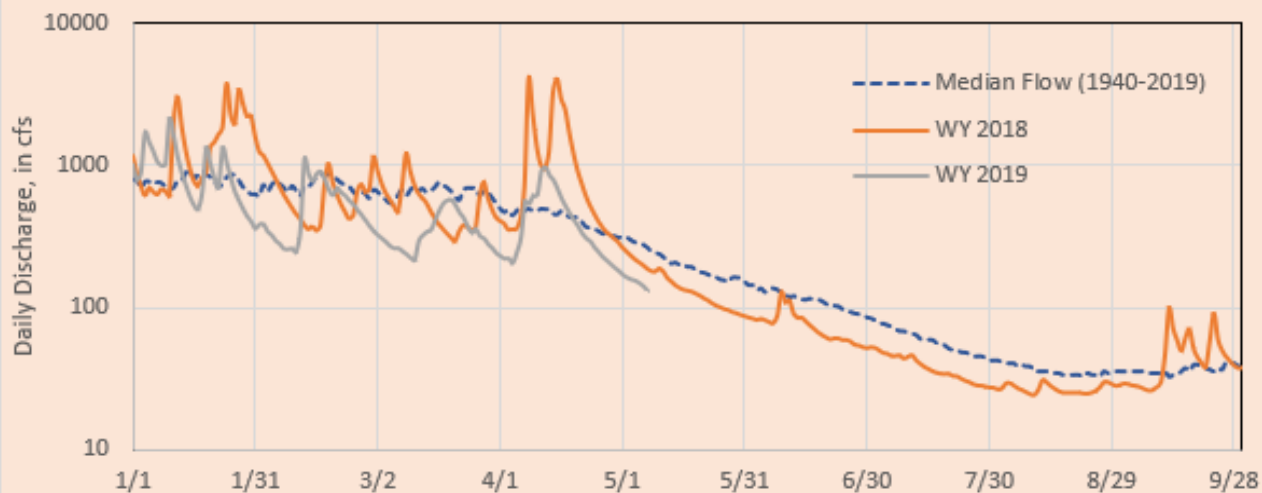


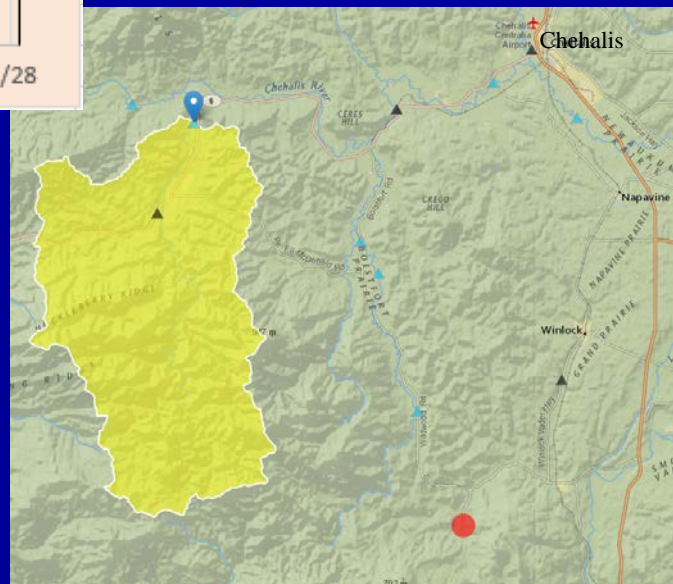
Streamflow Conditions in Washington State as of May 7-8, 2019

Presented by Mark Mastin to the Washington State
Water Supply Availability Committee
May 9, 2019

