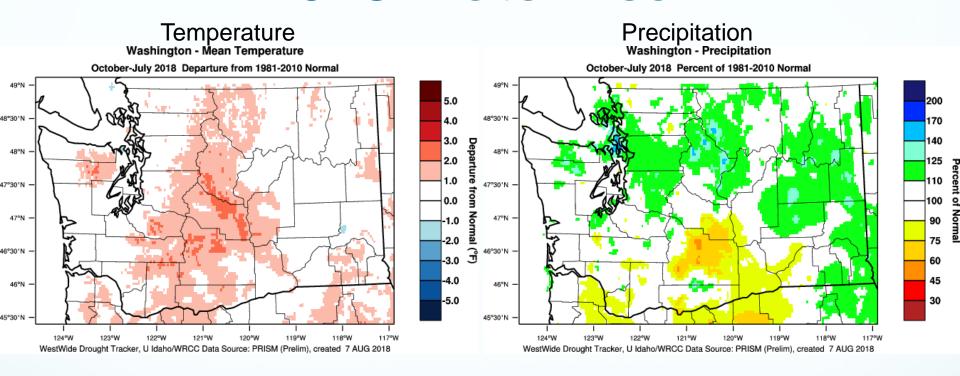
Regional Climate Perspective

Nick Bond & Karin Bumbaco
Office of the Washington State Climatologist
Joint Institute for the Study of Atmosphere and Ocean
University of Washington
10 August 2018

2018 Water Year



- Temperatures near-normal to above normal
 - Averaged statewide, Oct-July: 0.8°F above 1981-2010 normal
- Mixed bag throughout WA with tendency for above normal
 - Averaged statewide, Oct-July: 2.59" above 1981-2010 normal

May-July Conditions



Washington - Mean Temperature

May-July 2018 Departure from 1981-2010 Normal 48°30'N 46°30'N 46°30'N 124°W 123°W 122°W 121°W 120°W 119°W 118°W 117°W WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 7 AUG 2018

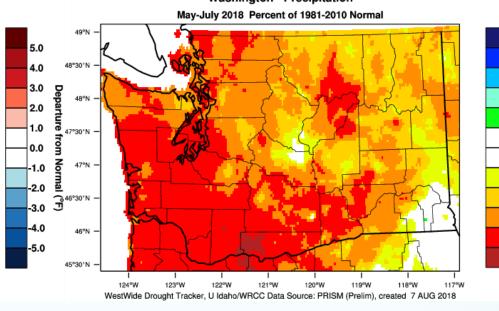
Precipitation



180 150

70

55



- Temperatures above normal statewide
 - Averaged statewide, 4th warmest May-July (2015 is #1)
 - 2.8°F above 1981-2010 normal (2015: +5.1°F)
- Below normal precipitation statewide
 - Averaged statewide, 6th driest May-July (2015 is #4)
 - 2.88" below 1981-2010 normal (2015: -3.14")

