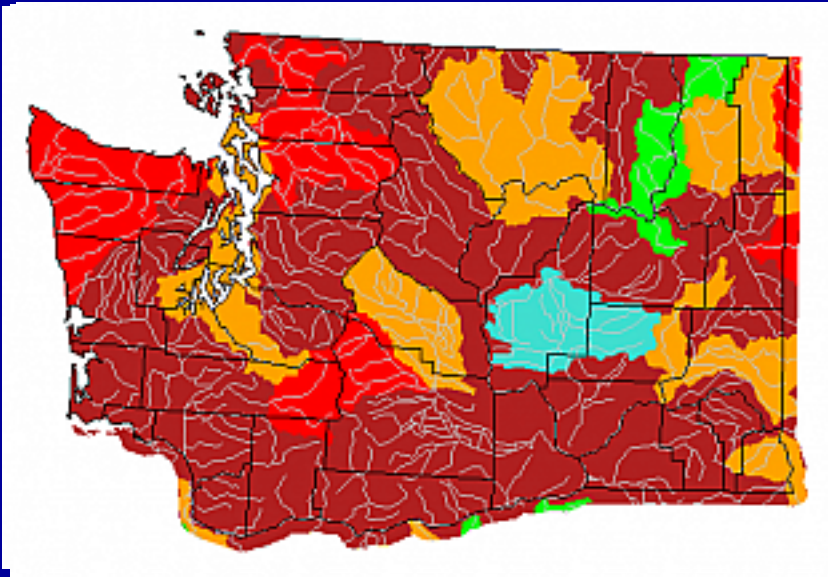


Streamflow Conditions in Washington State as of March 4-6, 2019

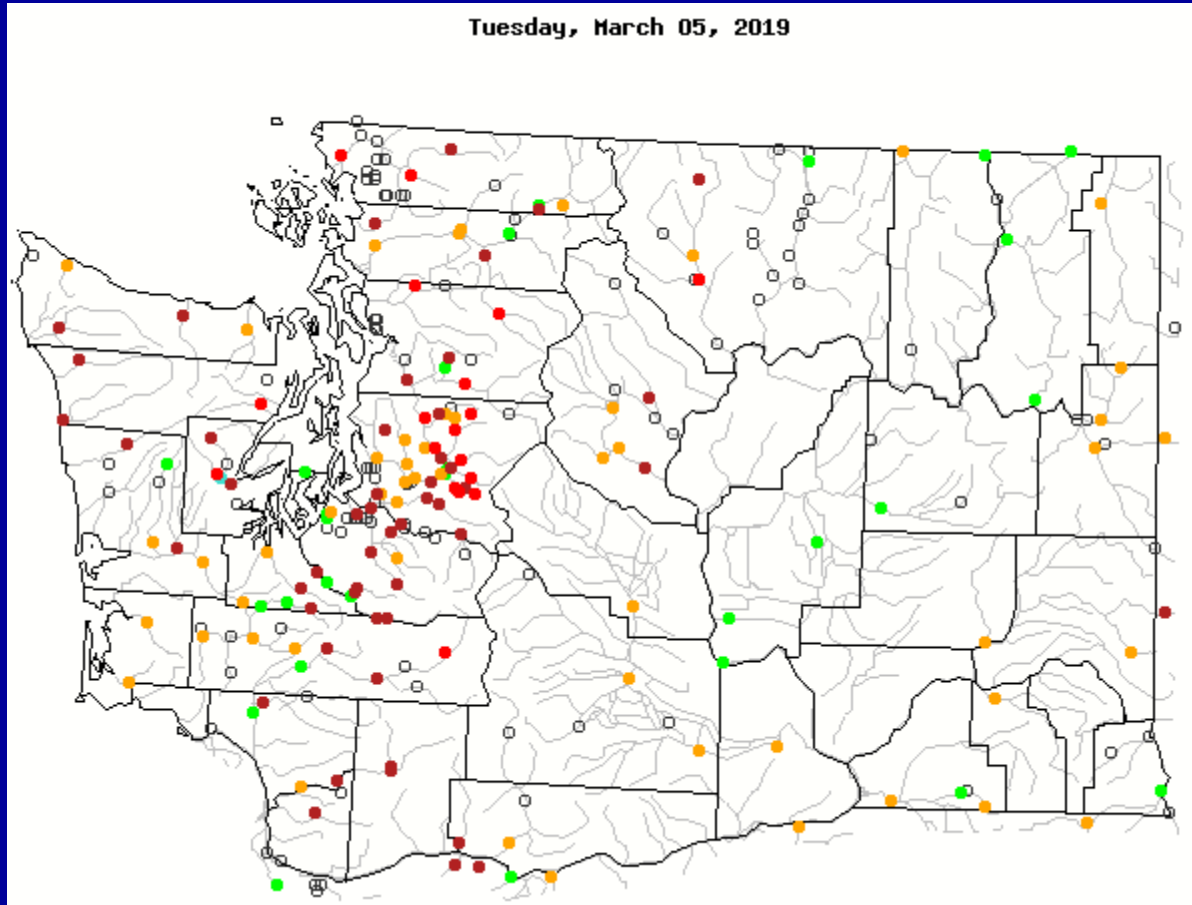
Presented by Mark Mastin to the Washington State
Water Supply Availability Committee
March 7, 2019