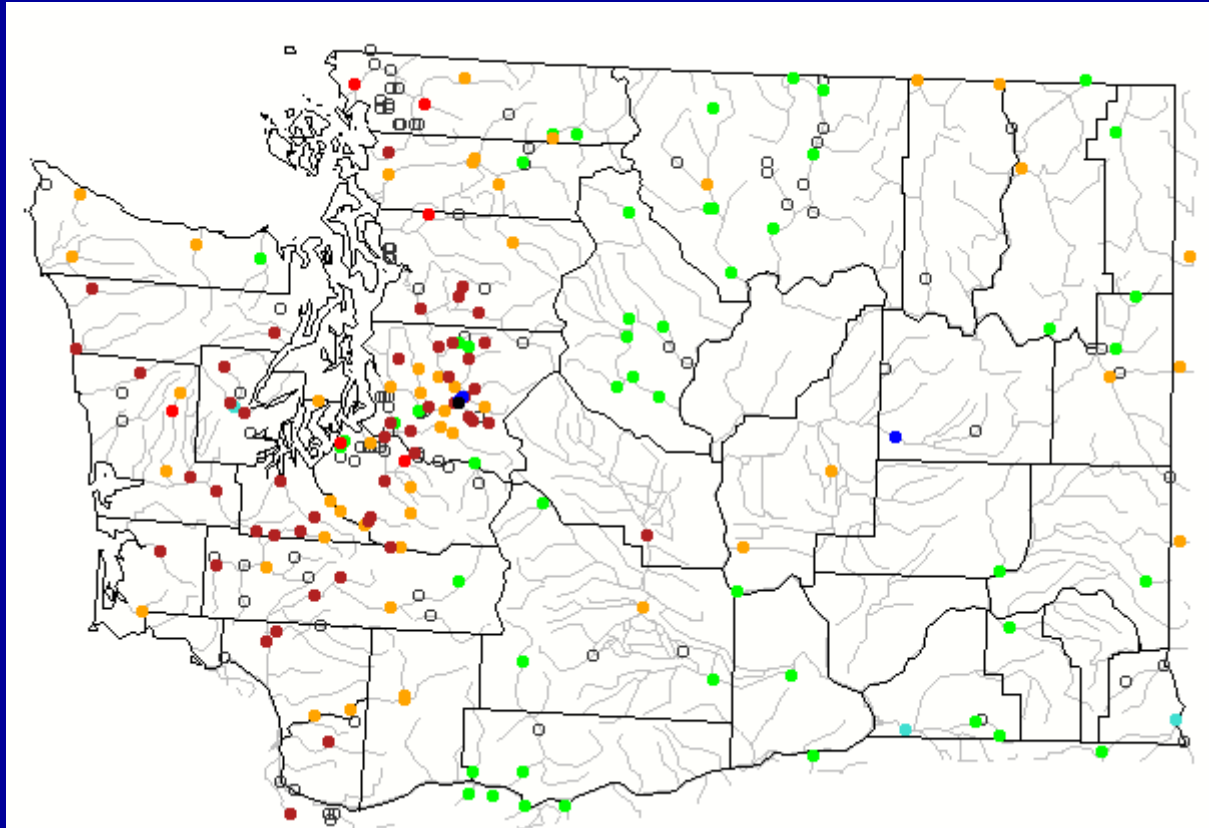
Chehalis River near Doty, Sta. # 12020000



Could the Upper Chehalis River Basin (yellow on map)
be an analog basin for Ryderwood (red dot)?