May-July Precipitation

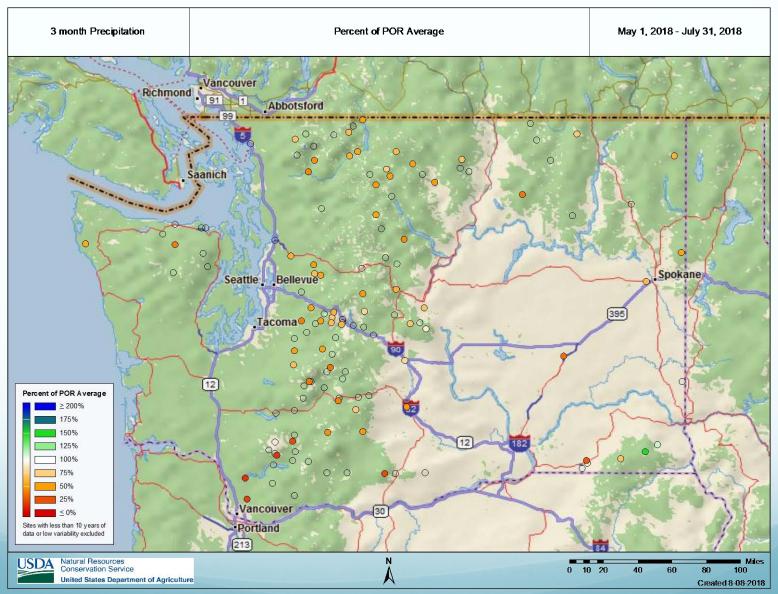
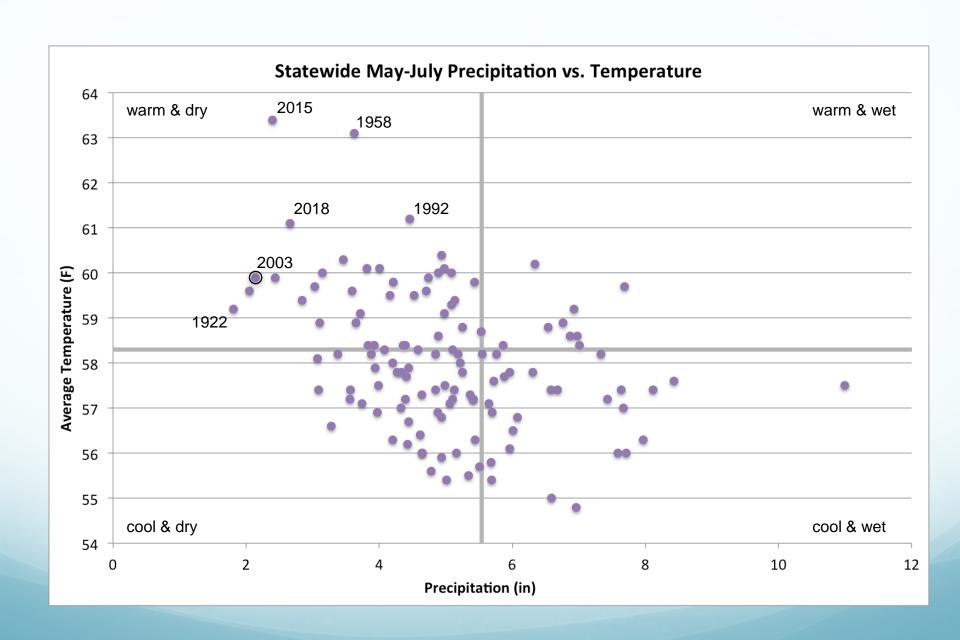


Figure provided by Scott Pattee, NRCS

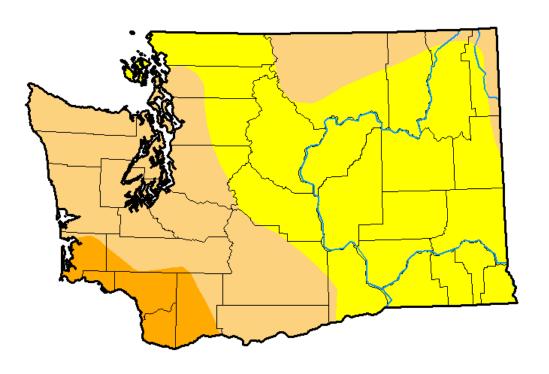


US Drought Monitor

U.S. Drought Monitor

Washington

August 7, 2018 (Released Thursday, Aug. 9, 2018) Valid 8 a.m. EDT



Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Richard Tinker CPC/NOAA/NWS/NCEP



