February 2014 Water Supply Briefing

National Weather Service/Northwest River Forecast Center

www.nwrfc.noaa.gov/presentations/html/wy2014 ws/WS Briefing Page 20140206.pdf

Telephone Conference: 1-888-455-2990

Pass Code: 60696

2014 Briefing Dates:

February 6 - 10am Pacific

March 6 - 10am Pacific

April 10 - 10am Pacific

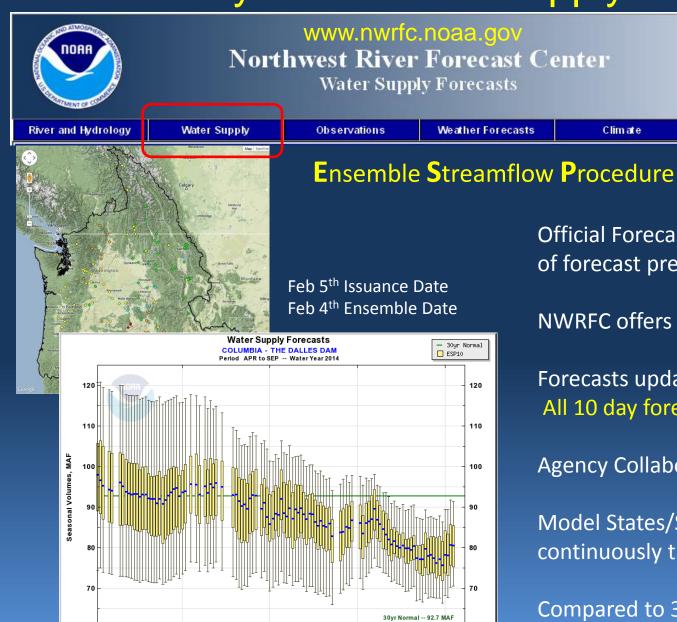
May 8 - 10am Pacific

Joanne Salerno, NWRFC W-ptr.Webmaster@noaa.gov (503)326-7291

February 2014 Water Supply Briefing

FEB

Plot Created 02/06/2014 06:09 PS



Date of Issuance

Most Recent Forecast for ESP10: Ensemble Date 02/04/2014



Official Forecasts include 10 days of forecast precipitation

NWRFC offers 5 and 0 day QPF

Forecasts updated daily All 10 day forecasts are 'official NWS'

Agency Collaborated

Clim at e

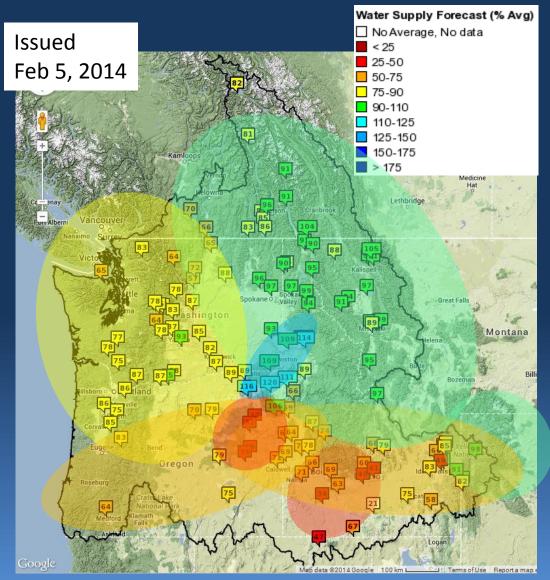
Model States/Snow/Runoff updated continuously through month

Compared to 30 yr Runoff Normal (1981-2010)



Water Supply Summary





Most eastside Apr-Sep forecasts are near or below normal

Most forecasts have been on the decline due to current dry regime.

Conditions are generally driest in the south-eastern basins

Wettest forecasts (above 100%) are in the mid latitudes of Idaho, northeast Oregon, and western Montana.