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



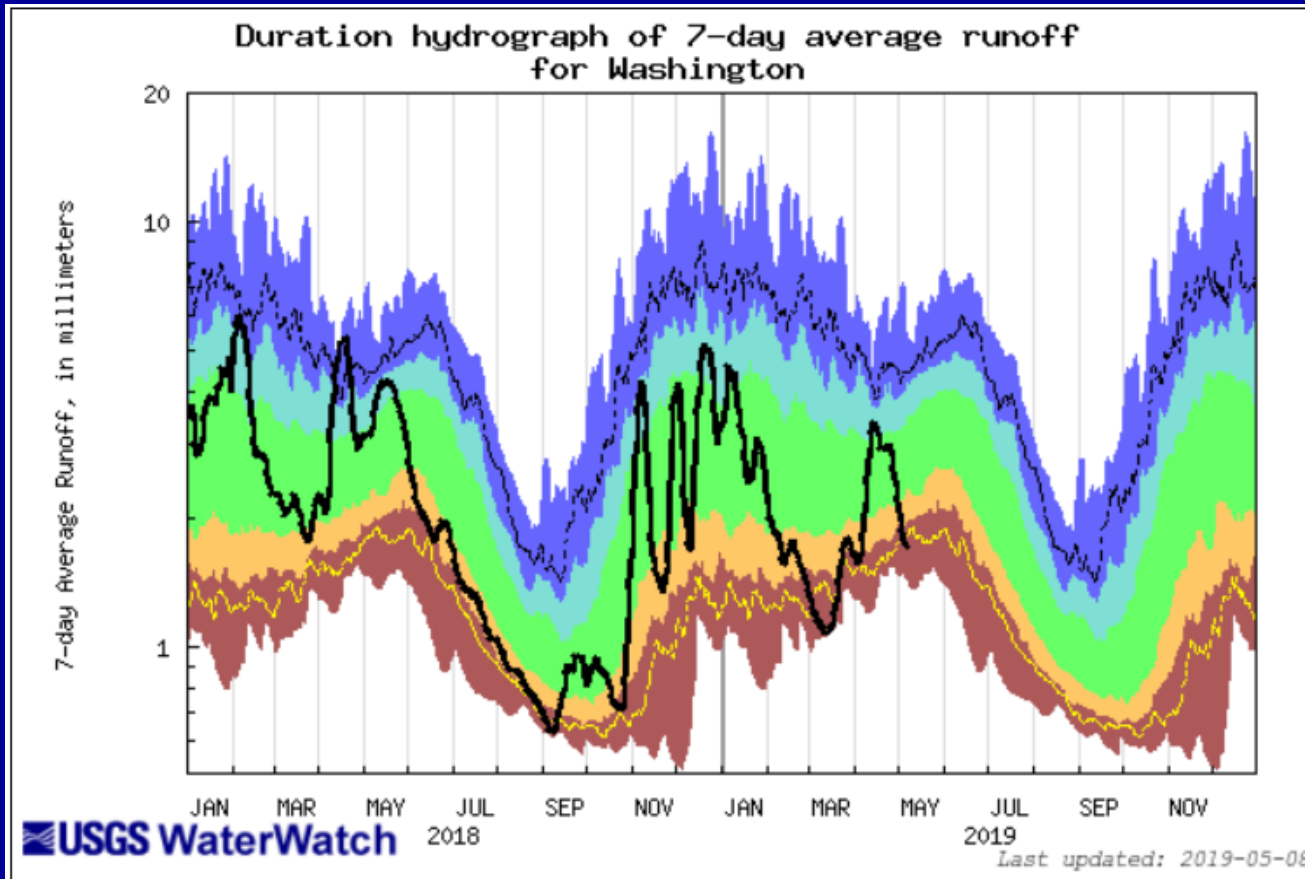
Back to
very low
flows on the
west side