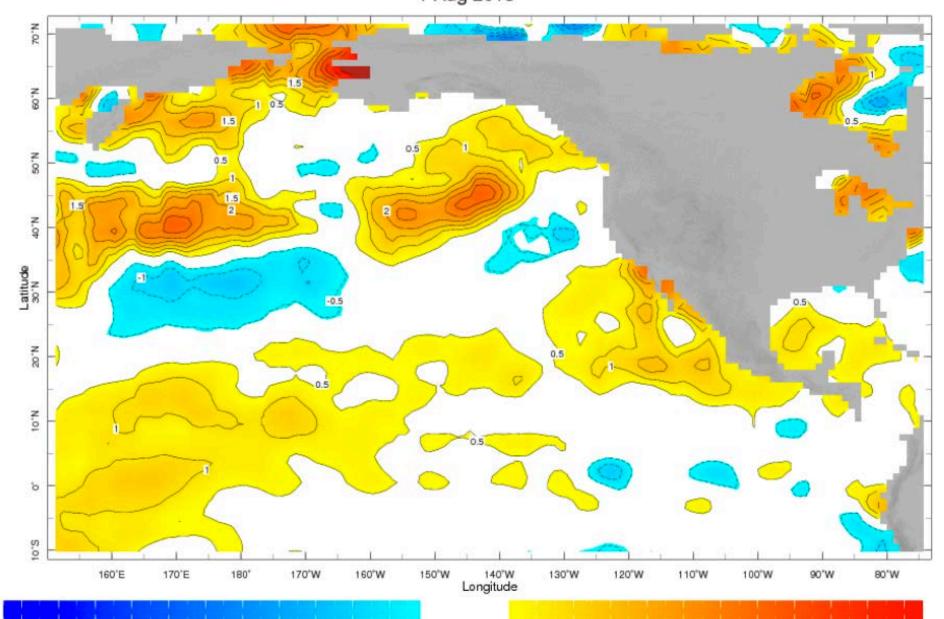






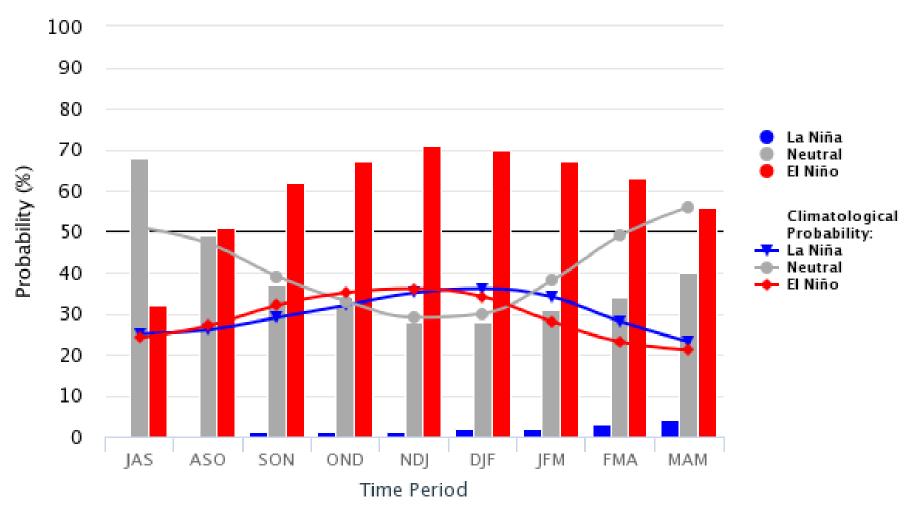
http://droughtmonitor.unl.edu/

Recent North Pacific SST Anomalies 1 Aug 2018

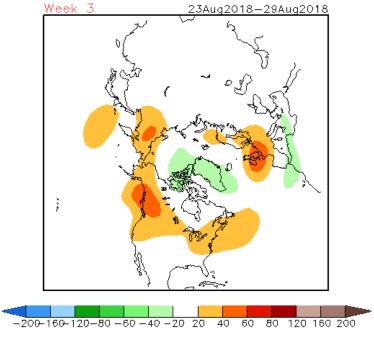


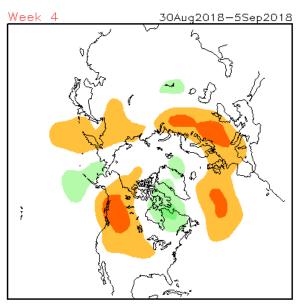
Early-Aug CPC/IRI Official Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5 °C to 0.5 °C



CFSv2 Weeks 3 & 4 500 hPa Z Anomalies (m) 16 Member Ensemble Mean Forecast from 08Aug2018