The story this month is a transition from lots of lowland snow and normal flows to cold, dry weather and low flows. How does this compare to drought year 2015?

June 2015

7-day Average Streamflow (for day of the year)

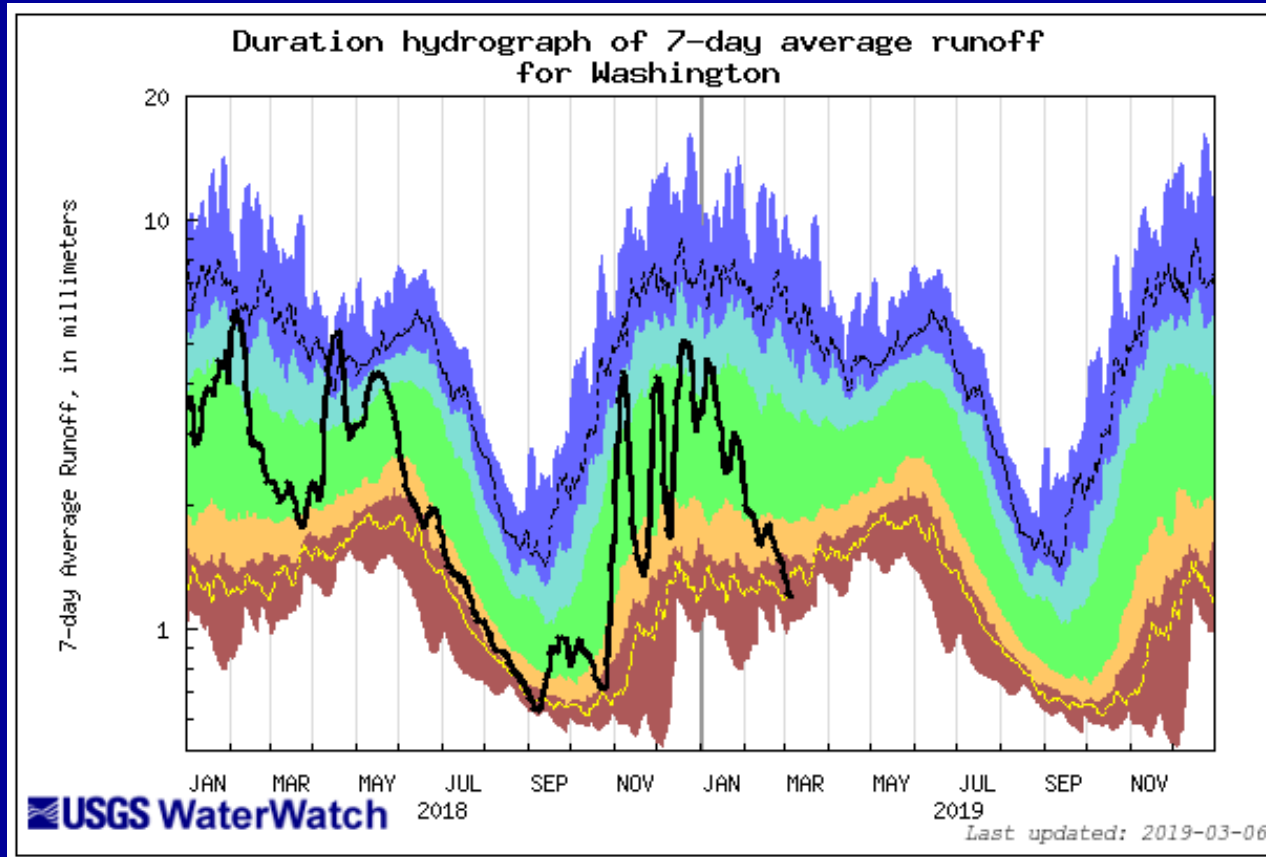


March 05, 2019

Explanation - Percentile classes							
							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Duration Hydrograph, Washington State

7-day Average Streamflow (updated March 05, 2019)

