

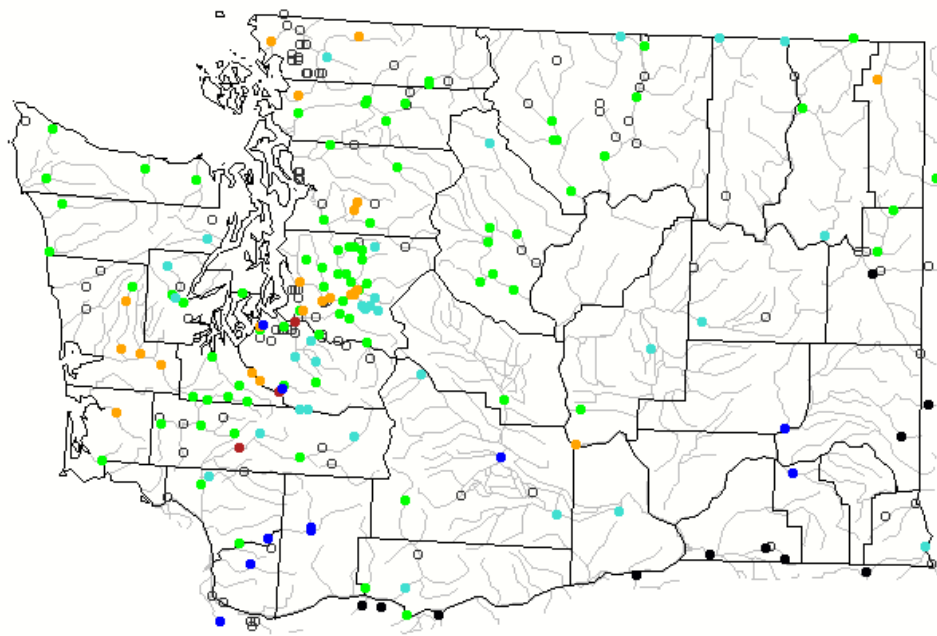
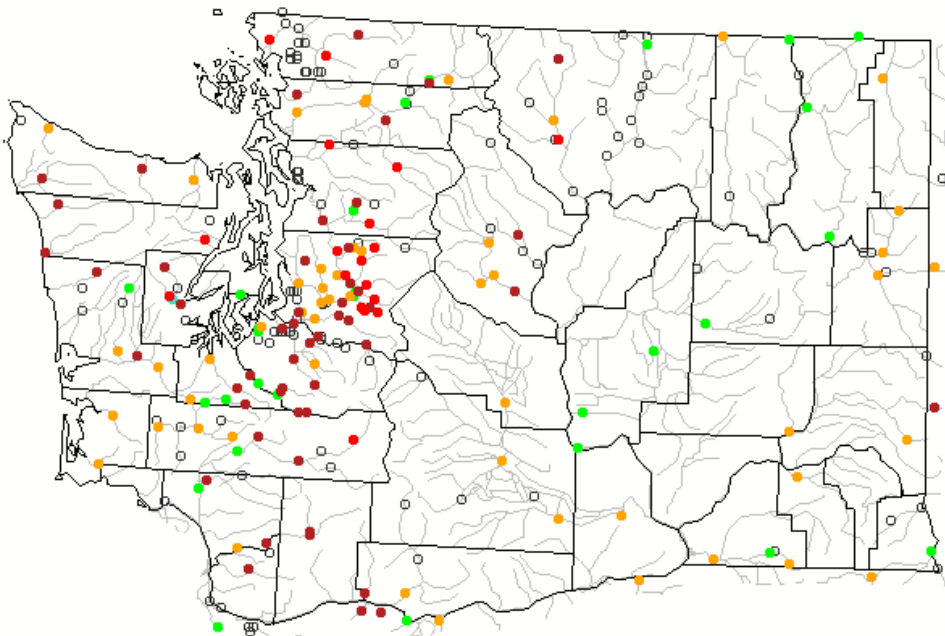
Streamflow Conditions in Washington State as of April 8-11, 2019

