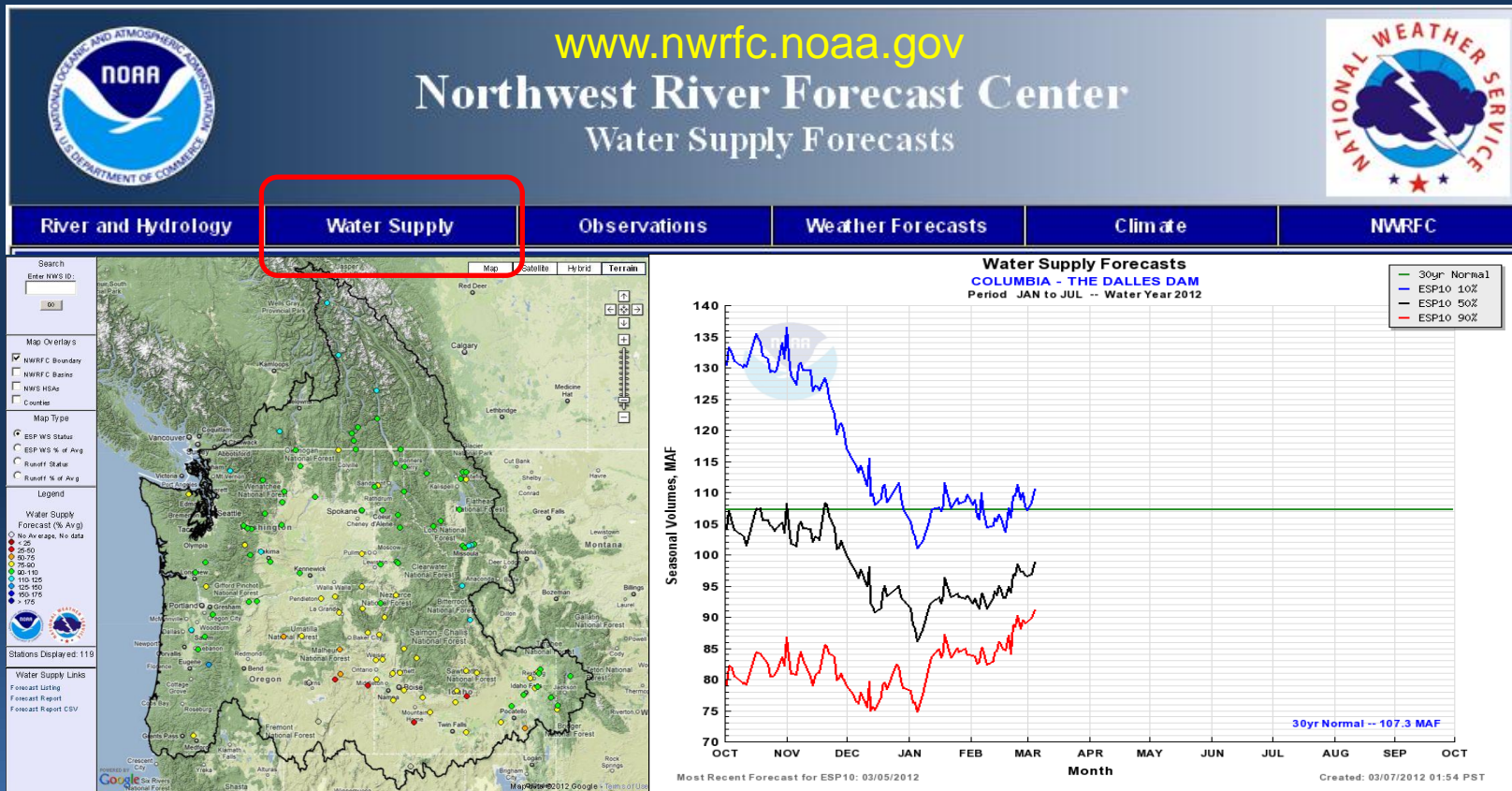


March 2012 Water Supply Briefing



Steve King, NWRFC
Stephen.King@noaa.gov
(503)326-7291



Observed Conditions



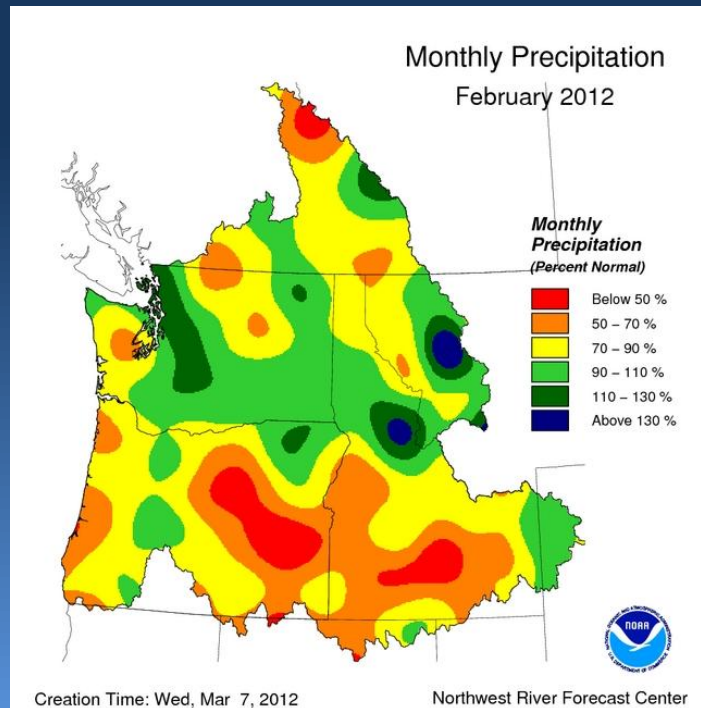
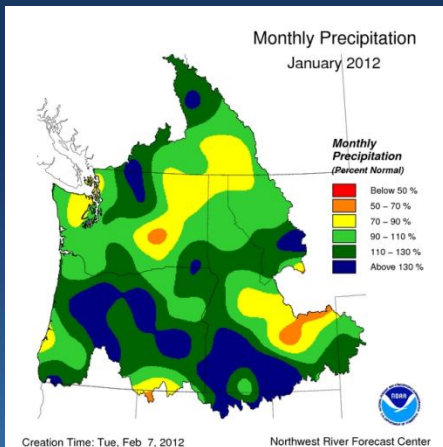
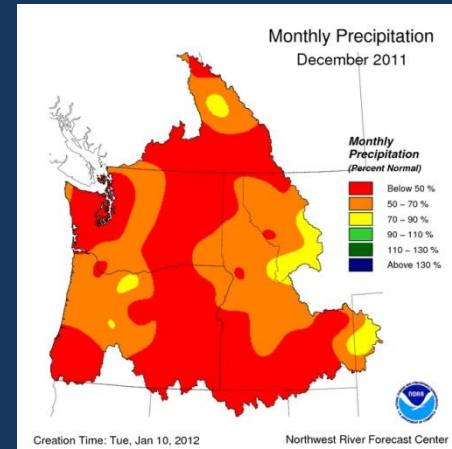
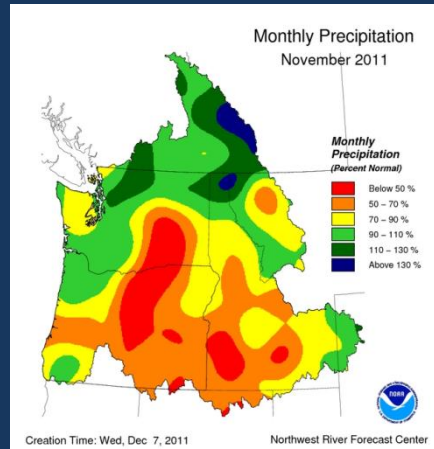
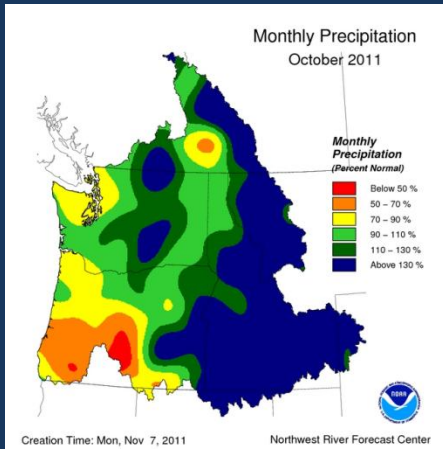
Precipitation

Snowpack

Runoff



Observed Monthly Precipitation



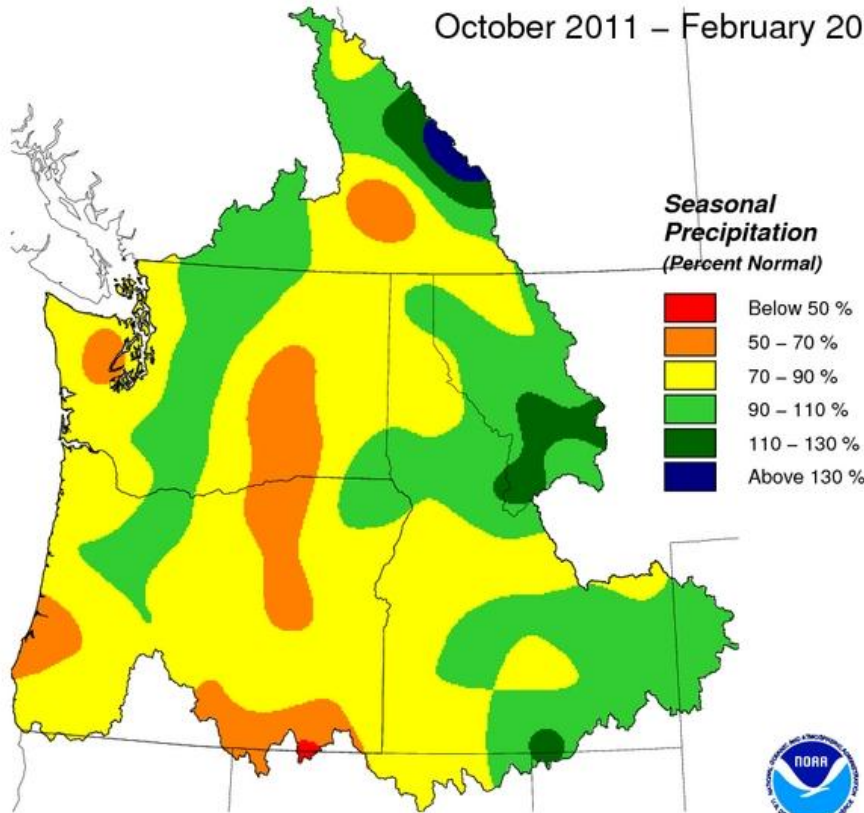
Observed
February Precipitation
above Grand Coulee = 85%
above Ice Harbor = 83%
above The Dalles = 86%