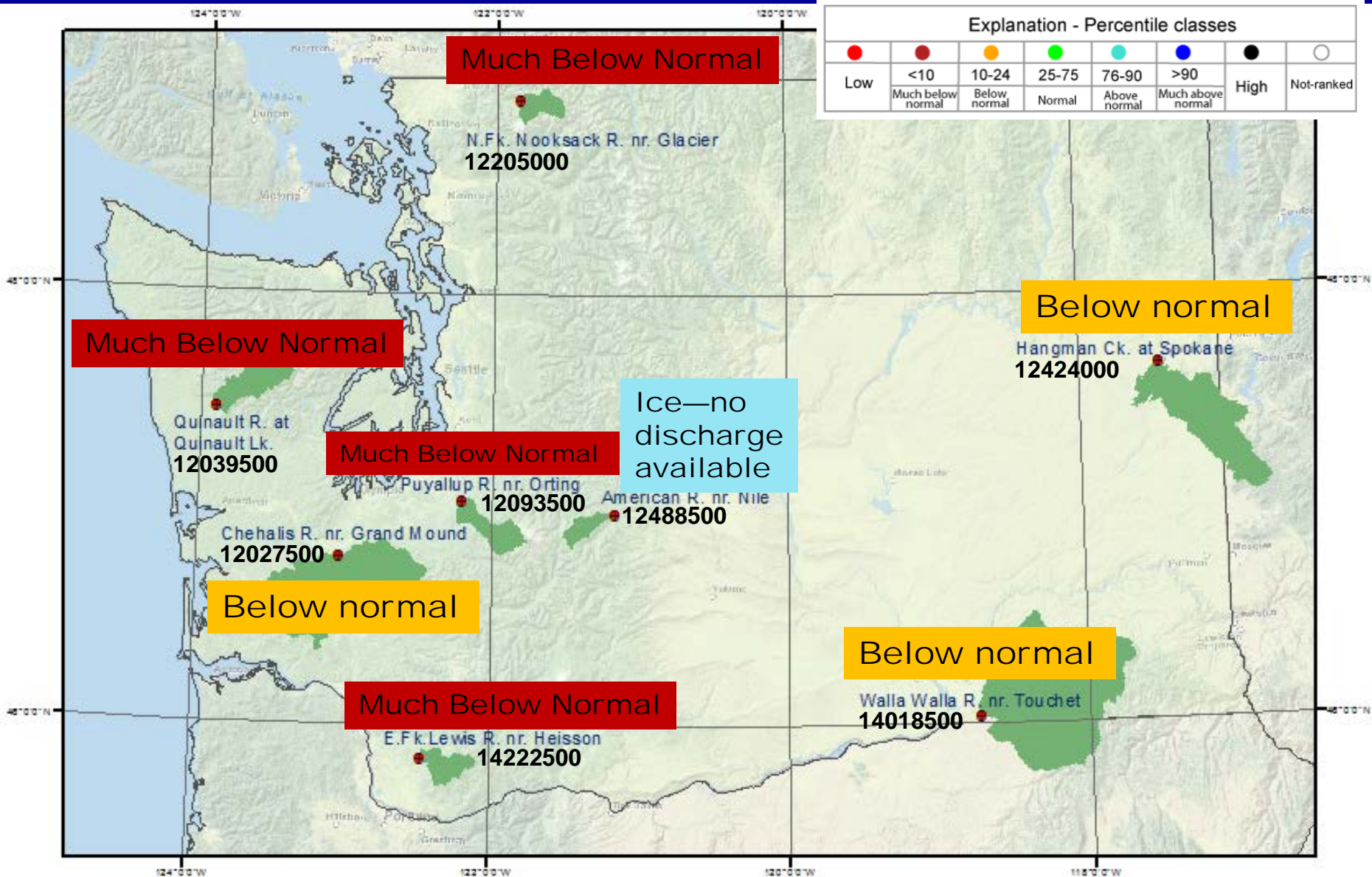


As of March 6, 2019, statewide 7-day average flows are below the 5th percentile, which is