Presented by Mark Mastin to the Washington State
Water Supply Availability Committee
April 12, 2019

Tuesday, March 05, 2019

7-day average flows

Wednesday, April 10, 2019



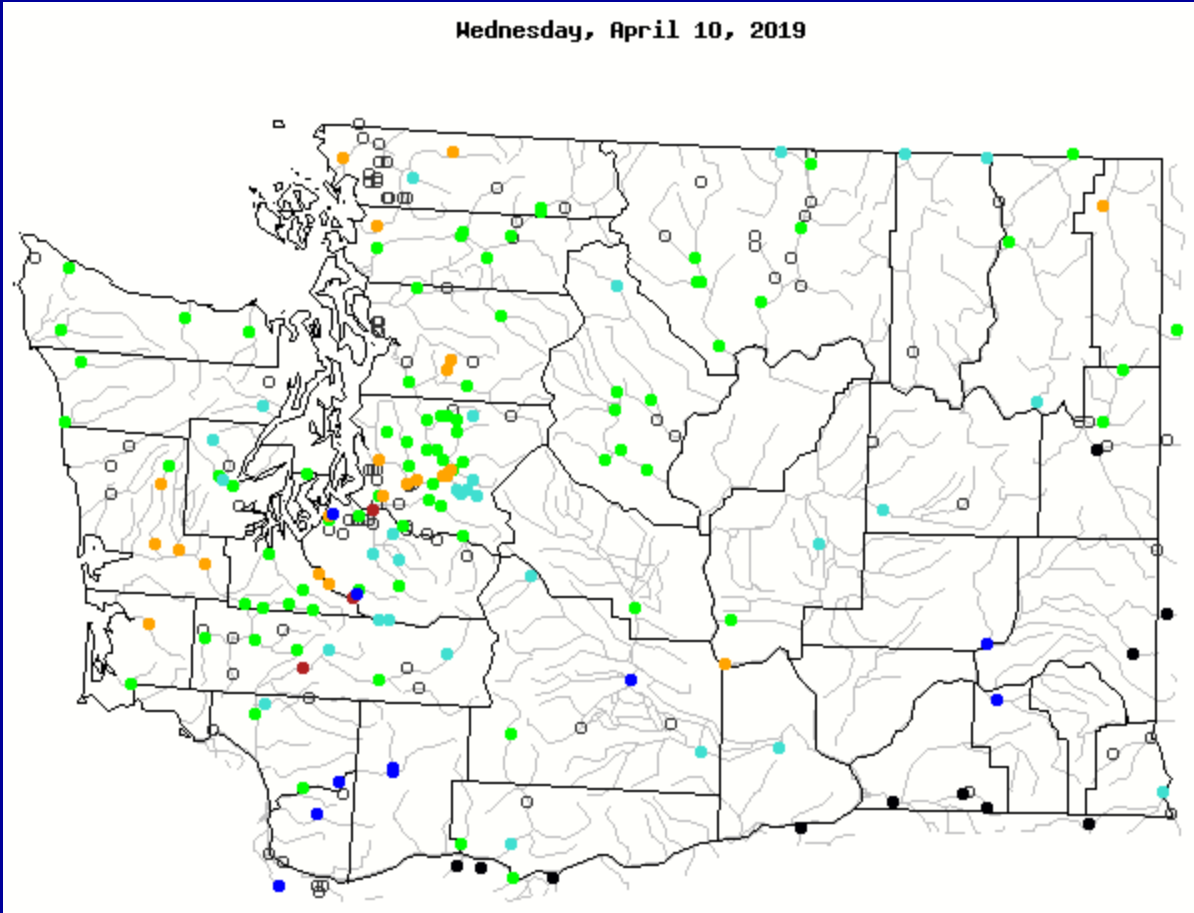
March 5th

April 10th









This month's story is a transition from much below normal
to normal and above normal flows

