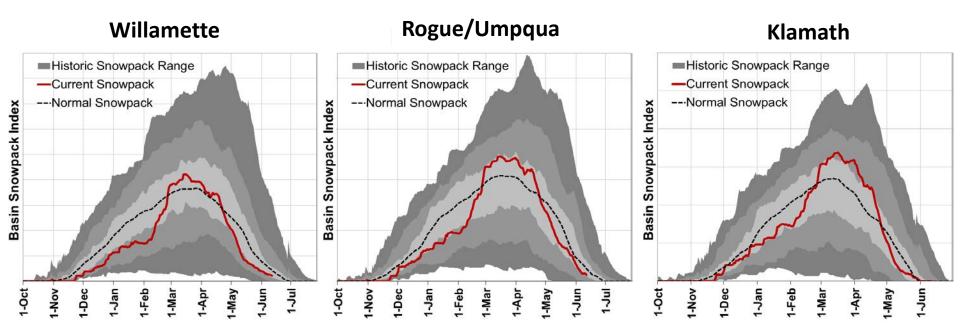
Oregon Water Supply Availability Committee June 11, 2019

Snow Mountain SNOTEL Tree Removal May 21, 2019 Elevation 6230'

H. Scott Oviatt USDA – Natural Resources Conservation Service scott.oviatt@usda.gov 503-414-3271

Water Year 2019 – June 11th

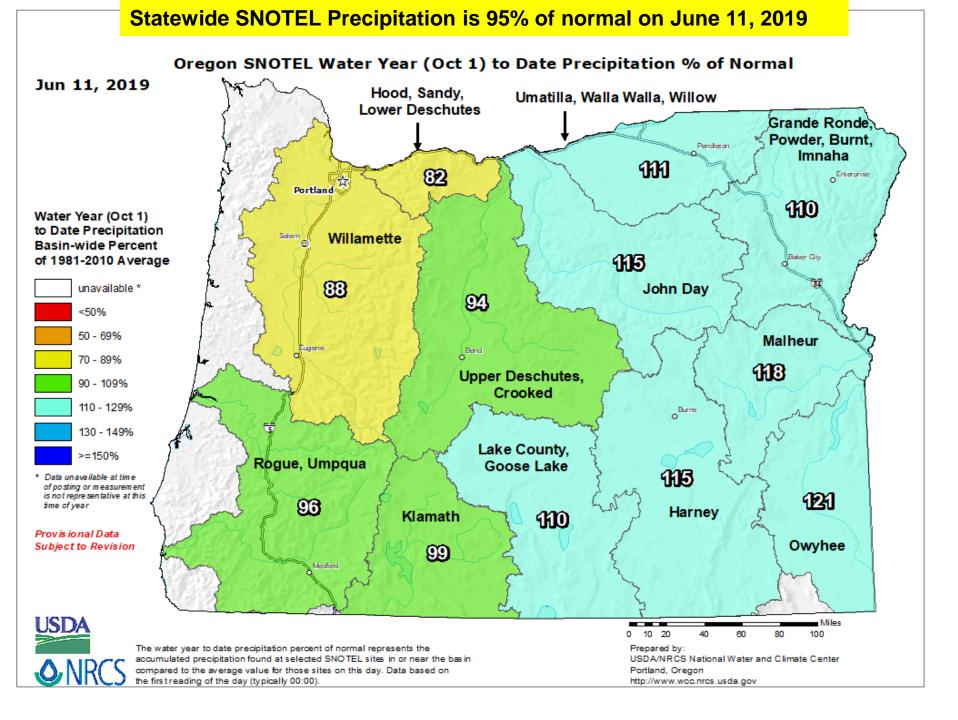


John Day

Grande Ronde/Powder/Burnt

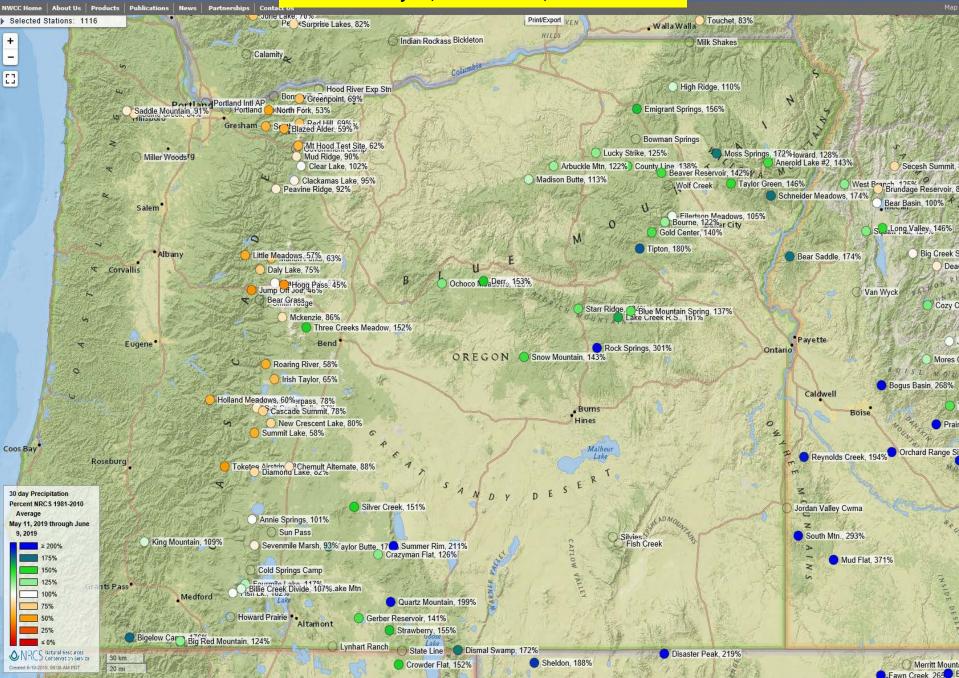
Owyhee/Malheur

Historic Snowpack Range Historic Snowpack Range Historic Snowpack Range -Current Snowpack -Current Snowpack -Current Snowpack ---Normal Snowpack ---Normal Snowpack ---Normal Snowpack **Basin Snowpack Index Basin Snowpack Index Basin Snowpack Index** 1-May 1-Jun 1-Jun un P-l 1-Dec 1-Feb 1-Apr 1-Dec 1-Jan 1-Feb 1-Mar 1-Jul 1-Nov 1-Feb 1-May 1-Jan 1-Mar -Oct 1-Nov 1-Apr 1-May 1-Dec 1-Jan 1-Mar 1-Apr -0 -0 1-Nov 1-Oct



United States Department of Agriculture
National Water