in the Much Below Normal category

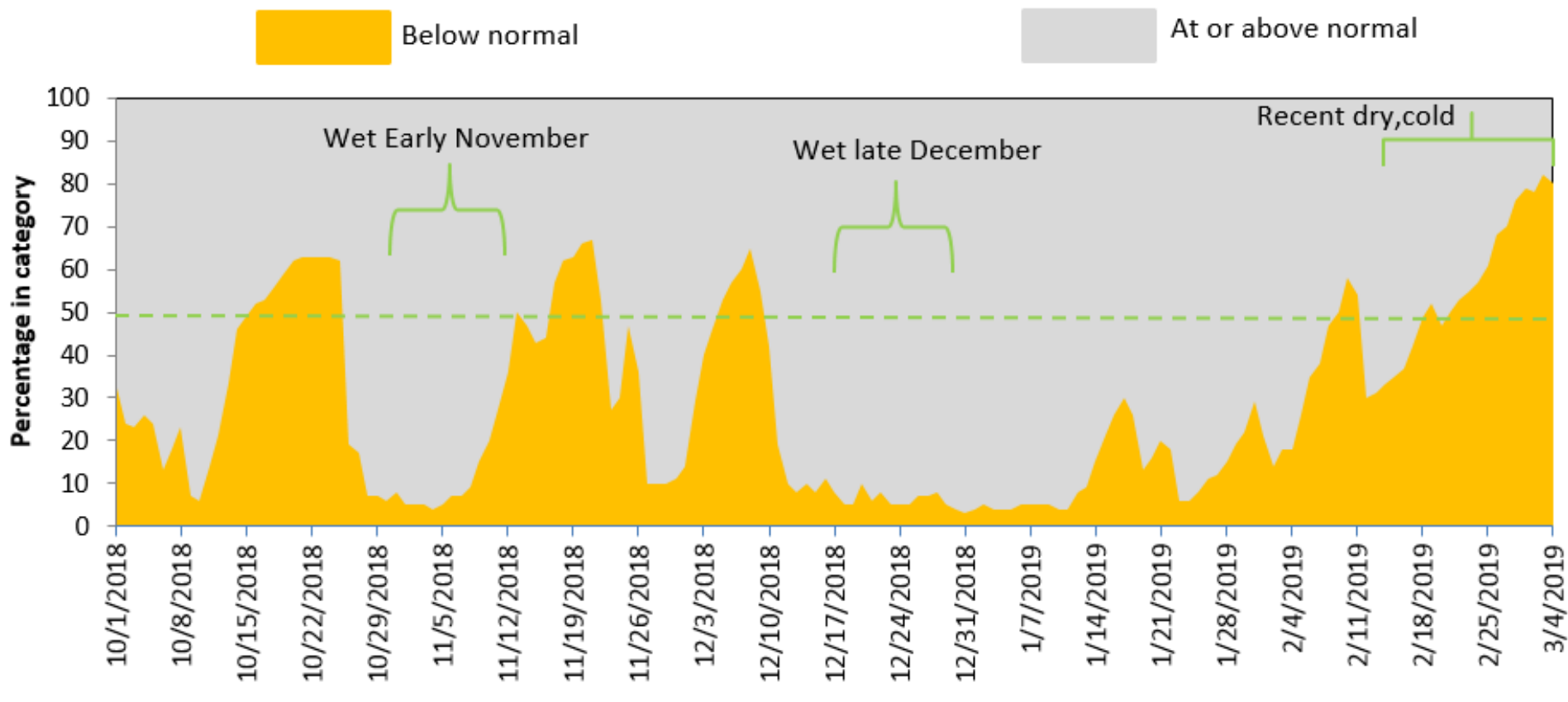
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