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

Wednesday, April 10, 2019

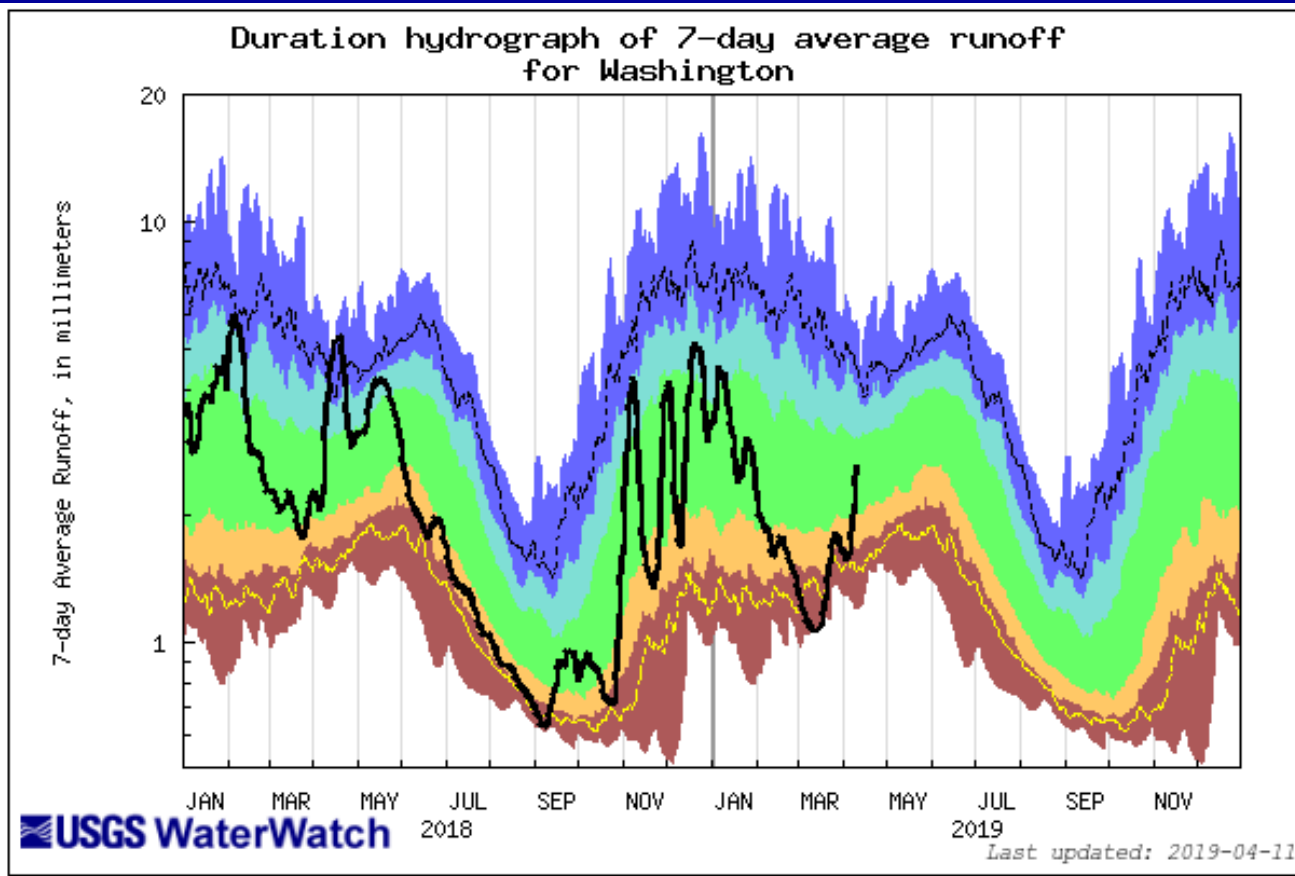


April 10, 2019