Observed Seasonal Precipitation



Seasonal Precipitation
October 2011 – February 2012



Observed Oct 1-February 29
Precipitation

above Grand Coulee = 92%
above Ice Harbor = 93%
above The Dalles = 94%



Creation Time: Wed, Mar 7, 2012

Northwest River Forecast Center

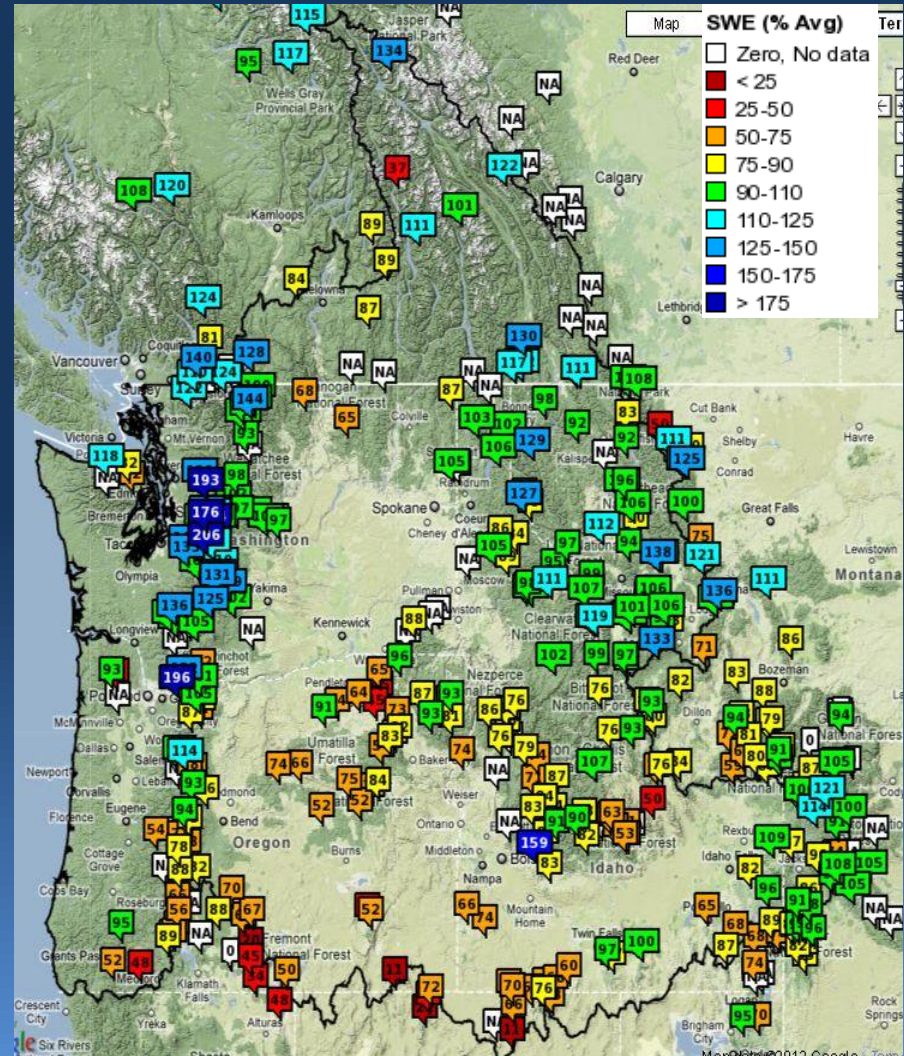
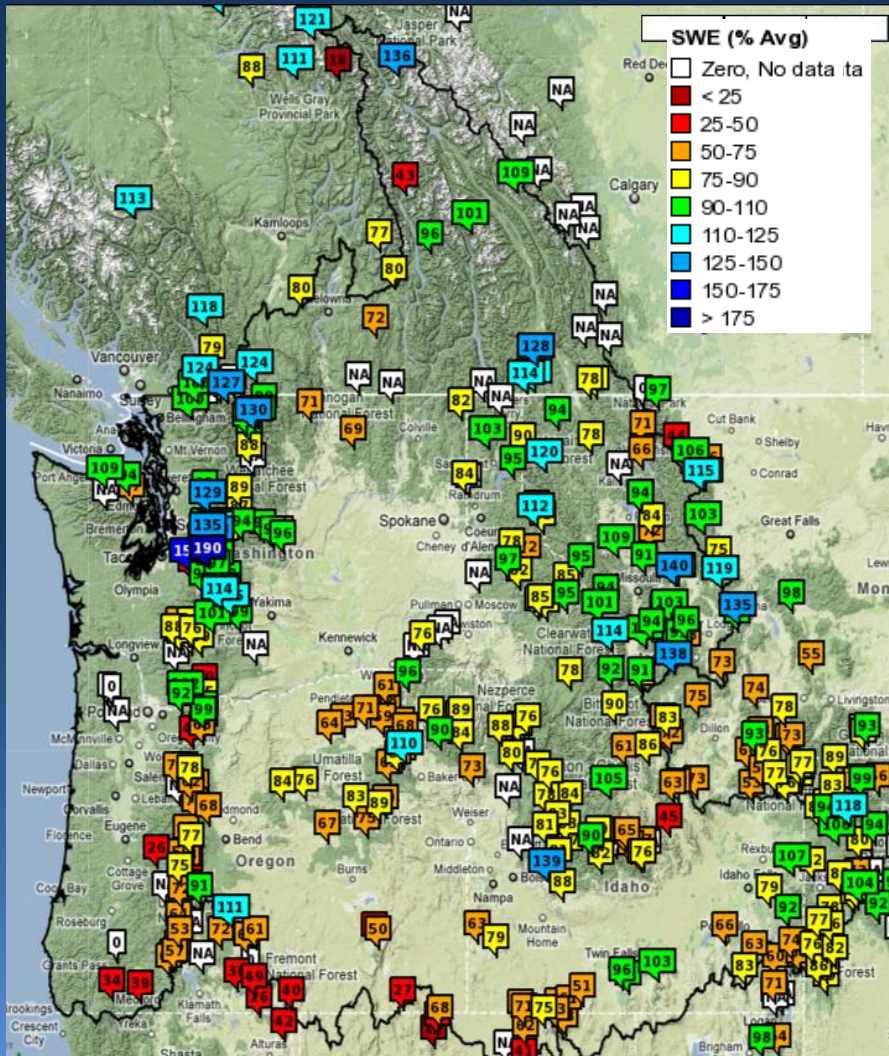