May 07, 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

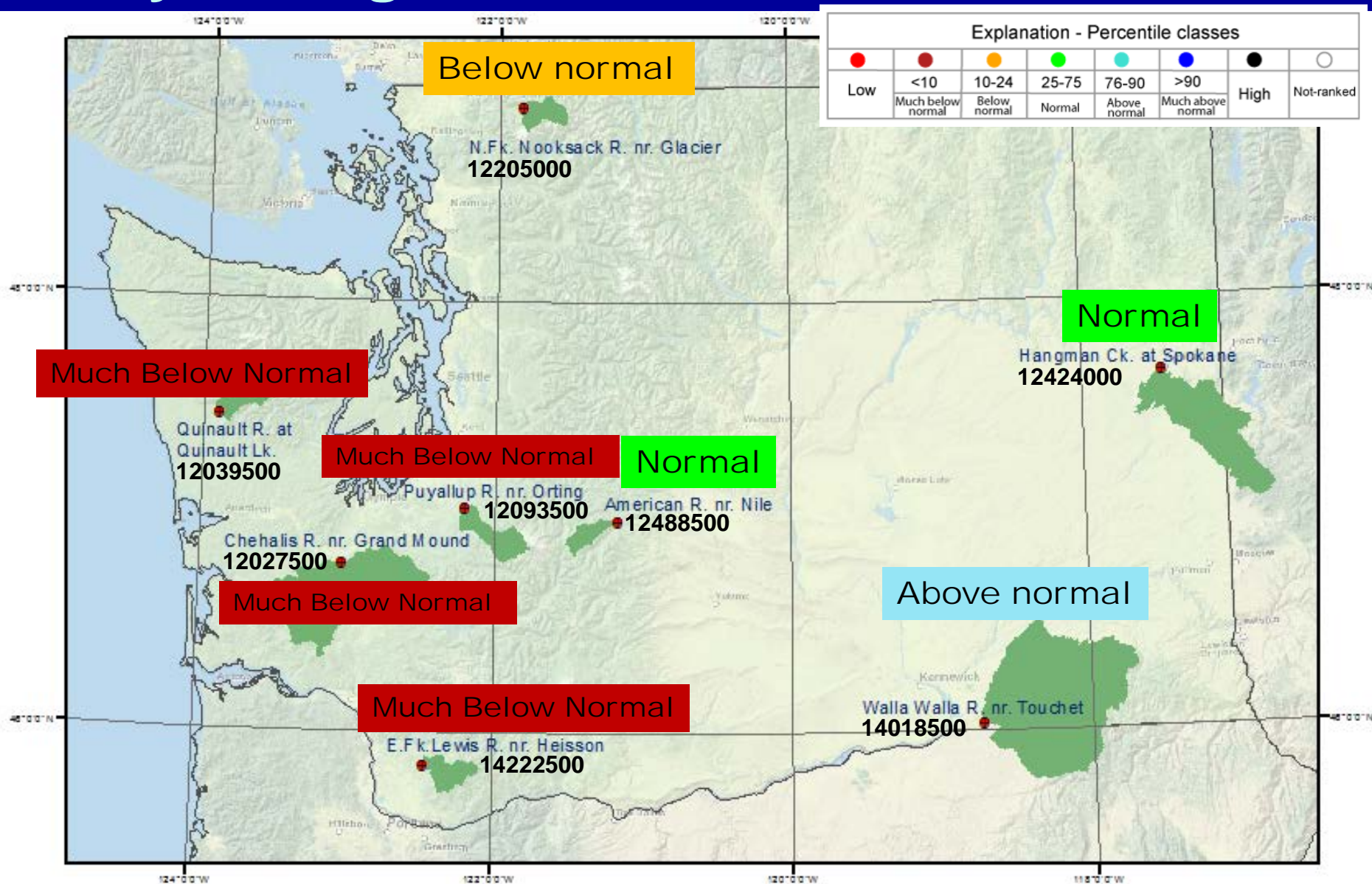
7-day Average Streamflow (updated May 8, 2019)