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

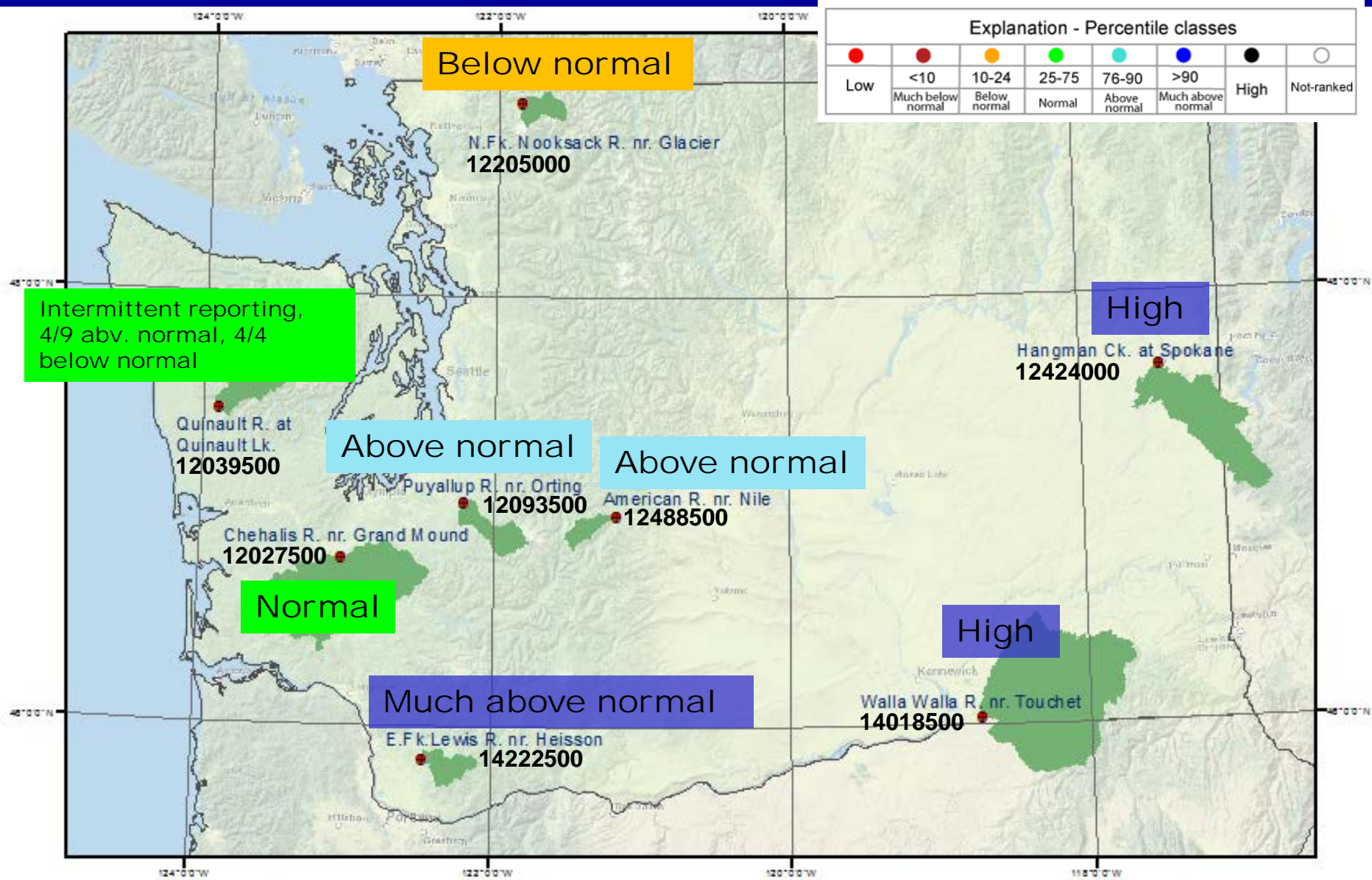
7-day Average Streamflow (updated April 11, 2019)