Current Snow Conditions



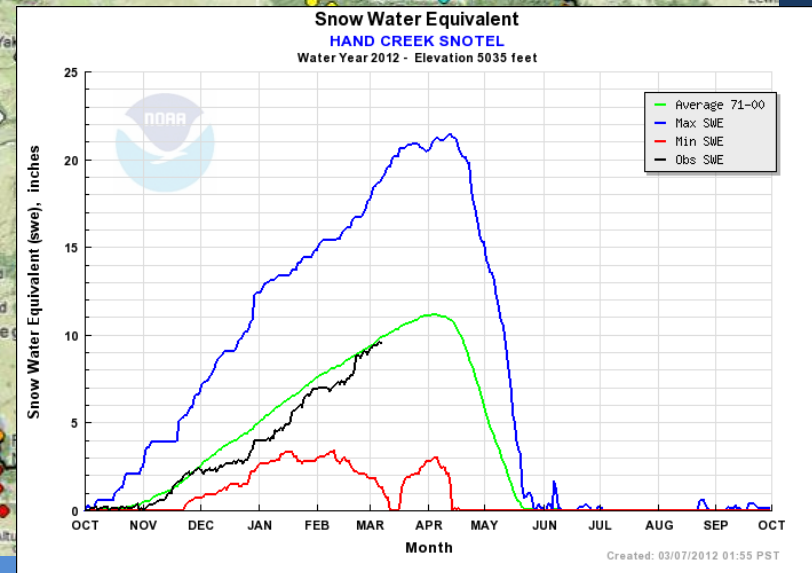
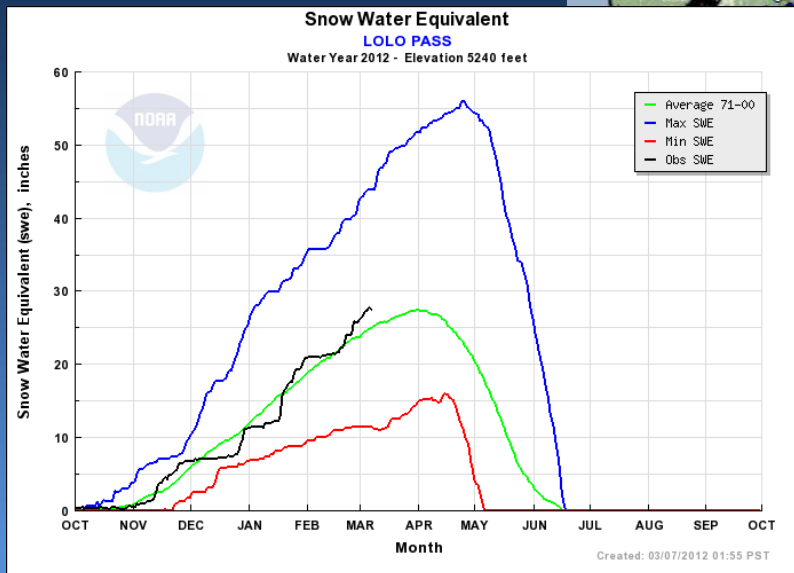
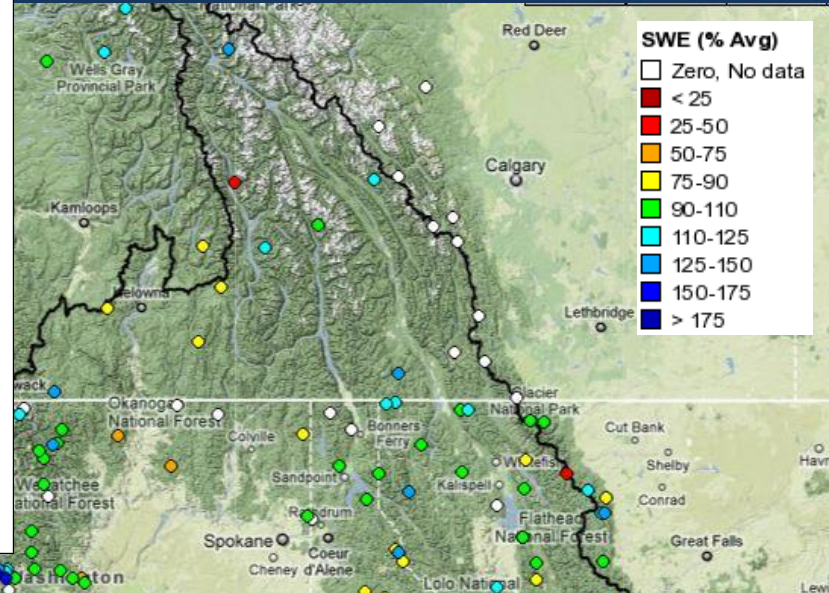
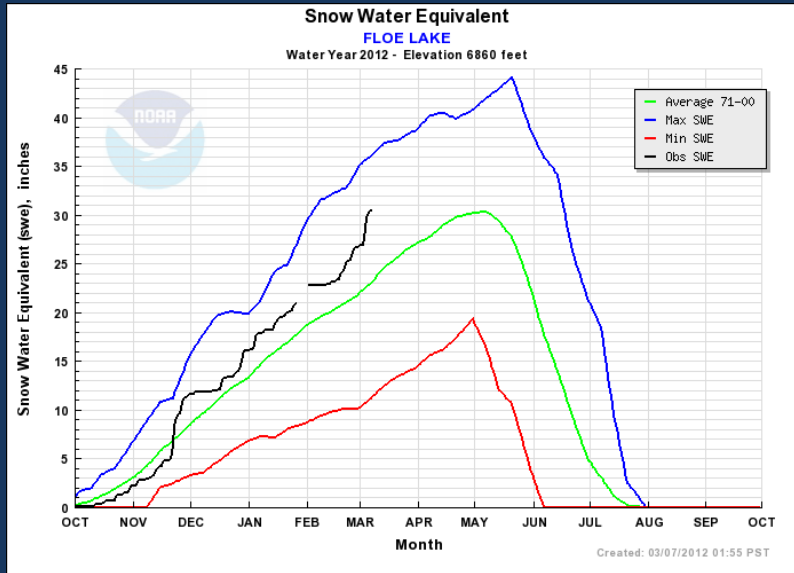
Feb 7, 2012

Mar 7, 2012



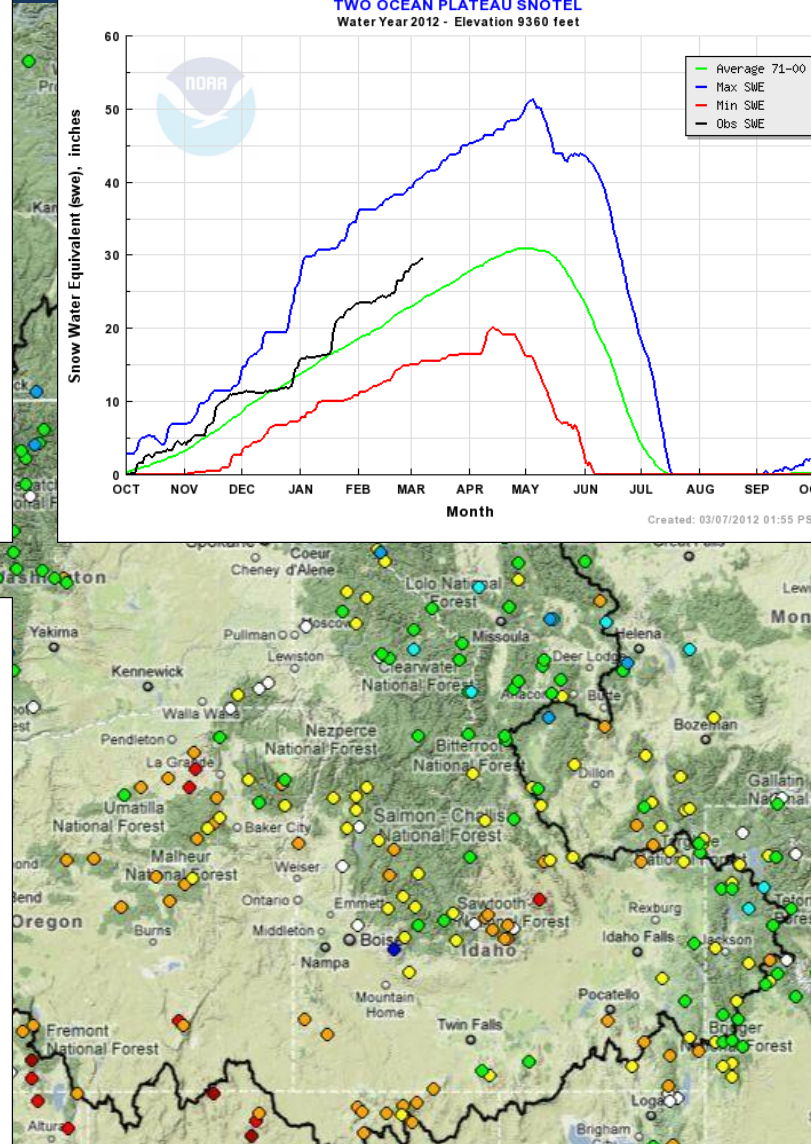
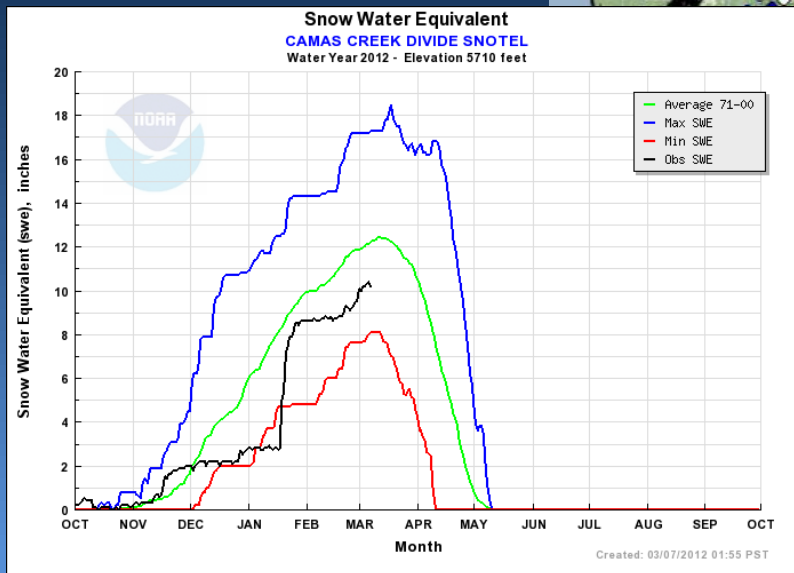
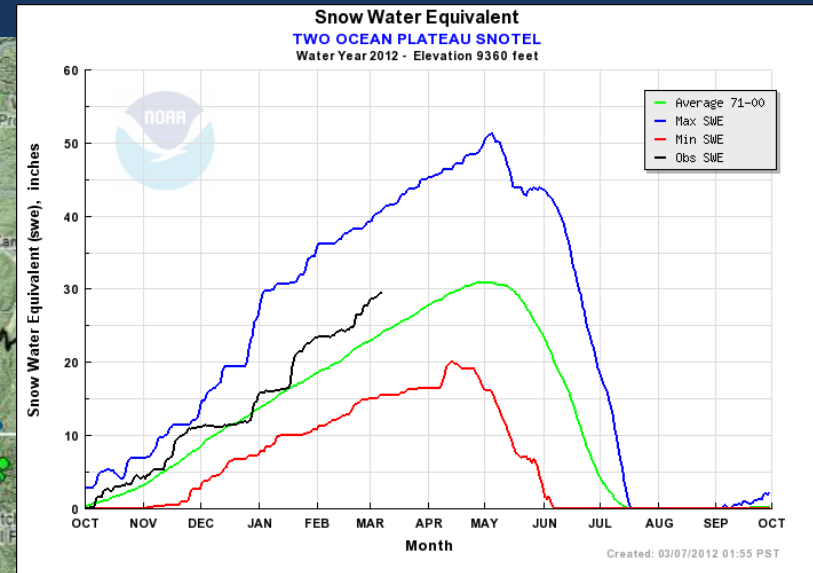
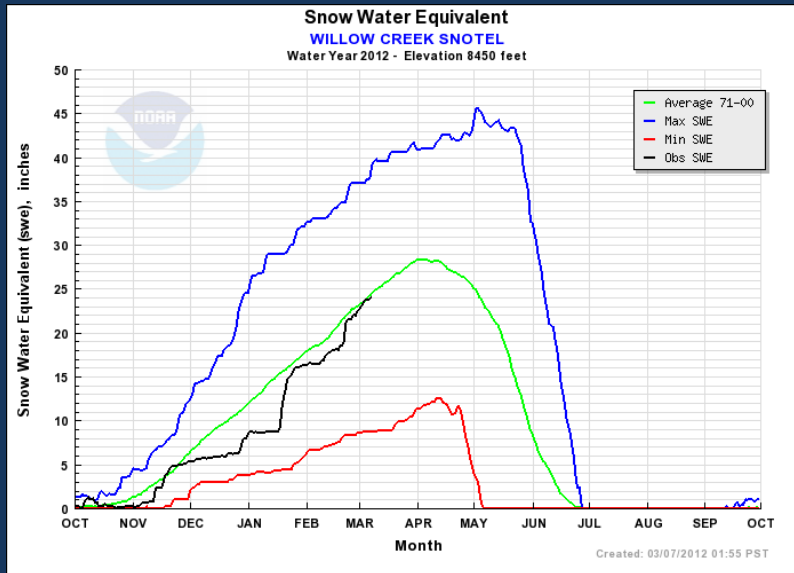