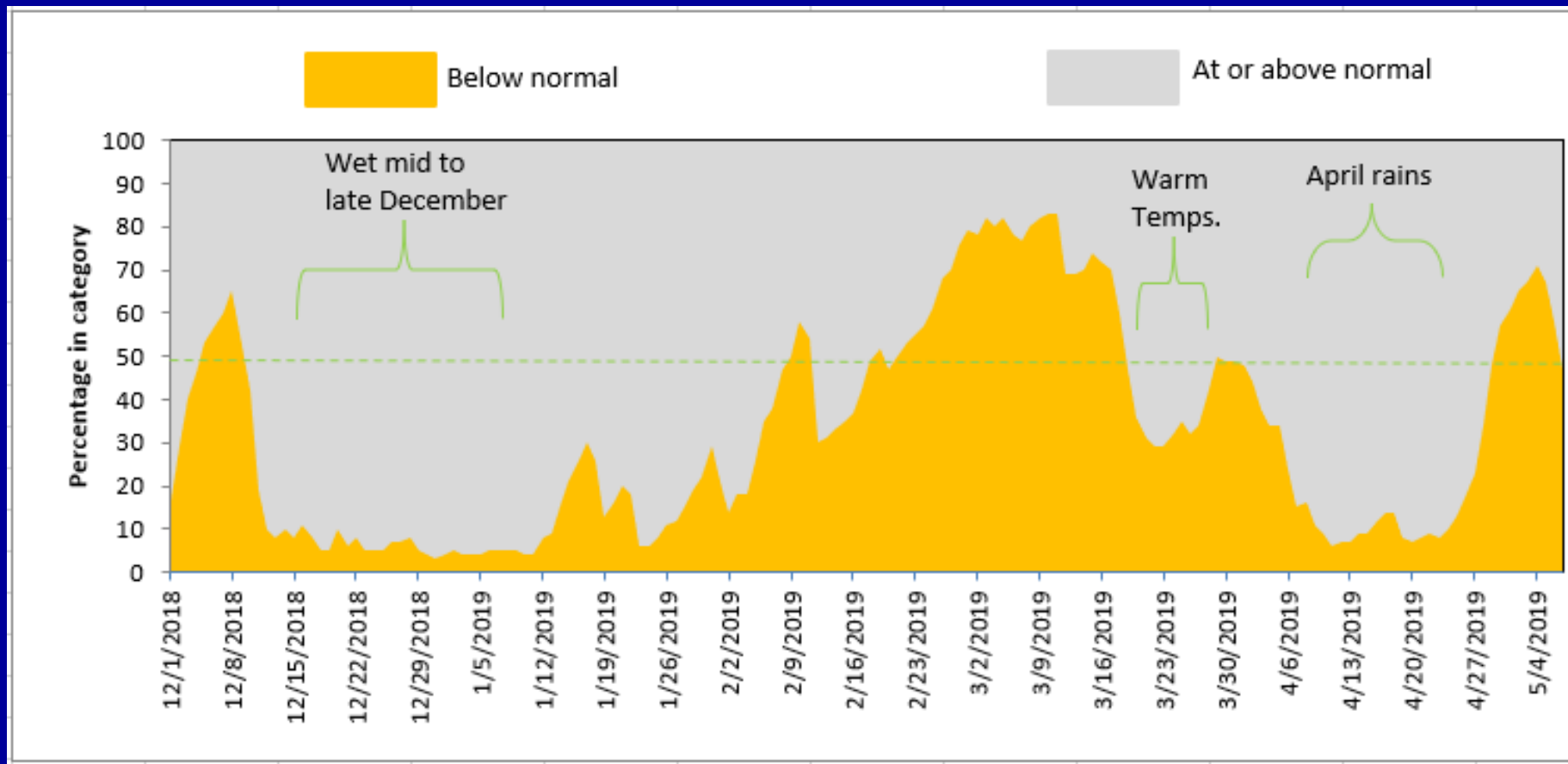
As of May 8, 2019, statewide 7-day average flows are in the Much Below Normal percentile range (5% of normal)

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 May 7, 2019)

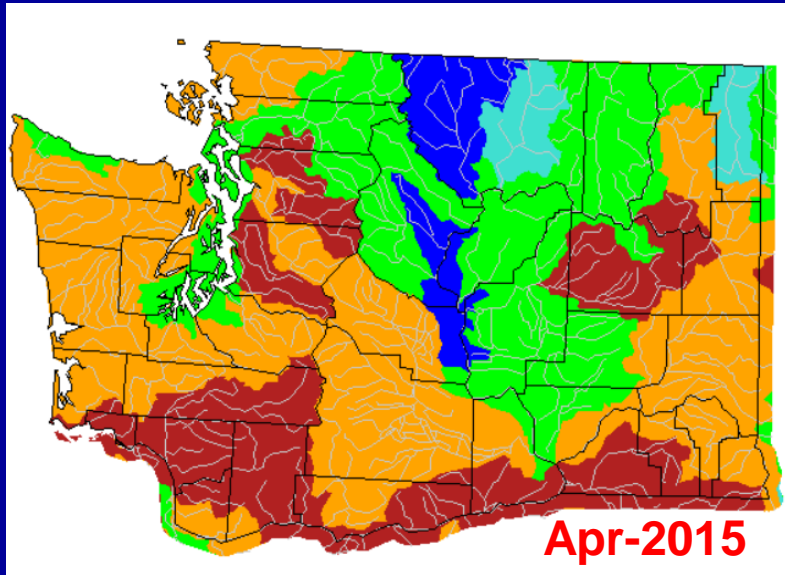


Daily streamflow in Washington Rivers compared to historical streamflow, December 01, 2018 – May 7, 2019