National Water
Conservation Service and Climate Center

30-Day SNOTEL Precipitation % of Average May 11, 2019 – June 9, 2019



United States Department of Agriculture NRCS Natural Resources National V Conservation Service and Climate C

June 1, 2019 June-Sep <u>Available</u> Statistical Volumetric Streamflow Forecasts 50% Exceedance Probability



Thank you

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

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To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: program.intake@usda.gov.

Oregon Water Supply Availability Committee June 11, 2019

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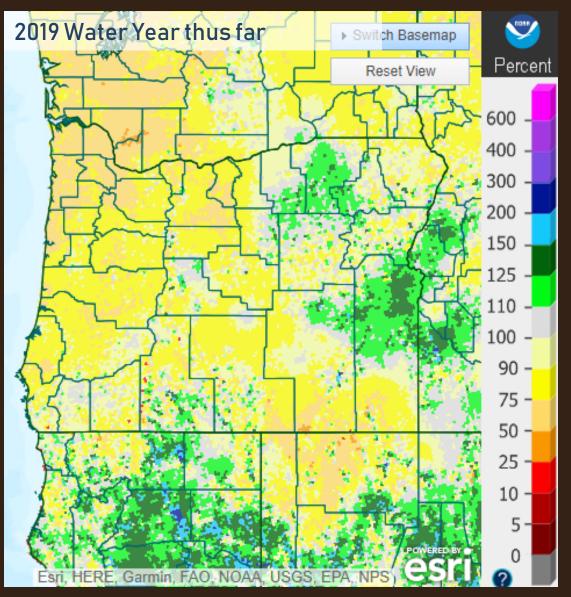
Oregon Water Supply Availability

June 11, 2019 National Weather Service Update

Sunrise, Columbia Gorge

Andy Bryant NOAA/NWS Portland Weather Forecast Office Amy Burke NOAA/NWS/Northwest River Forecast Center