Upper Columbia Snow Conditions

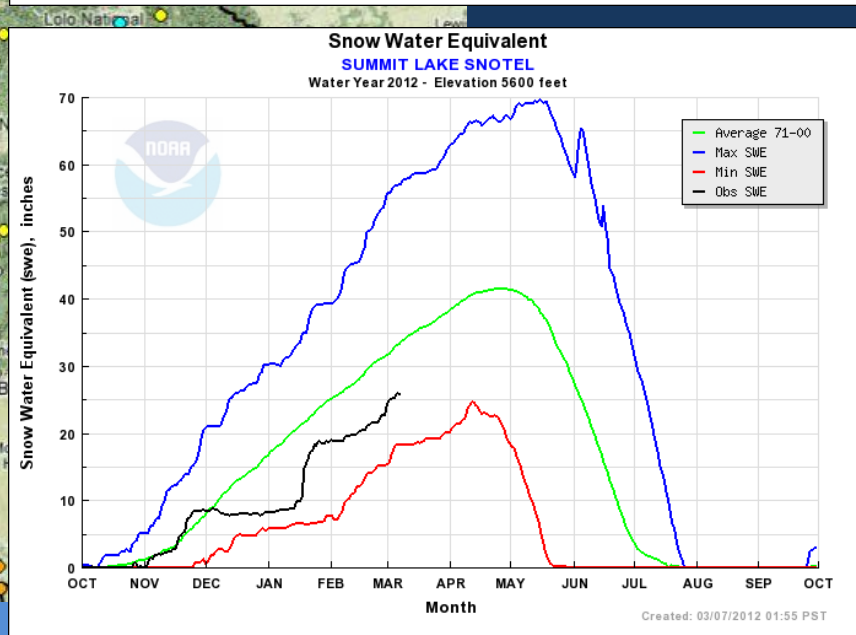
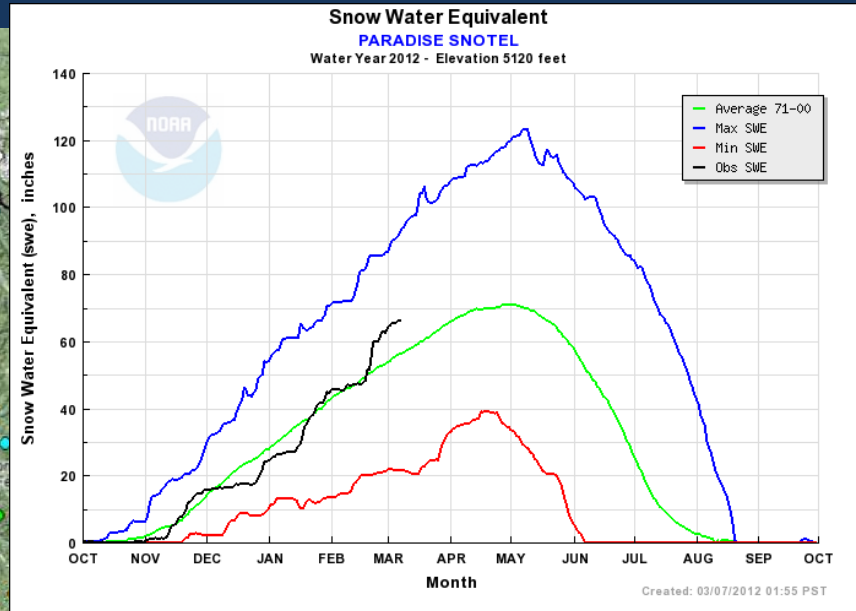
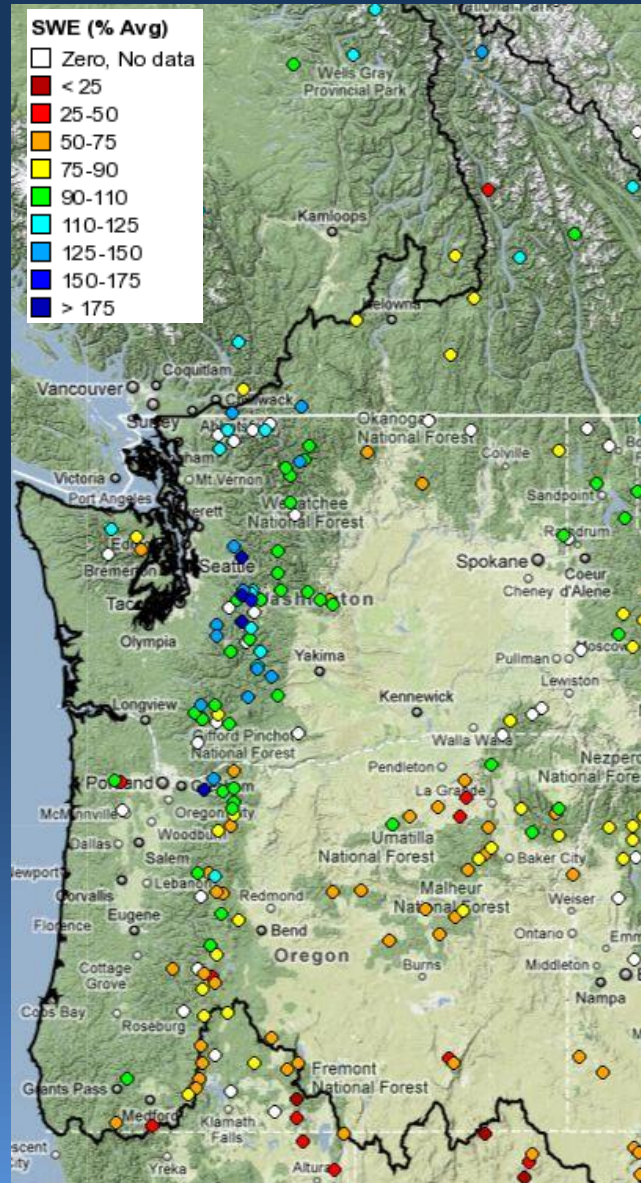




Snake River Snow Conditions



Lower Columbia Snow Conditions





Future Conditions



Climate Outlooks

10 Day Precipitation Forecast

Water Supply Forecasts

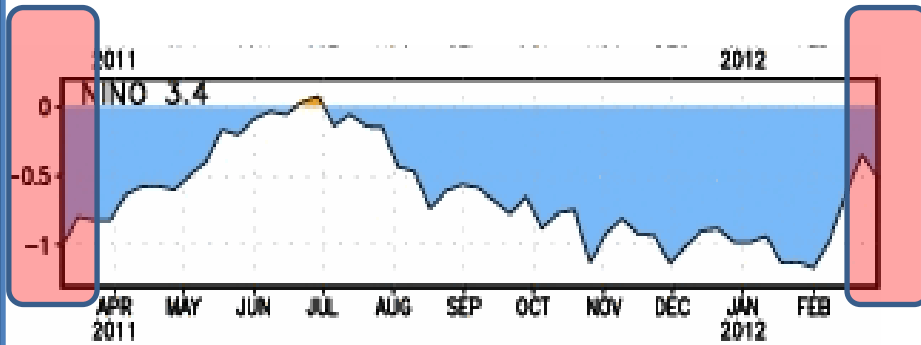


Enso: Observed and Forecast

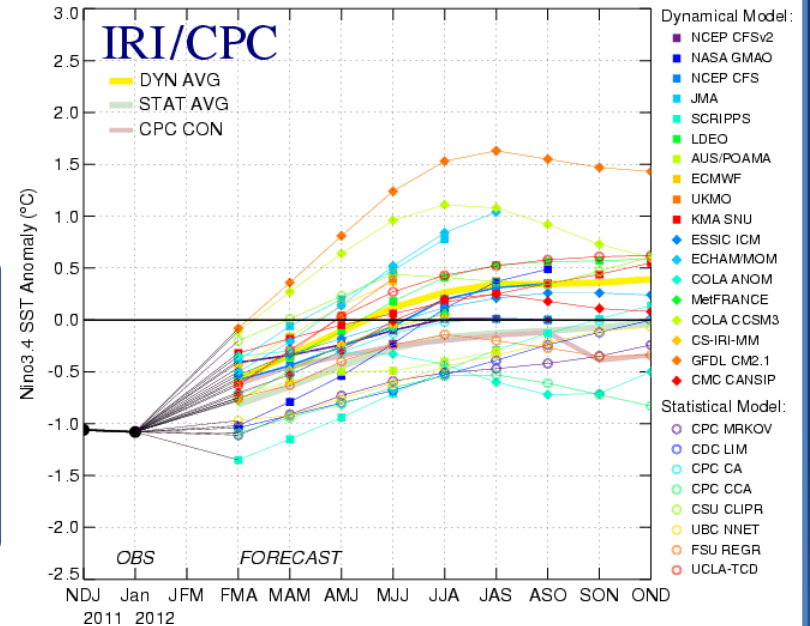
SST Anomaly (Deg C)