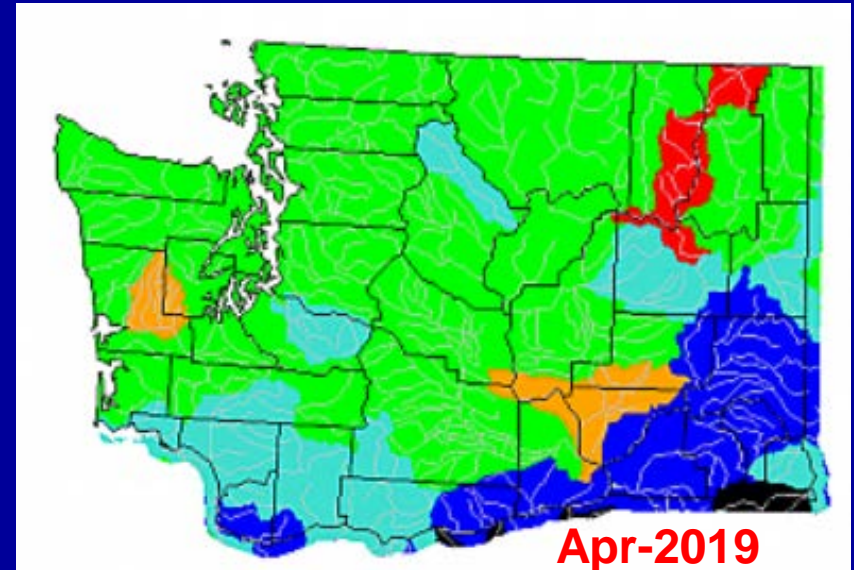
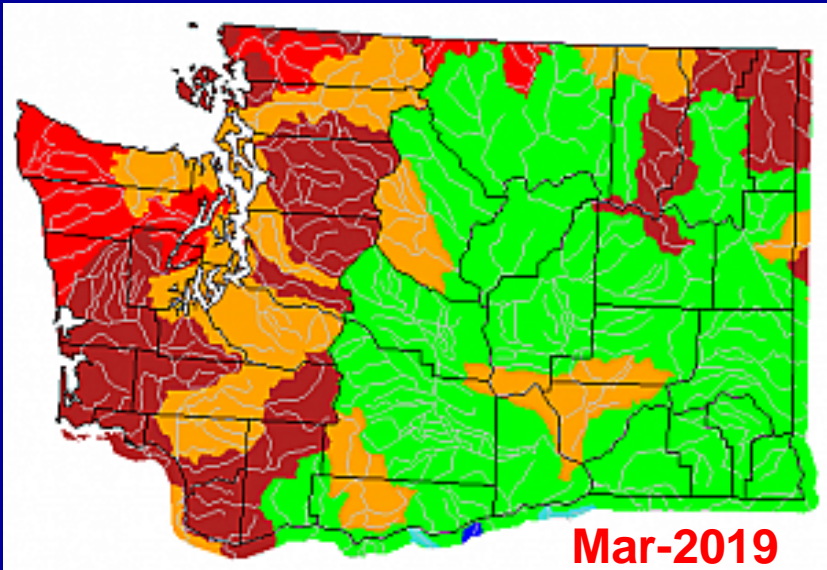