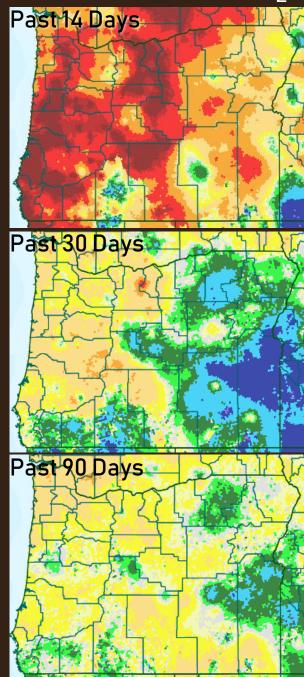
Precipitation % of Average



Precipitation Data as of June 9, 2019

NOAA

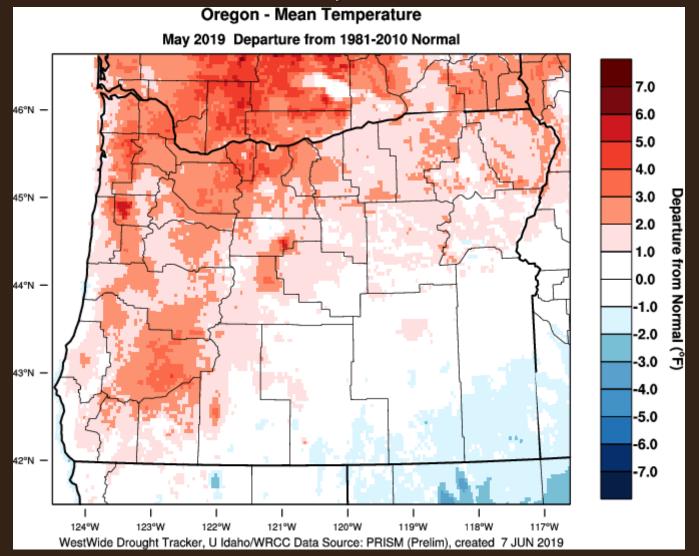
Source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr