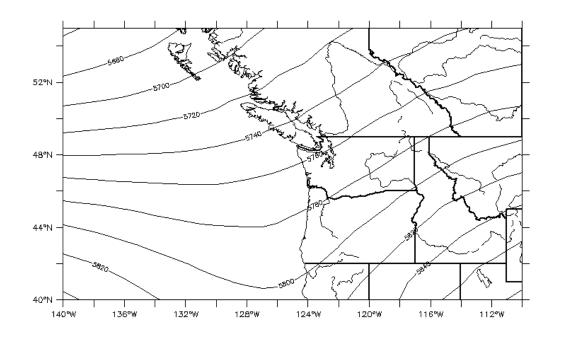




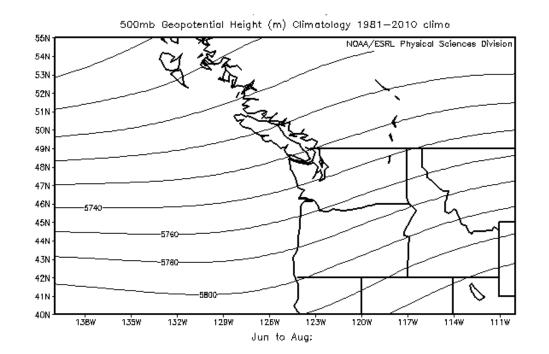
Latest Set of Week 3-4 Forecasts from CFSv2

Anomalously high 500 hPa Z over BC extending into NW US: Mostly warmer than normal for WA State, with a poor prospect for rain west of the Cascades

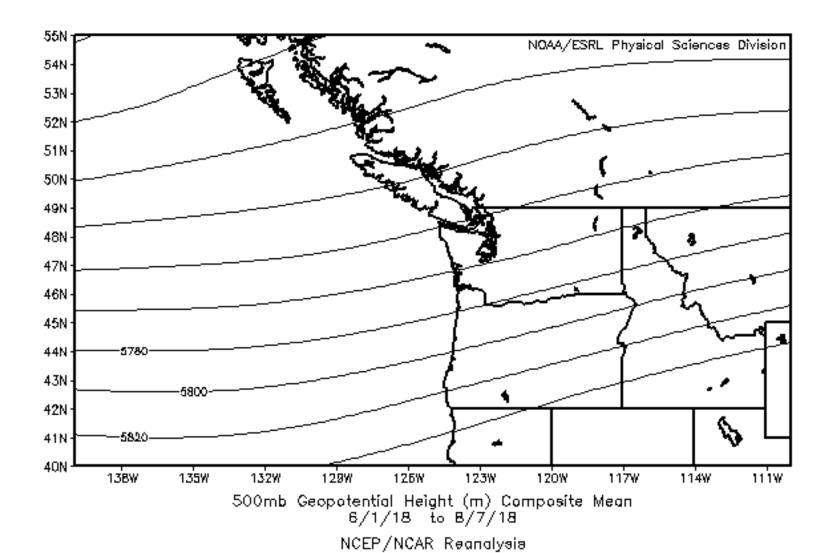
500 hPa Geopotential Heights (Z)



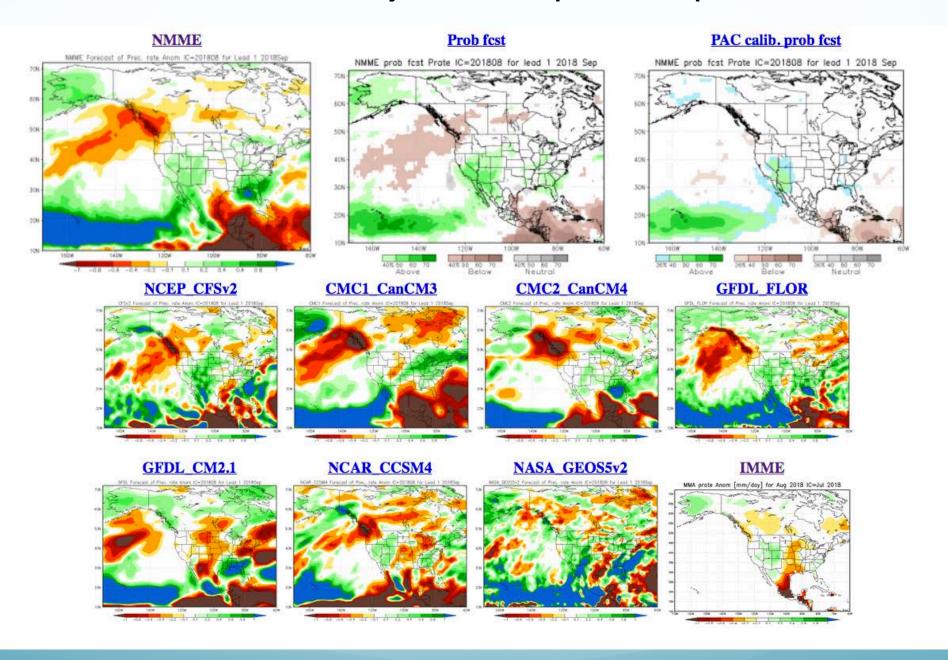
CFS Forecast for June-Aug from 1 May 2018