April 2015 and March and April 2019

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

January 1, 2019 to May 8, 2019

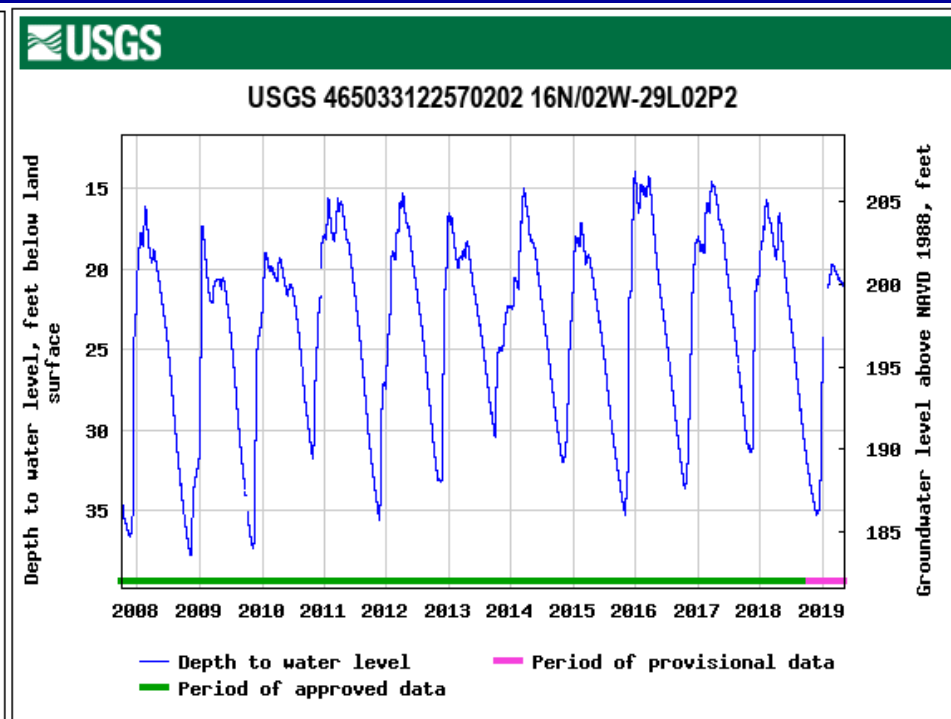
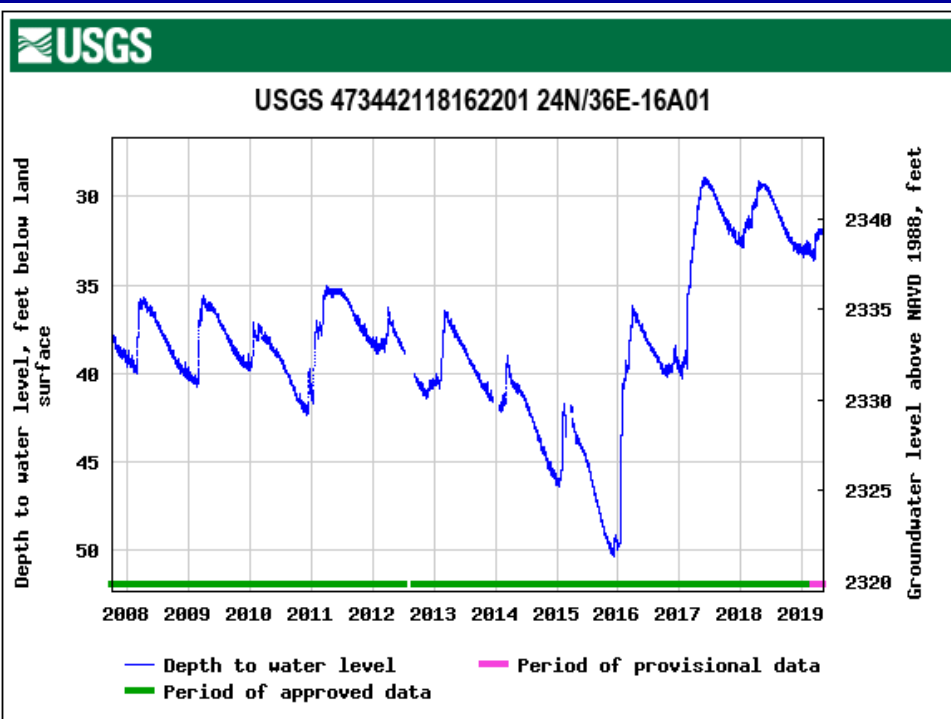
and Oct. 1, 2007 to May 8, 2019

Davenport well

- 117-ft deep
- Wanapum Basalt

Scatter Creek well

- 82-ft deep
- Sand and gravel



Summary

Streamflow and Groundwater Conditions as of May 7-8, 2019

- ✓ 7-day average streamflow is mostly much below normal to below normal on the west side of the state with several record 7-day low flows for the day. It is mostly below normal to normal on the east side of the State.
- ✓ As of May 7, daily mean streamflow is at normal and above at 47 percent of the 152 reporting streamflow sites.
- ✓ 7-day average streamflow at eight index gaging stations:
 - Ranged from Much Below Normal at four west-side stations to one Below Normal for the remaining west-side station to two Normal and one Above Normal at the 3 east-side stations.
- ✓ Groundwater level in the eastern Washington well showed a gradual rise over the last month and is still above normal. The Scatter Creek well levels have been slowly dropping over the last couple of months and it is lower than where it usually is this time of year.