Index Gaging Stations, 7-day average streamflow (as of March 05, 2019)

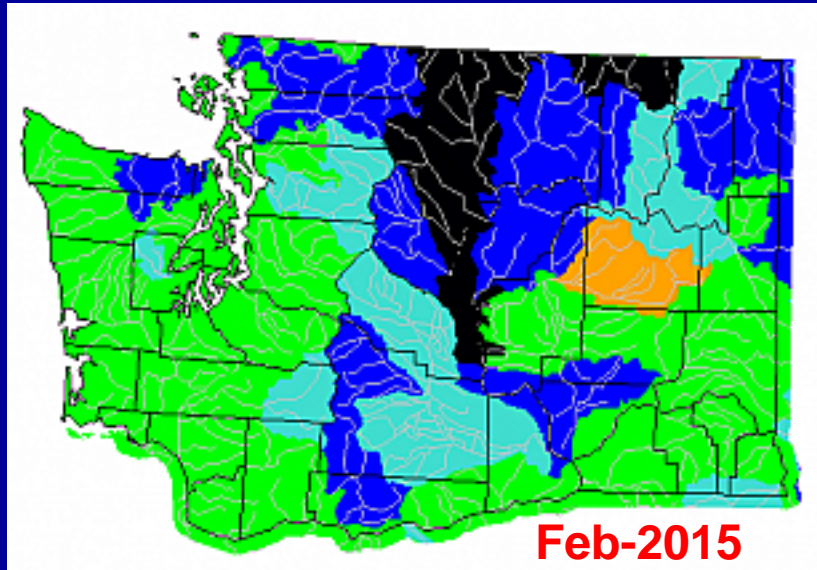
Explanation - Percentile classes							
●	●	●	●	●	●	●	○
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked