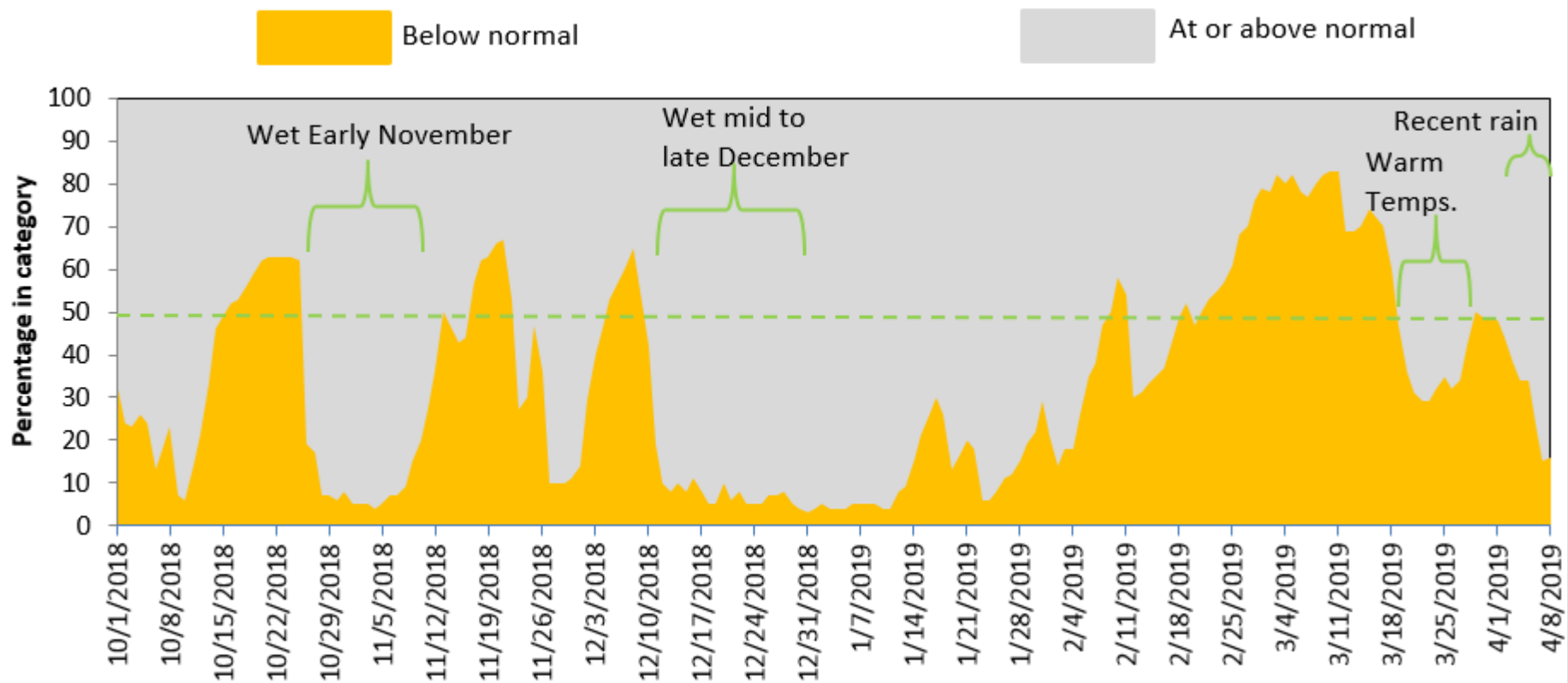
As of April 11, 2019, statewide 7-day average flows are in the Normal percentile range

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 April 10, 2019)