Observed Conditions



Precipitation

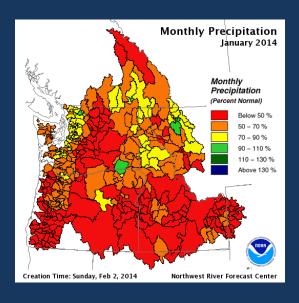
Temperature

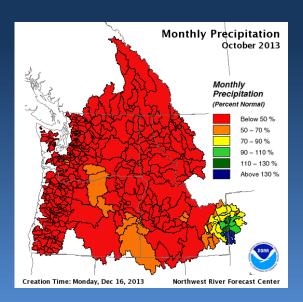
Snowpack

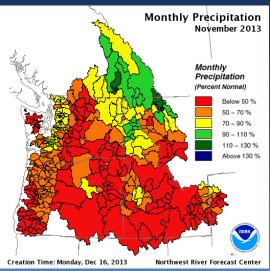


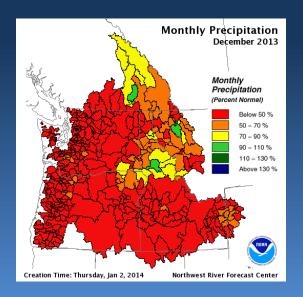
Observed Monthly Precipitation







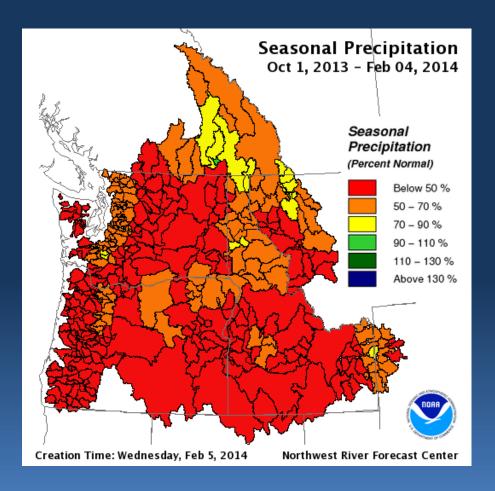






Observed Seasonal Precipitation





Observed Precipitation
Water Year to Date
Columbia River Above the Dalles

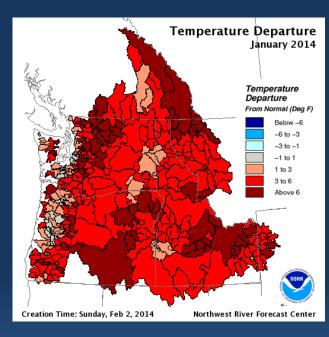
DIVISION NAME	OBS (in)	% Norm
Snake River abv Ice Harbor Dam	4.4	45
Columbia River abv Grand Coulee	10.3	61
Columbia River abv The Dalles	6.4	50

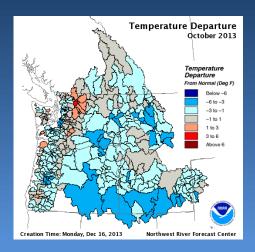


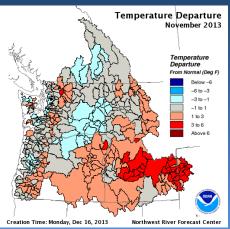
Temperature Departures

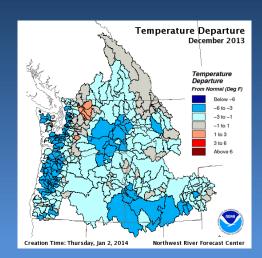


Water Year 2014







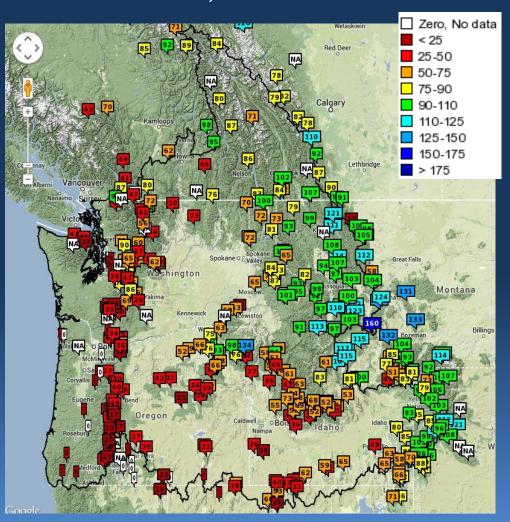




Current Snow Conditions



Feb 3, 2014



Near and above normal Snow amounts are in western Montana, eastern Canada, the very upper Snake, and northeast Oregon

Large swaths of below normal snow pack exist along the Oregon Cascades and the southern half of the region



Future Conditions



Climate Outlooks

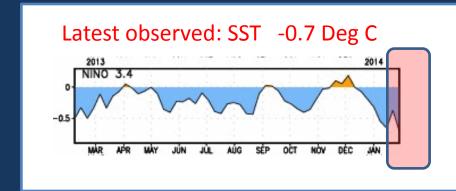
Water Supply Forecasts



NOAA ENSO: Outlook



SST Anomaly (Deg C)



El Nino : SST >= +.5C

Neutral: SST -.5 C to +.5 C

La Nina: SST <= -.5C

CPC Synopsis: *ENSO-neutral* conditions are expected to continue into the Northern Hemisphere Summer 2014.