Latest observed: SST 3.4 ~ -0.5 Deg C



Mid-Feb 2012 Plume of Model ENSO Predictions



CPC Synopsis: La Niña expected to transition to neutral conditions this Mar-May

Source: Climate Prediction Center Weekly ENSO Update

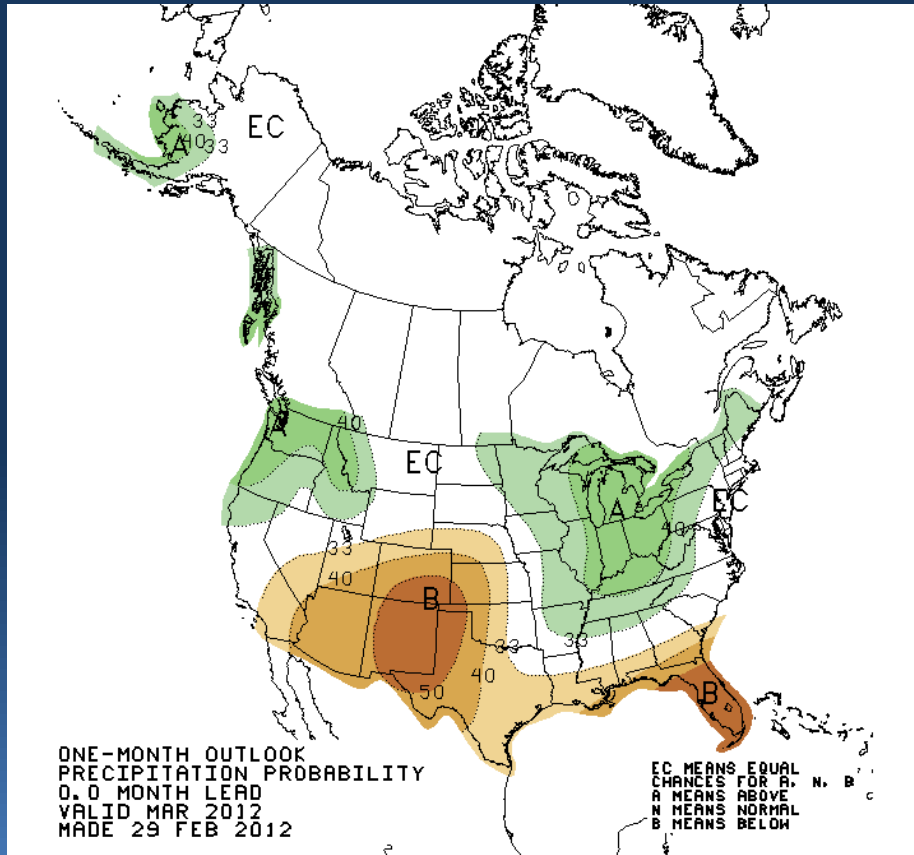
http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf