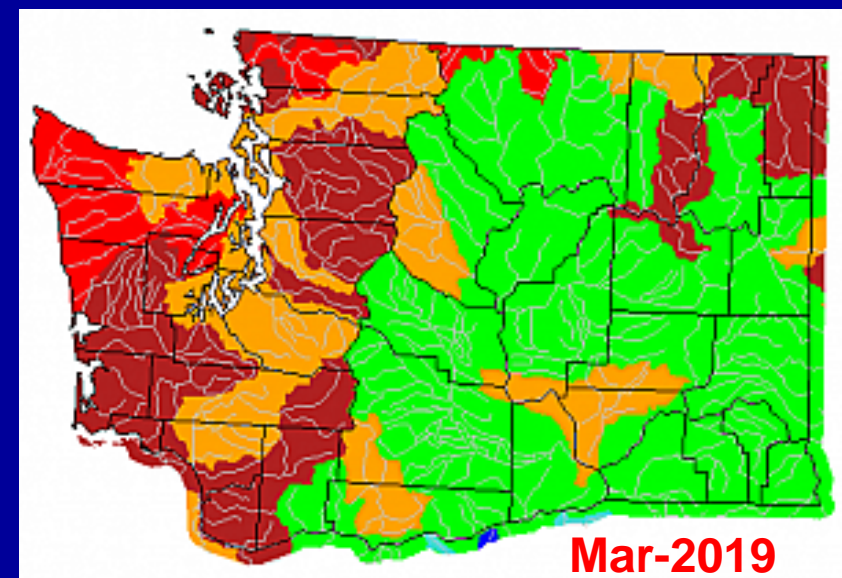
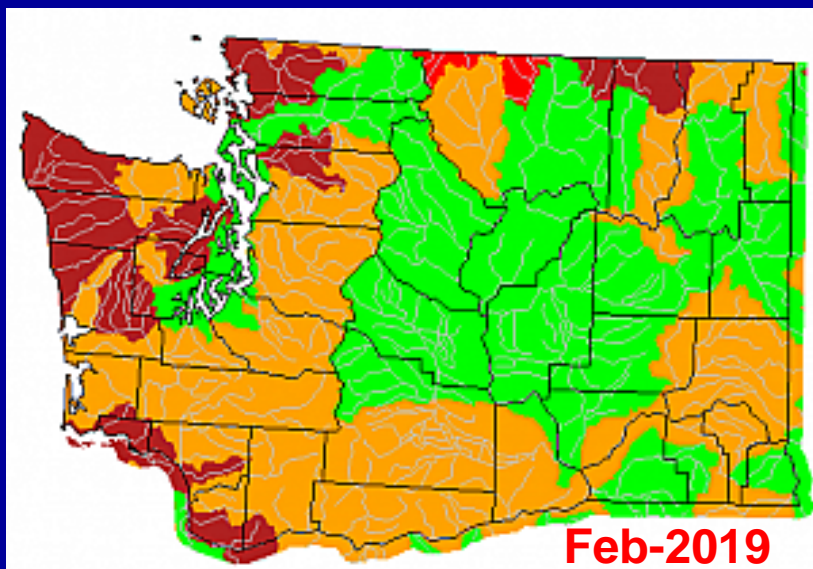