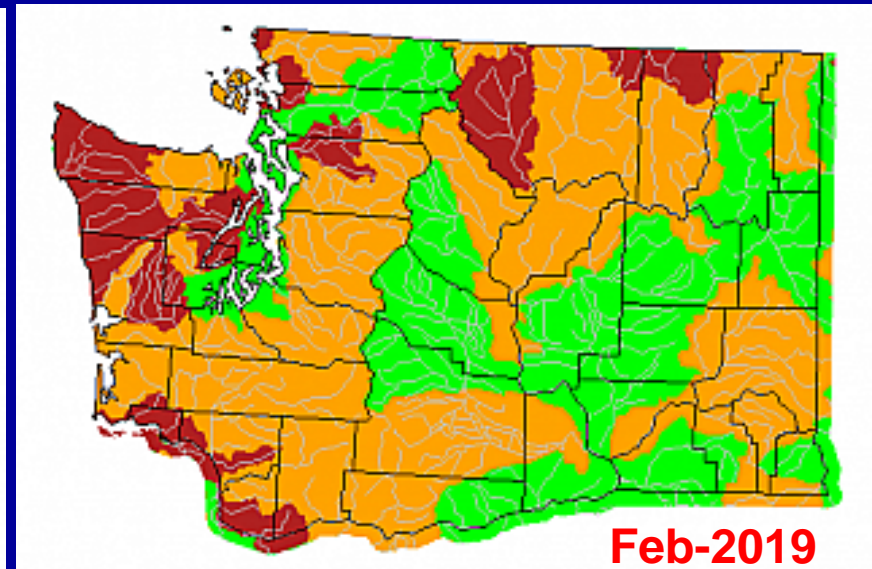
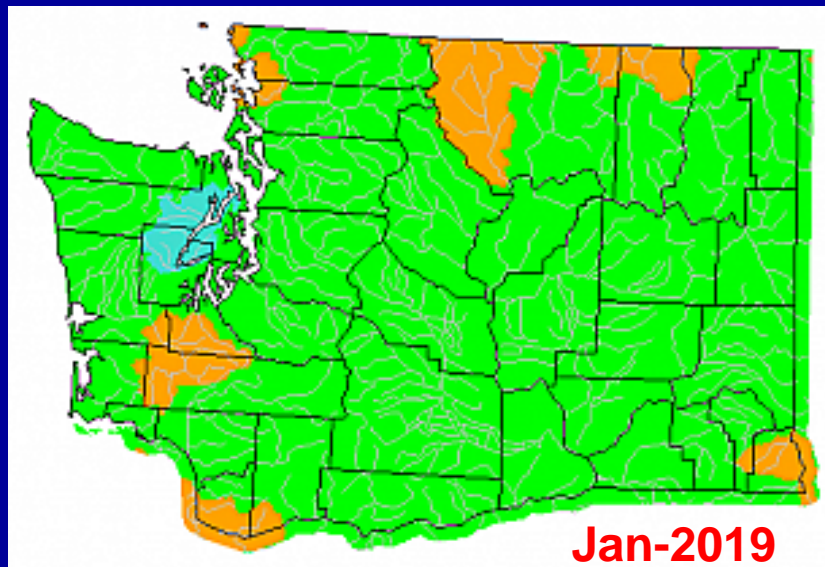
Daily streamflow in Washington Rivers compared to historical streamflow, October 01, 2018 – March 4, 2019



February 2015 and January and February 2019 Monthly Streamflow



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	
	Much below normal	Below normal	Normal	Above normal	Much above normal		