Source: Climate Prediction Center Weekly ENSO Update

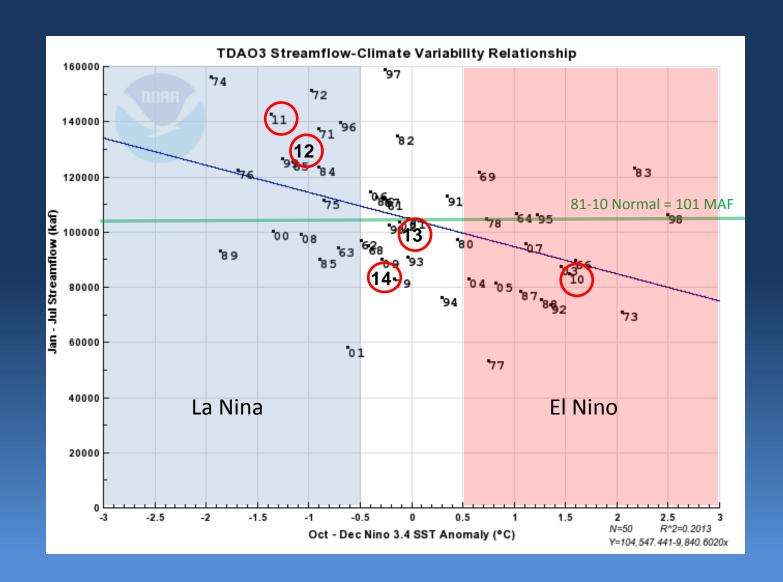
http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf



SST Anomaly vs Streamflow



Columbia River near The Dalles





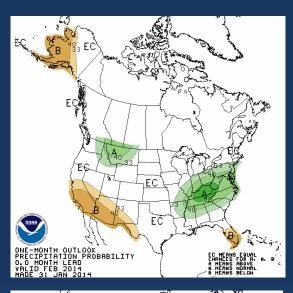
CPC Climate Outlook

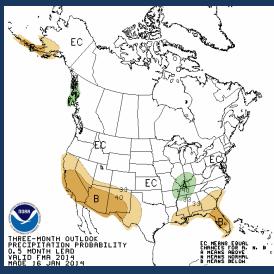


Current Month Outlook

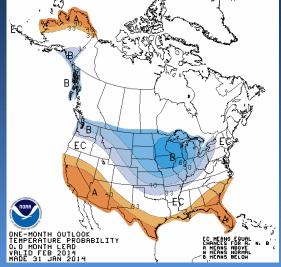
Three Month Outlook

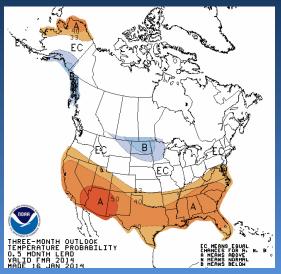






Temperature







Water Supply Forecasts



Apr-Sep

Jan / Feb Change Issued Map Satel Kootenai Feb 5, 2014 Red Deer – Libby Dam Calgary Coeur d'Alene – Coeur d'Alene Lake Lethbrid 88% 84% 97% SF Flathead – Hungry Horse Dam 91% 79 79 Columbia - Grand Coulee Dam **Jan-Jul