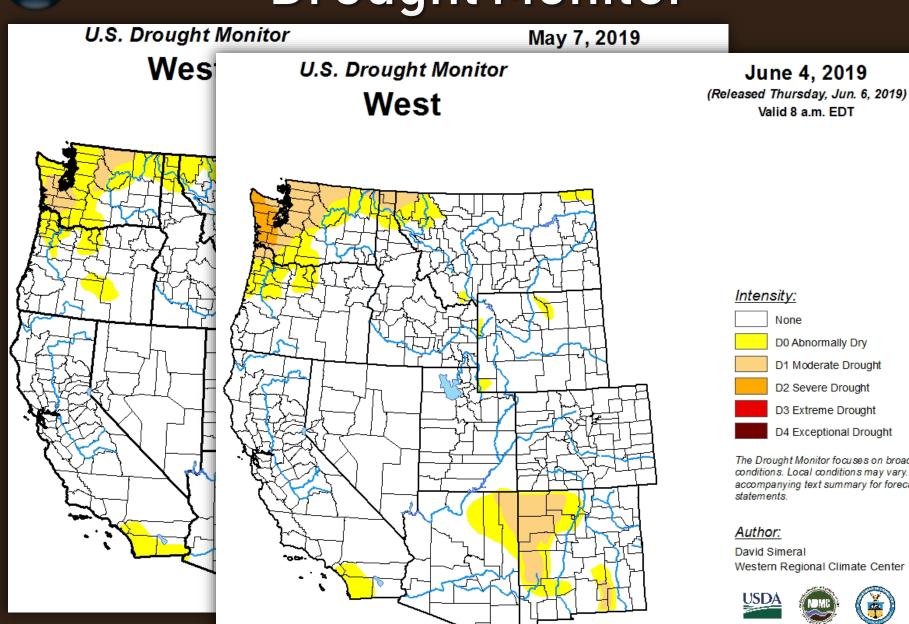
Recent Temperatures

May 2019

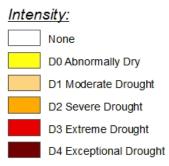


https://wrcc.dri.edu/wwdt/current.php?folder=mdn1

Drought Monitor



NOAA



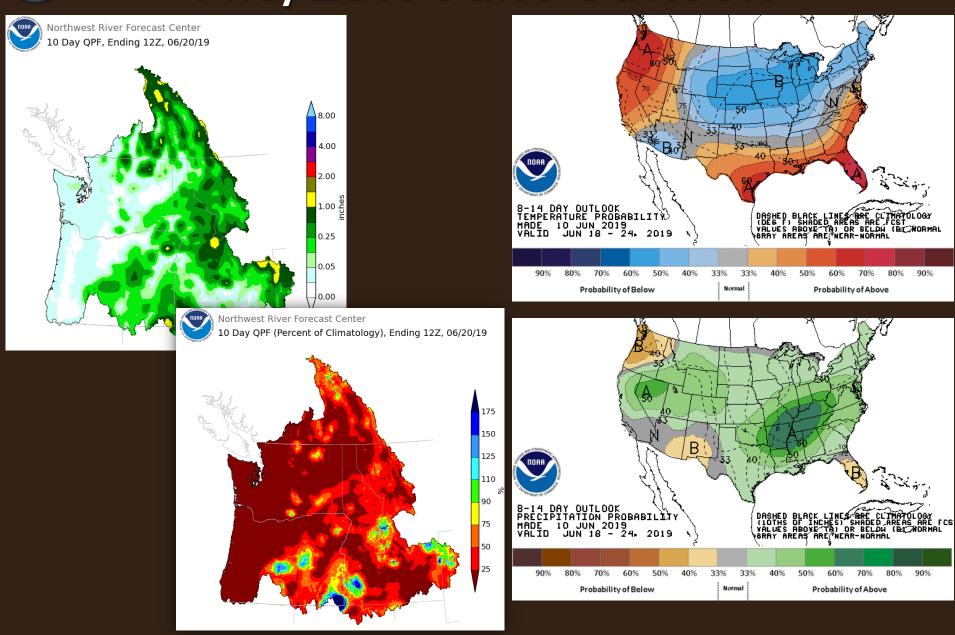
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast