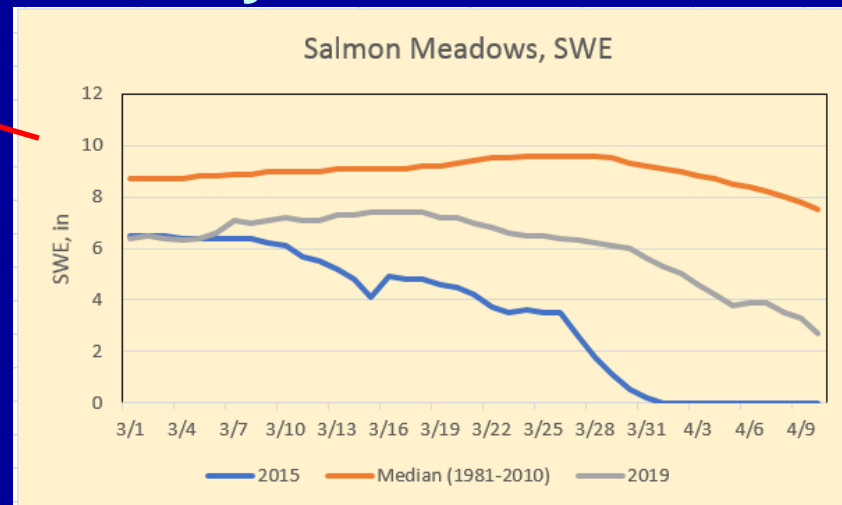
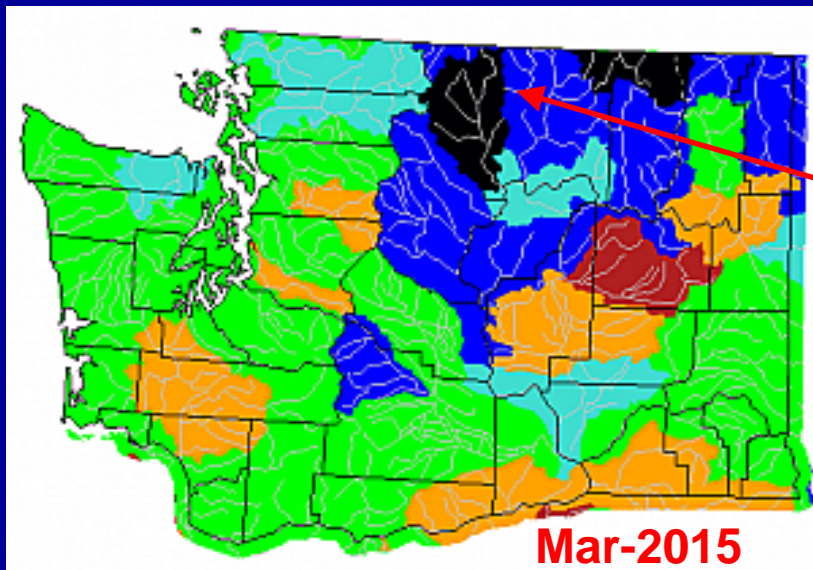