Rank: 38/54

Rank: 25/44

Rank: 31/44

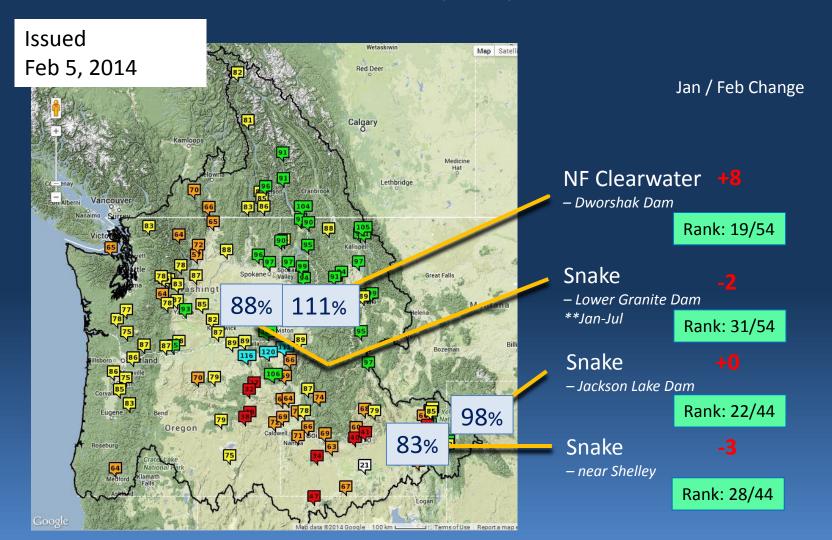
Rank: 43/54



Water Supply Forecasts



Apr-Sep

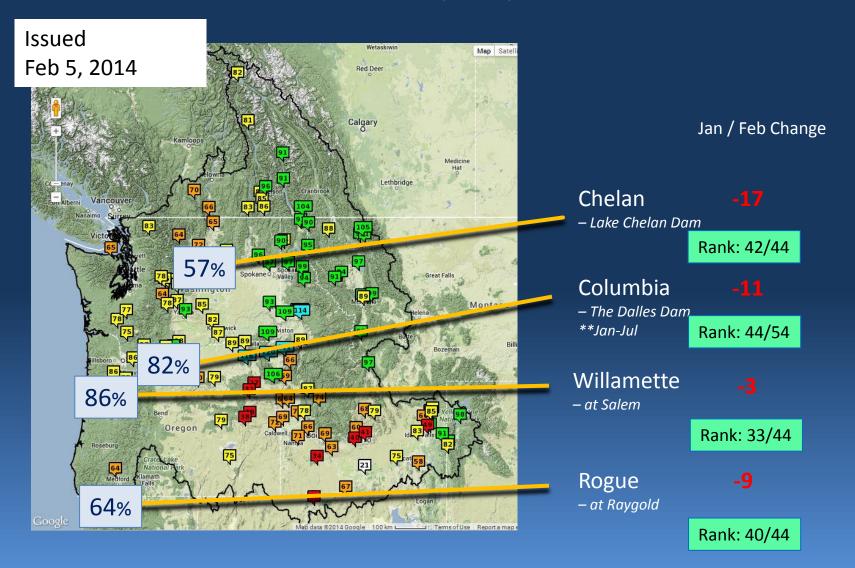




Water Supply Forecasts



Apr-Sep





NWRFC Water Supply Webpage

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

2014 Schedule for Live Water Supply Briefings						
Jan	Feb	Mar	Apr	May	Jun	
9	6	6	10	8	TBD	
All presentations held at 10am PDT/PST, unless noted otherwise						
Click here for Registration Information						
Archive of Previous Briefings						

http://www.nwrfc.noaa.gov/presentations/presentations.cgi

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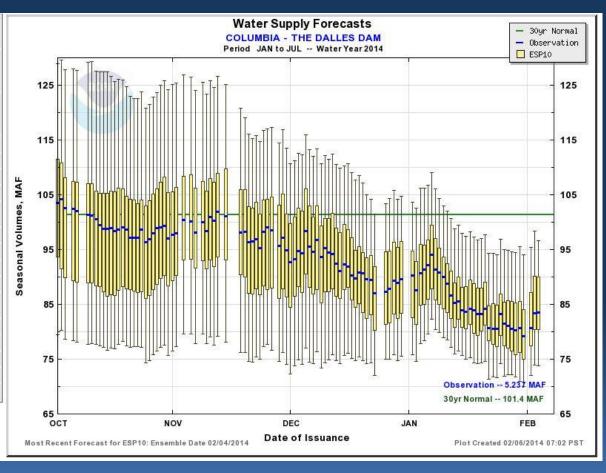


Questions?



COLUMBIA - THE DALLES DAM (TDAO3) Forecasts for Water Year 2014 Official Forecast 10 days QPF: Ensemble: 2014-02-04 Issued: 2014-02-05 Forecasts Are in KAF 30 Year Forecast Average Period 90 % 50 % Average 10 % (1981-2010)APR-SEP APR-JUL APR-AUG JAN-JUL 5 days QPF: Ensemble: 2014-02-04 Issued: 2014-02-05 APR-SEP APR-JUL APR-AUG JAN-JUL 0 days QPF: Ensemble: 2014-02-04 Issued: 2014-02-05 APR-SEP APR-JUL APR-AUG JAN-JUI

Move the mouse over the desired "Forecast Period" to display a graph.



90% -> 9 in 10 chance of volume being exceeded (quite likely)

10% -> 1 in 10 chance of volume being exceeded (a possibility)

50% -> 5 in 10 chance of volume being exceeded (most expected)