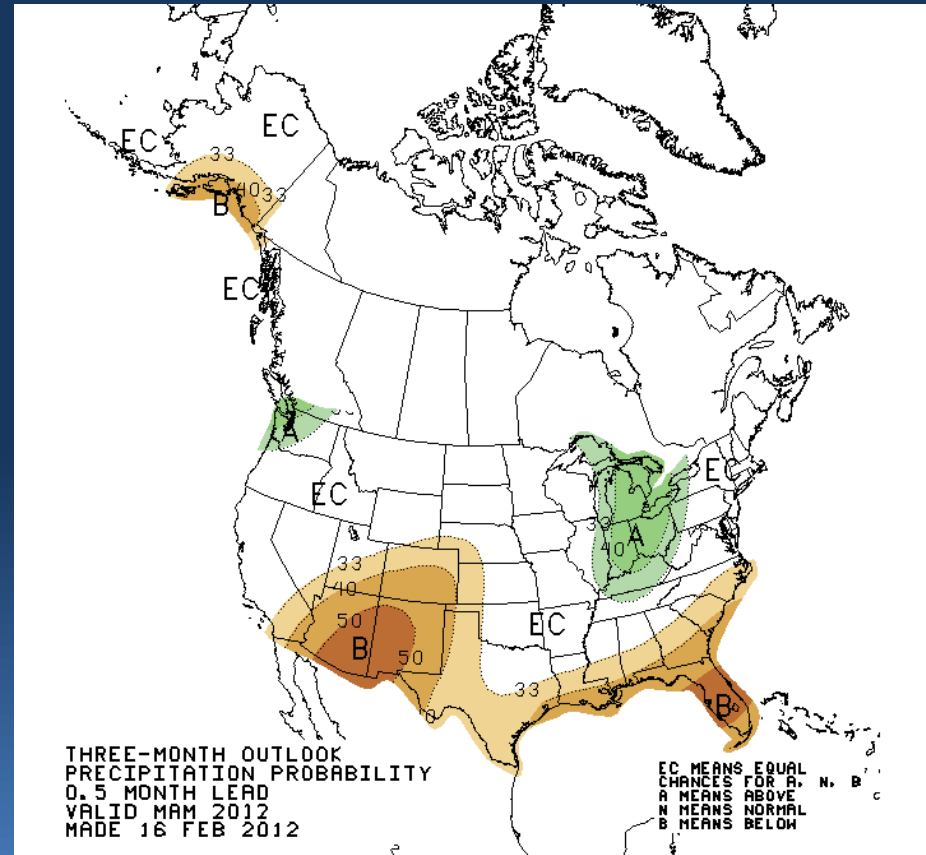
Climate Outlook: Precipitation



Current Month Outlook



Three Month Outlook

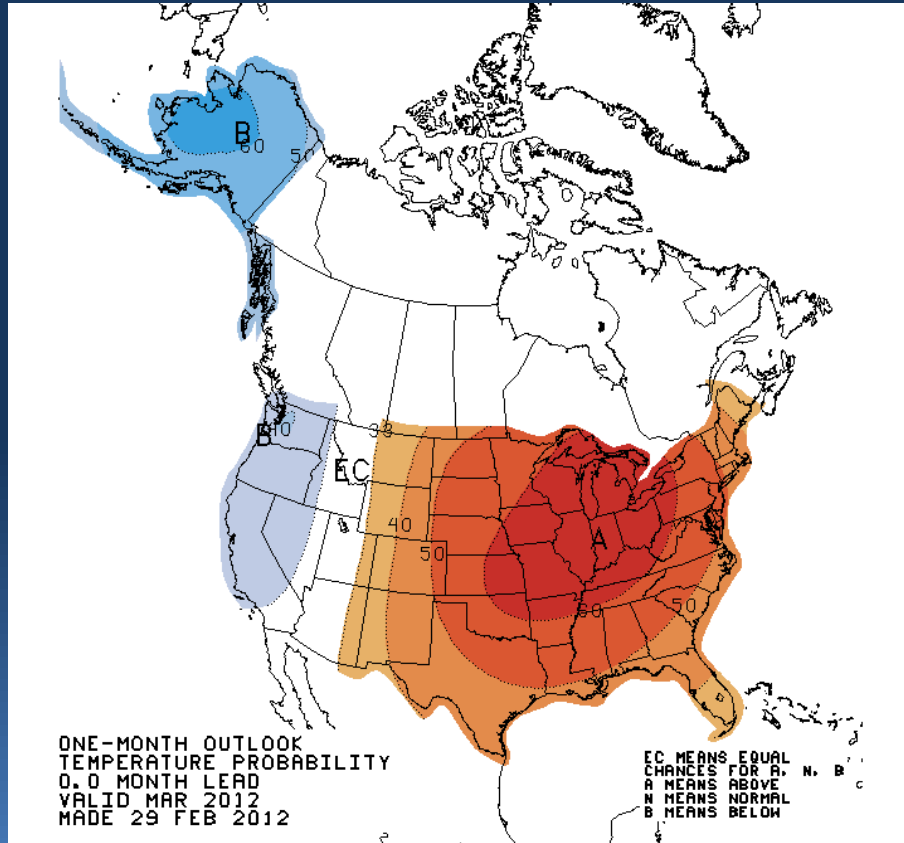




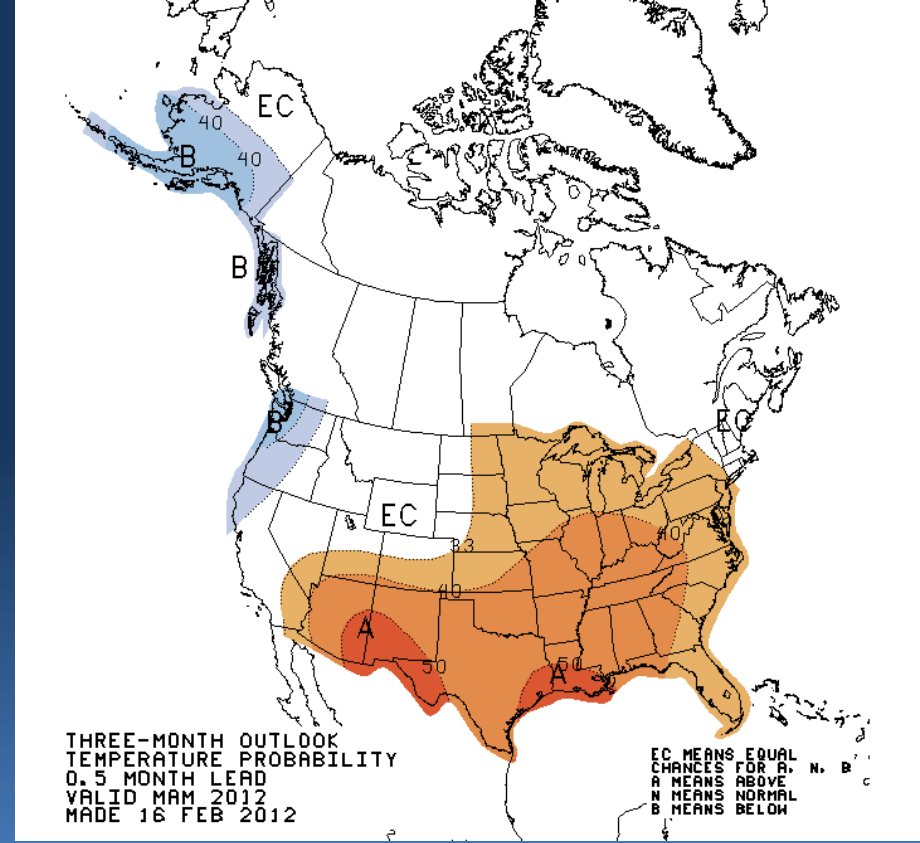
Climate Outlook: Temperature



Current Month Outlook

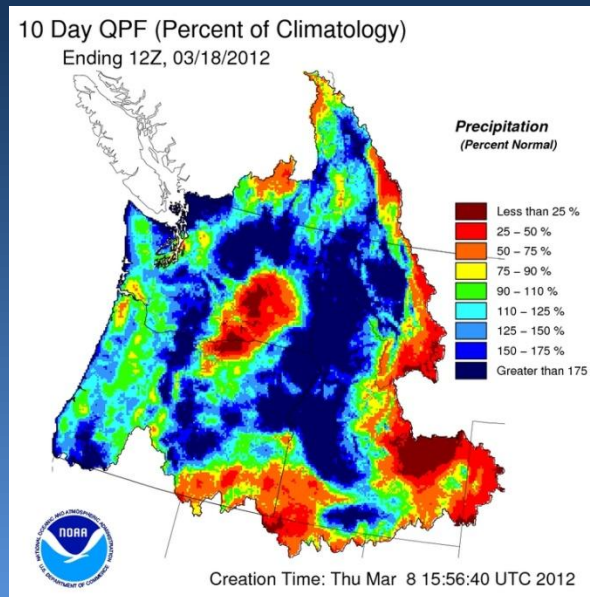
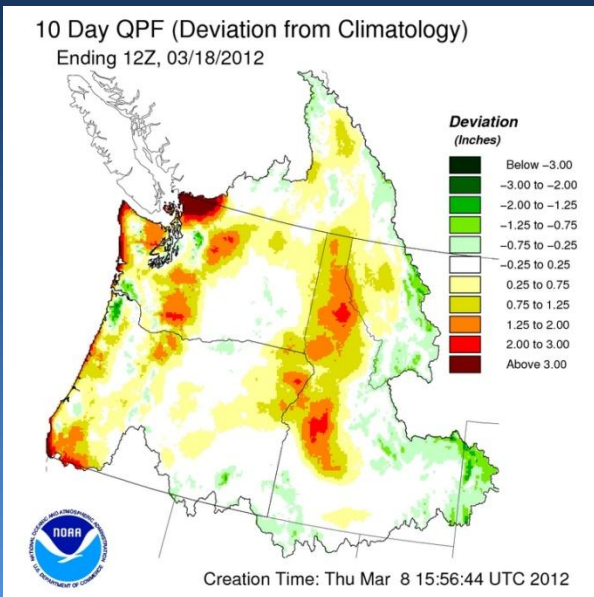
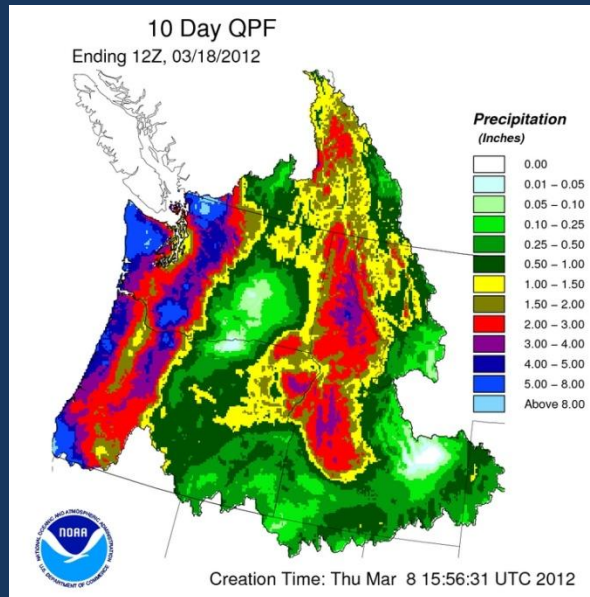
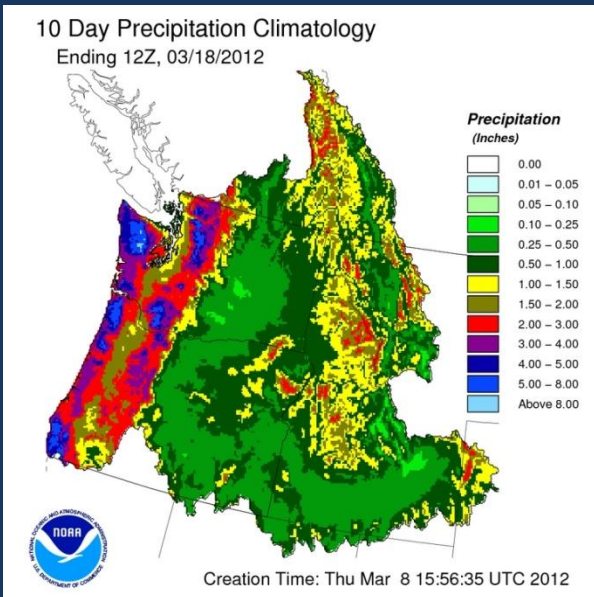


Three Month Outlook





ESP 10 Day Precipitation Forecast



Today's Forecast
(applies to Mar 8th
ESP ensemble date)

Work in progress to
make these plots
available on web



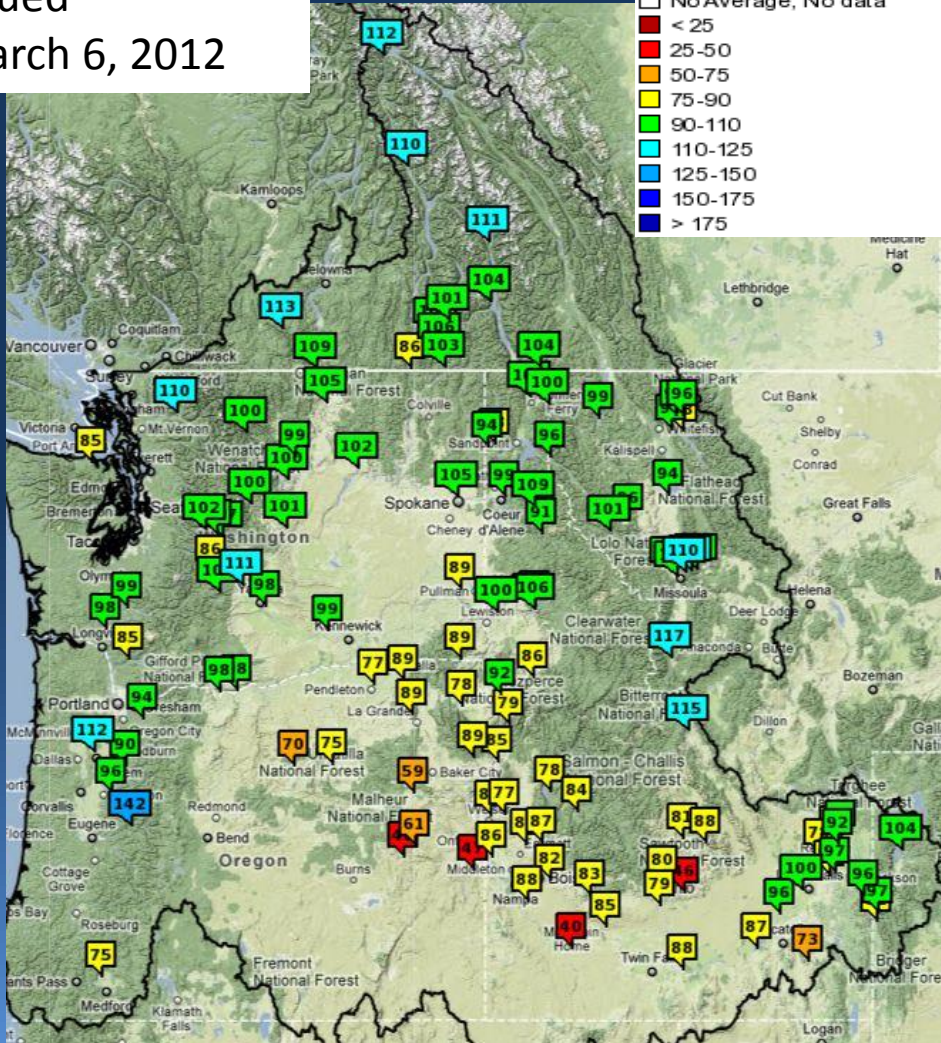
Water Supply Forecasts



Issued
March 6, 2012

Water Supply Forecast (% Avg)