Daily streamflow in Washington Rivers compared to historical streamflow, October 01, 2018 – April 8, 2019



March 2015 and February and March 2019

Monthly Streamflow



Groundwater Conditions

October 1, 2018 to April 10, 2019

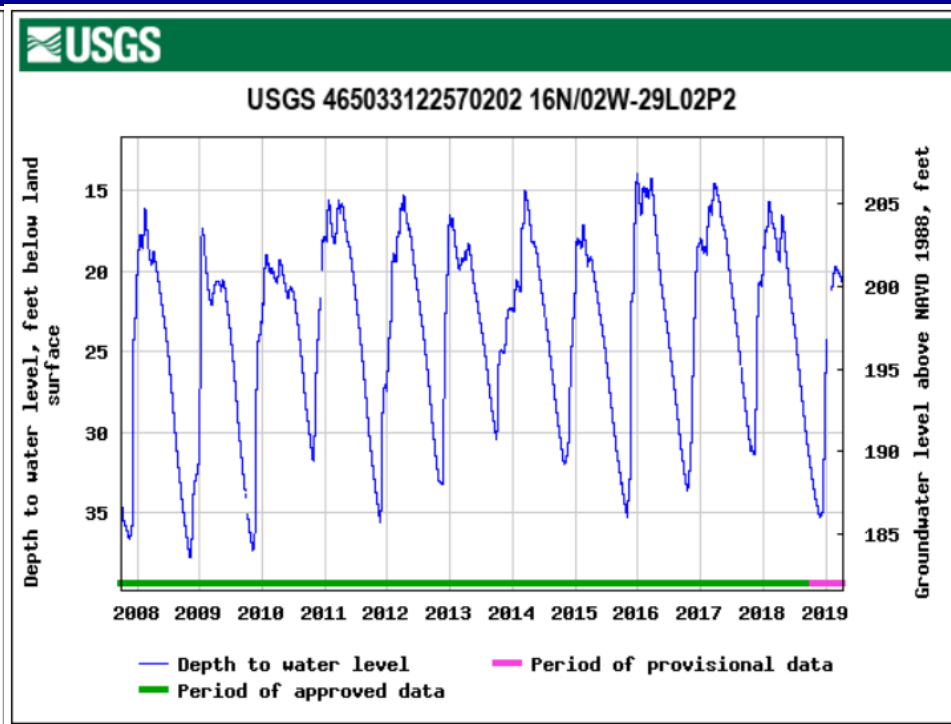
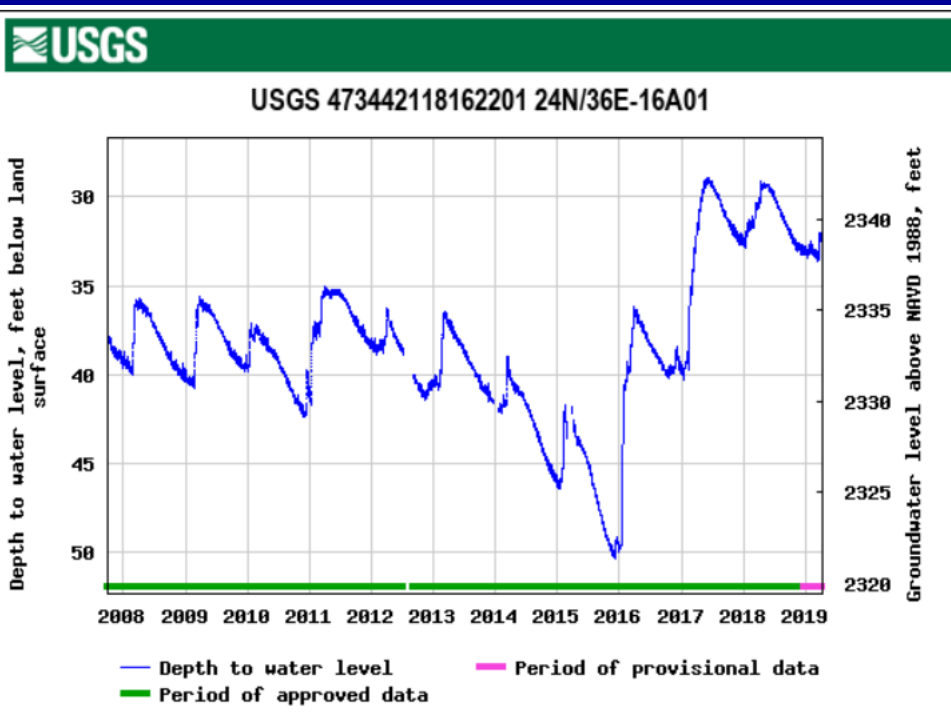
and Oct. 1, 2007 to April 10, 2019

Davenport well

- 117-ft deep
- Wanapum Basalt

Scatter Creek well

- 82-ft deep
- Sand and gravel



Summary

Streamflow and Groundwater Conditions as of April 8-10, 2019

- ✓ 7-day average streamflow is mostly above normal to high along the southern and eastern borders of the State. It is mostly normal to above normal in the rest of the State with some below normal sites in the Coastal and Puget Sound regions.
- ✓ As of April 8, daily mean streamflow is at normal and above at 85 percent of the 143 reporting streamflow sites.
- ✓ 7-day average streamflow at eight index gaging stations were:
 - Ranged from much above normal to high at the 3 sites along the southern and eastern borders, above normal at the 2 Cascades sites, normal at the two coastal draining rivers, and below normal at the N.Fk. Nooksack River.
- ✓ Groundwater level in the eastern Washington well showed a 1 ft. upward jump recently and is still above normal. The Scatter Creek well did not respond to recent rains and it is a bit lower than where it usually is this time of year.