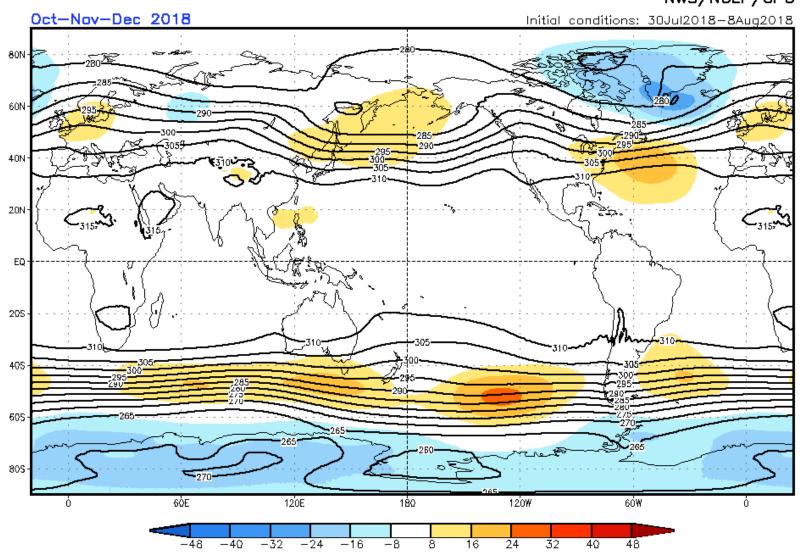
Climatological Mean

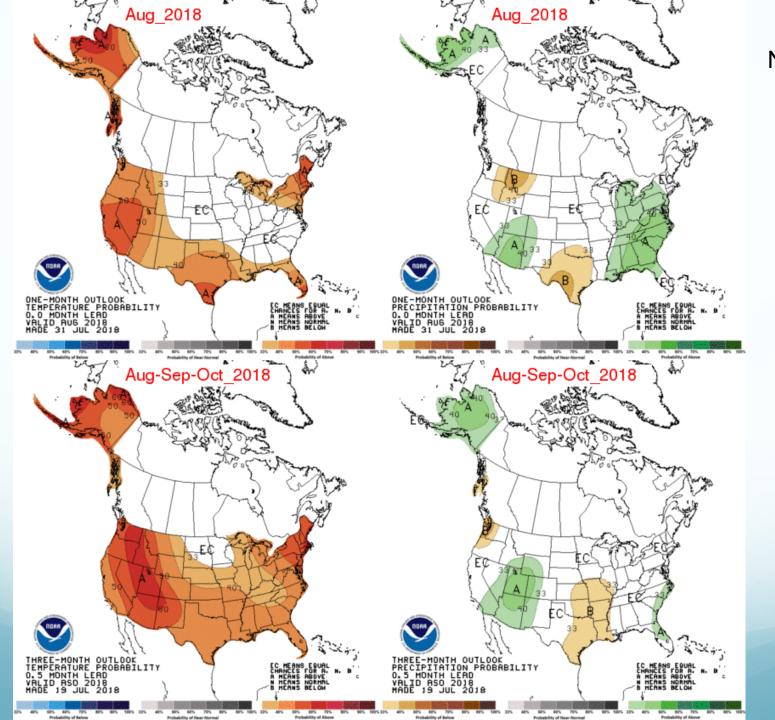


Climate Model Projections for Sep 2018 Precipitation



CFSv2 seasonal z700 anomalies (m; shaded) and total (dm; contours)/CPC





NOAA/CPC Forecasts

Final Remarks

- This summer has played out more or less as expected
- No sign of an early onset of fall rains
- El Niño of weak-moderate intensity is likely by fall to persist through winter; go short on tire chains
- Here's hoping my wading pool can last at least through Labor Day