- No Average, No data
- < 25
- 25-50
- 50-75
- 75-90
- 90-110
- 110-125
- 125-150
- 150-175
- > 175



Ensemble Streamflow Procedure
 Mar 6th Issuance Date
 Mar 5th Ensemble Date

Forecasts updated weekly/daily
 All forecasts are 'official'

NWRFC Forecasts
 Agency Collaborated

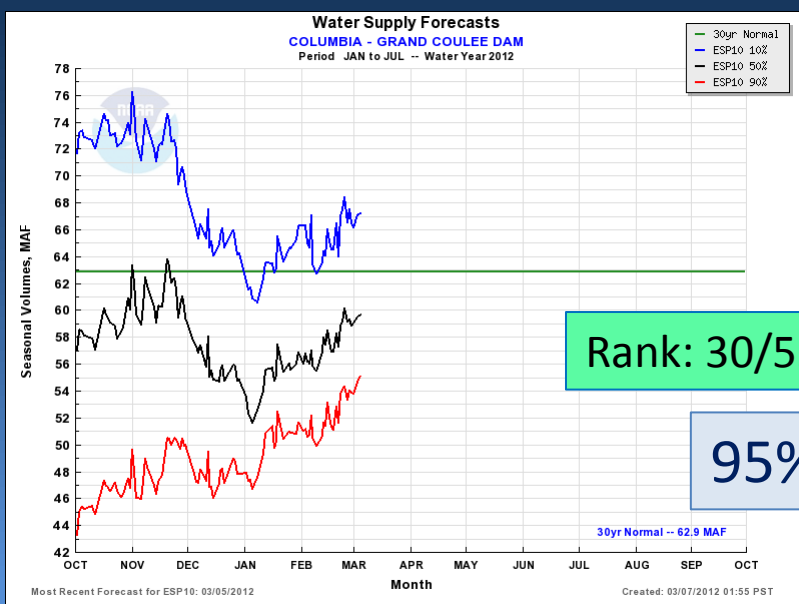
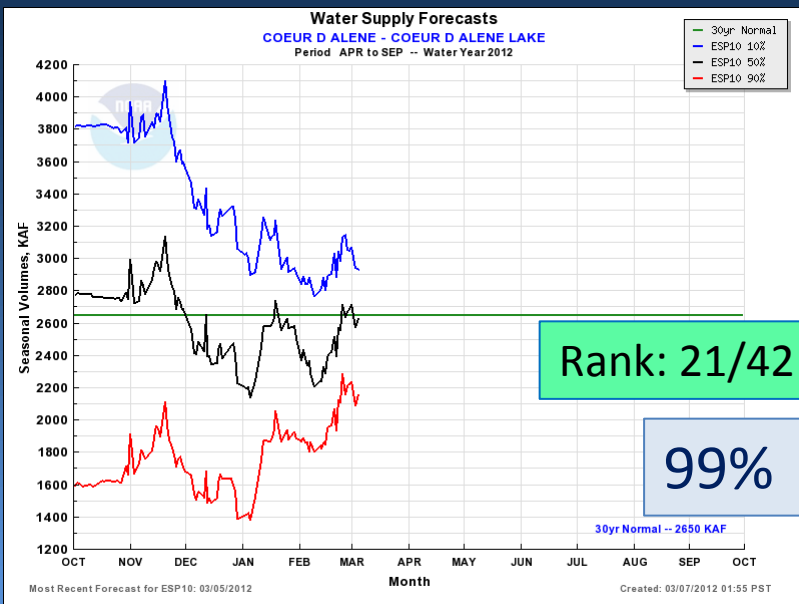
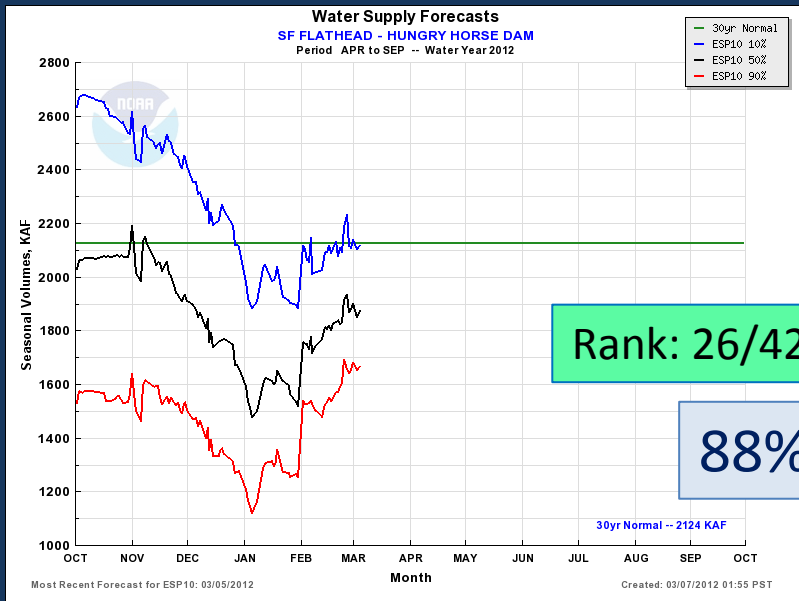
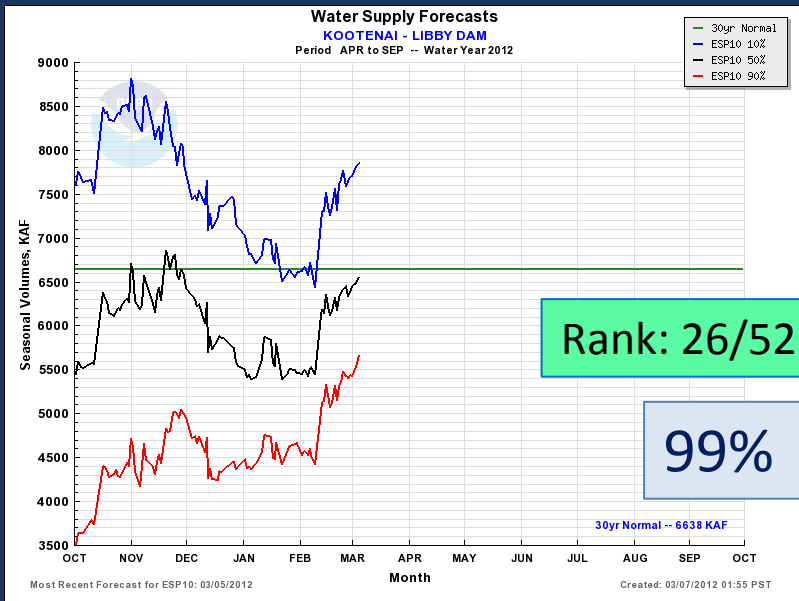
Forecasts include 10 days of
 forecast precipitation

Model States/Snow/Runoff
 updated continuously through
 month

Compared to 30 yr Runoff Normal
 (1971-2000)