Groundwater Conditions

October 1, 2018 to March 6, 2019

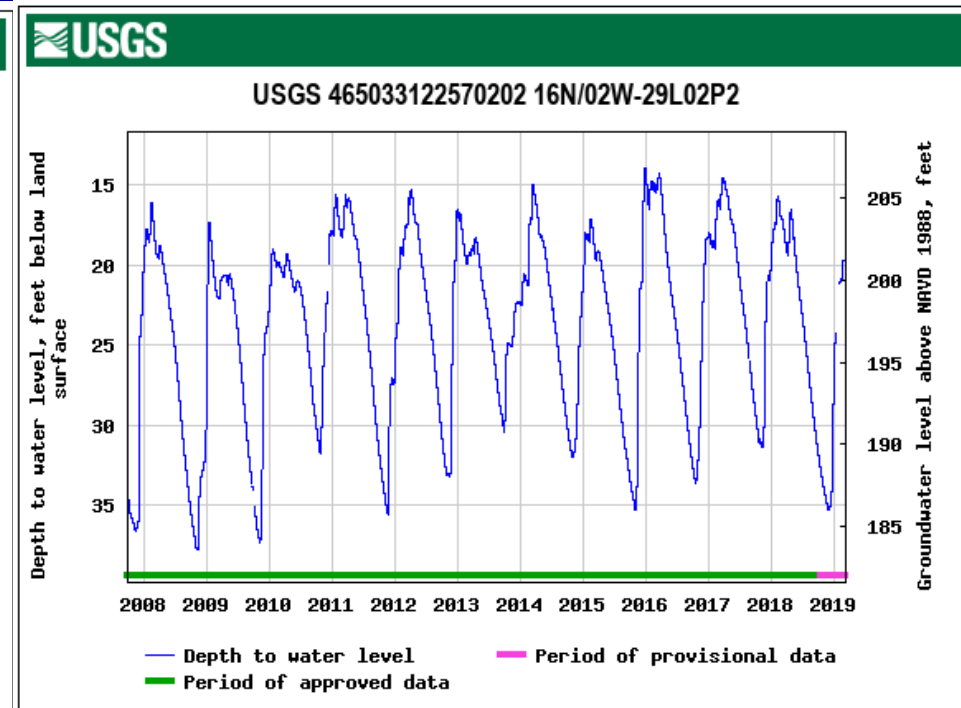
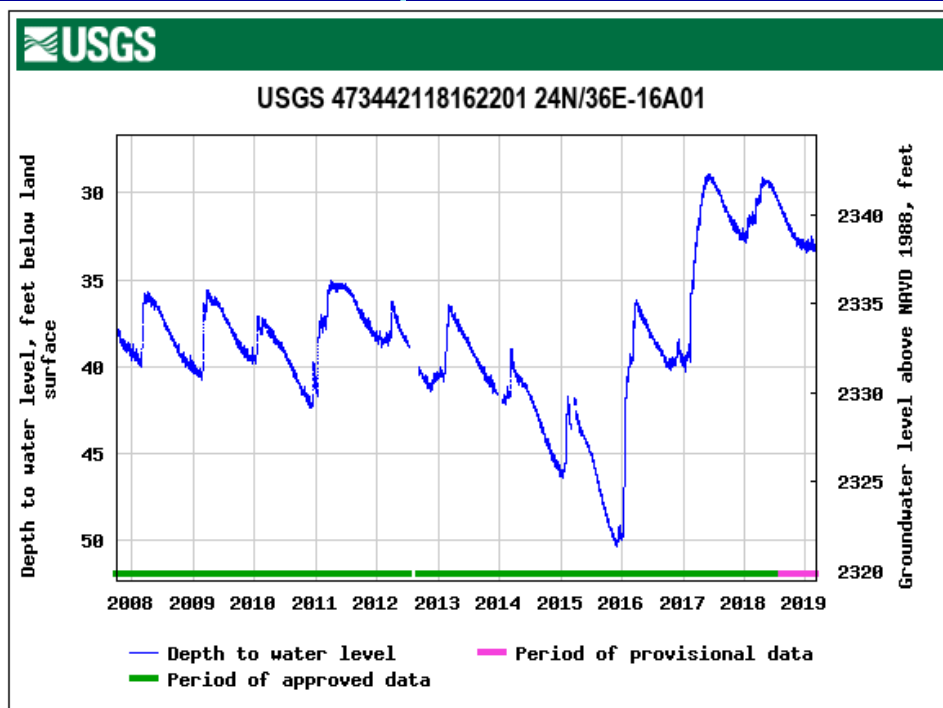
and Oct. 1, 2007 to March 6, 2019

Davenport well

- 117-ft deep
- Wanapum Basalt

Scatter Creek well

- 82-ft deep
- Sand and gravel



Summary

Streamflow and Groundwater Conditions as of March 4-6, 2019

- ✓ 7-day average streamflow statewide is mostly below normal to record lows throughout most of the western two-thirds of the State. The eastern third of the State is mostly normal to below normal.
- ✓ As of March 4, daily mean streamflow is at normal and above at 20 percent of the 142 reporting streamflow sites.
- ✓ 7-day average streamflow at seven index gaging stations is:
 - Much below normal at 4 sites and below normal at 3 sites
- ✓ Groundwater level in the eastern Washington well is still above normal and Scatter Creek is a bit lower than where it usually is this time of year.