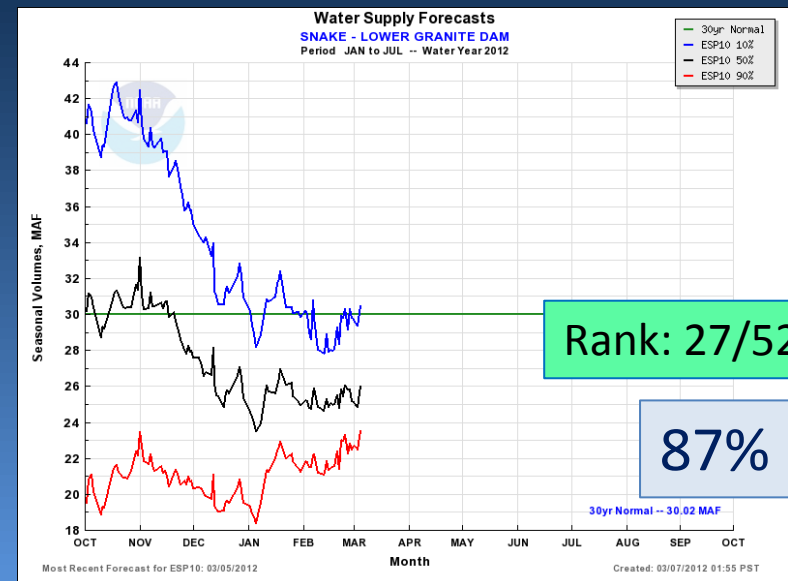
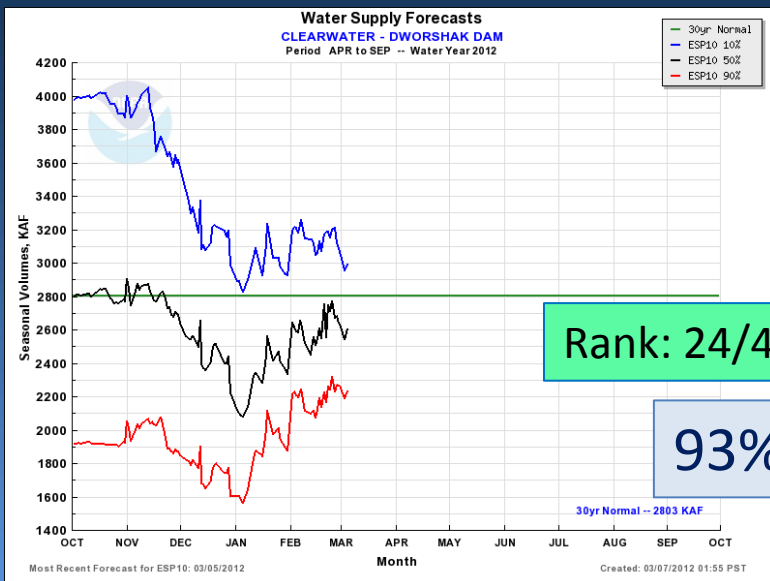
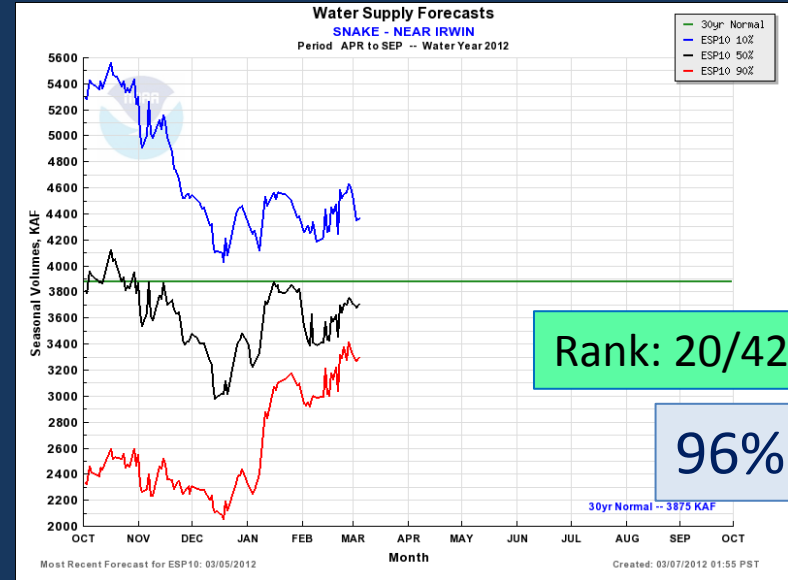
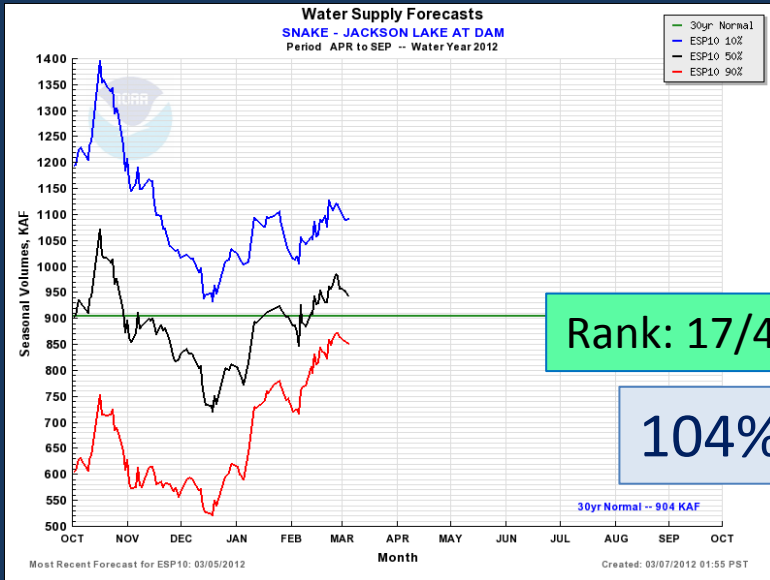


Water Supply Forecast: Upper Columbia



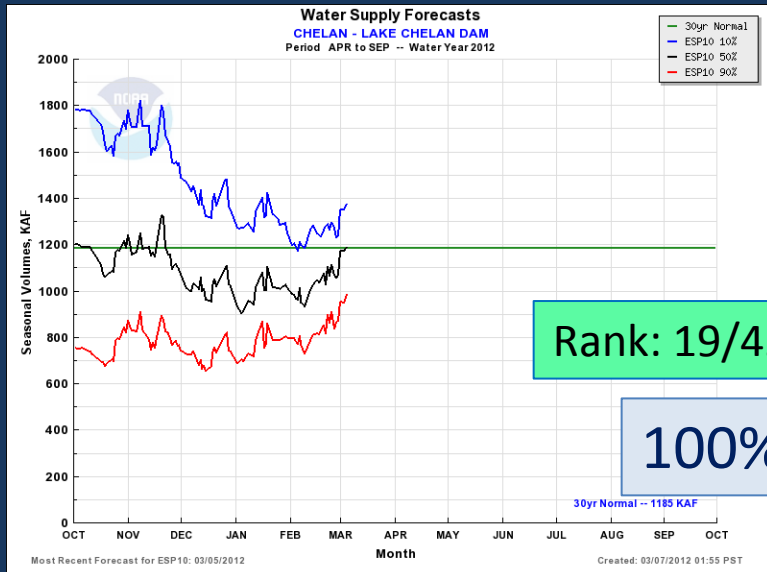


Water Supply Forecast: Snake



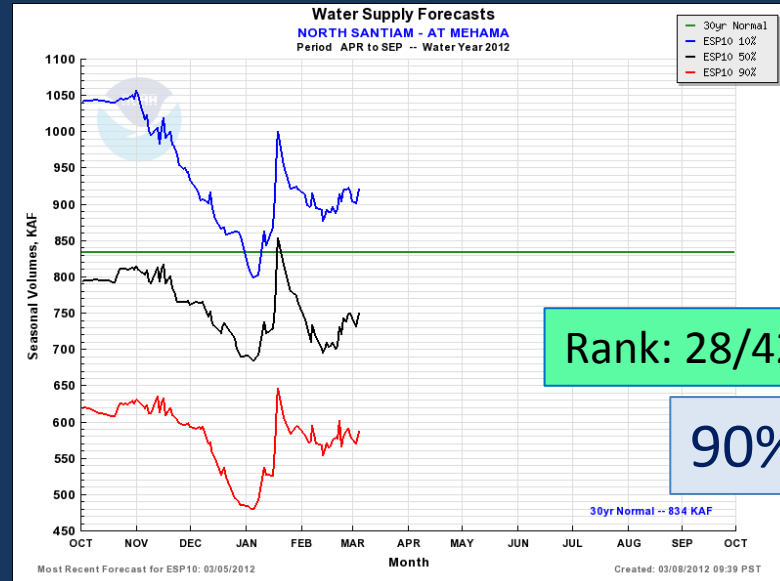


Water Supply Forecast: Lower Columbia



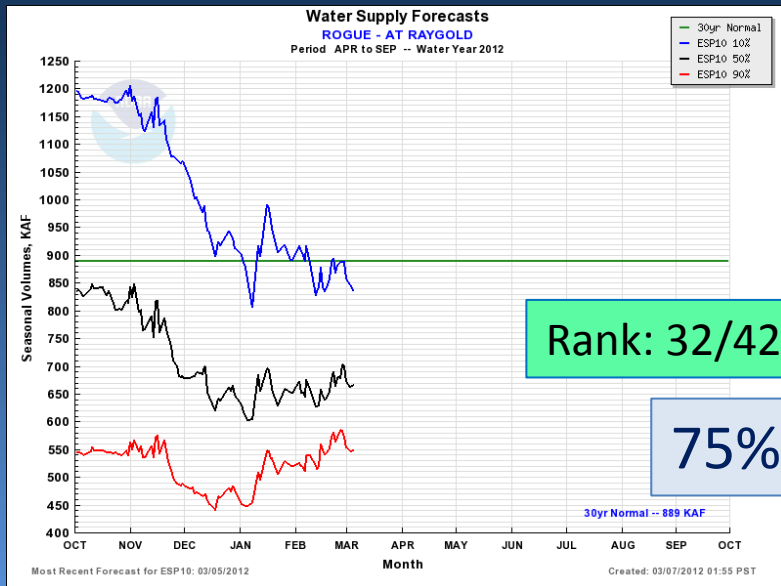
Rank: 19/42

100%



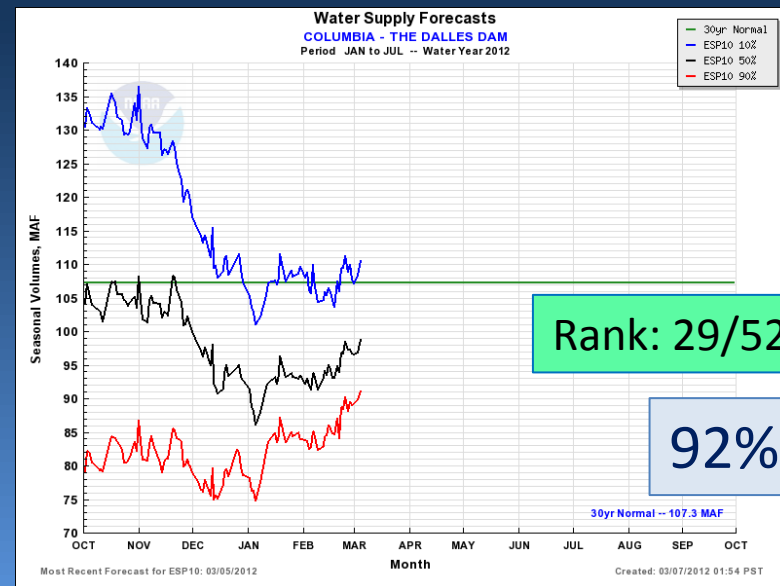
Rank: 28/42

90%



Rank: 32/42

75%



Rank: 29/52

92%



NWRFC Water Supply Webpage

http://www.nwrfc.noaa.gov/water_supply/ws_schd.cgi



Schedule for <i>Live Water Discussion</i>					
Jan	Feb	Mar	Apr	May	Jun
10	8	8	9	8	8

April webinar date subject to change...please check webpage for update!!