Western Regional Climate Center



droughtmonitor.unl.edu

Mid/Late June Outlook

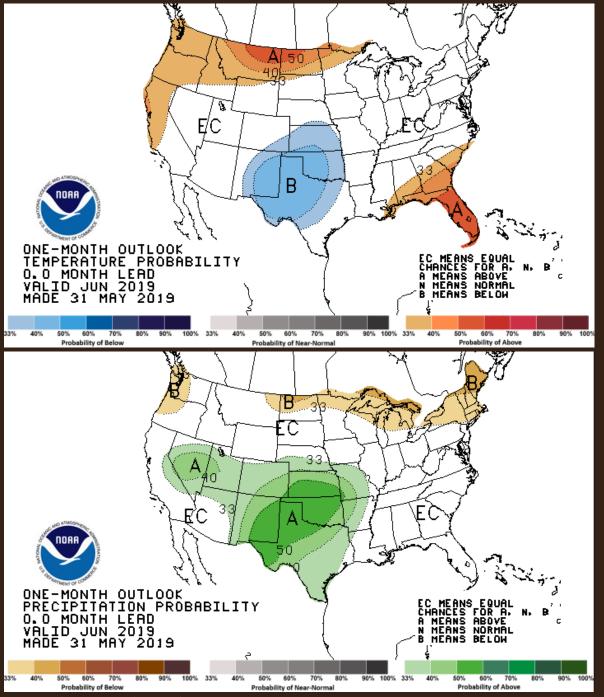


https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=3

https://www.cpc.ncep.noaa.gov/products/predictions/814day/



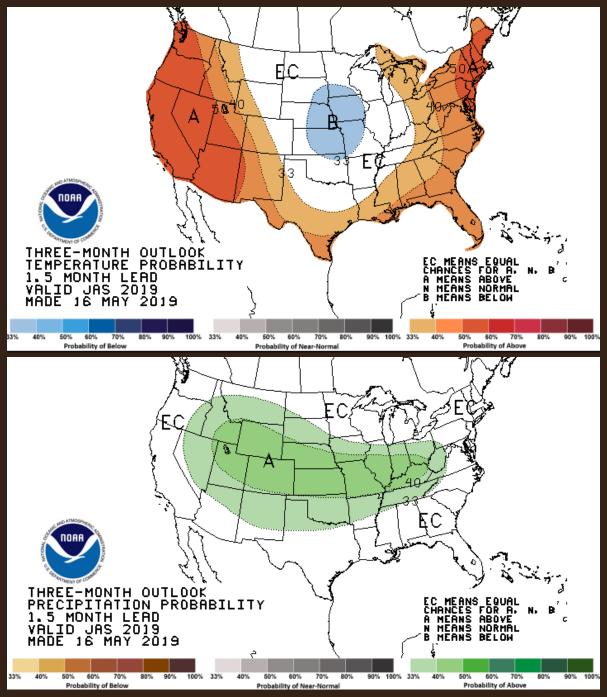
June Outlook



https://www.cpc.ncep.noaa.gov/products/predictions/long_range/lead14/



July-Aug-Sep Outlook



https://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=2



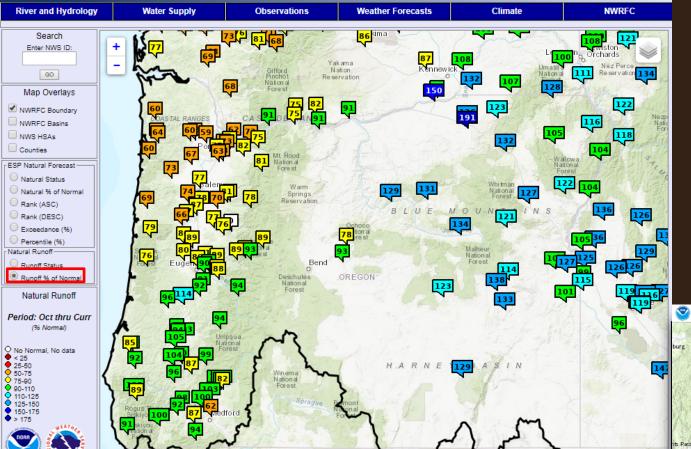
Observed WY19 Runoff thus far



Northwest River Forecast Center Observed Water Year Natural Runoff



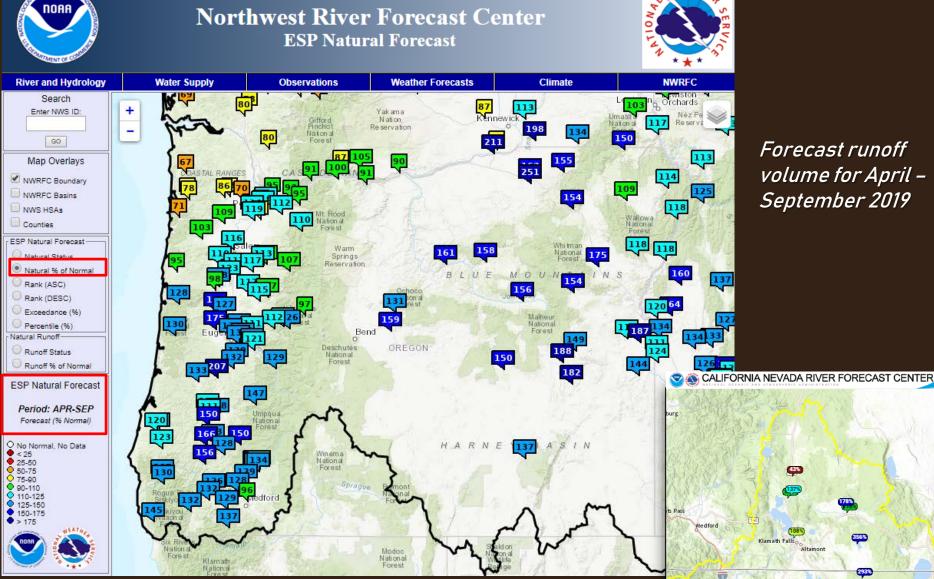
138



https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2 https://www.cnrfc.noaa.gov/ol.php?product=espWS_____



Seasonal Water Supply Forecasts



https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2 https://www.cnrfc.noaa.gov/ol.php?product=espWS

NOAR

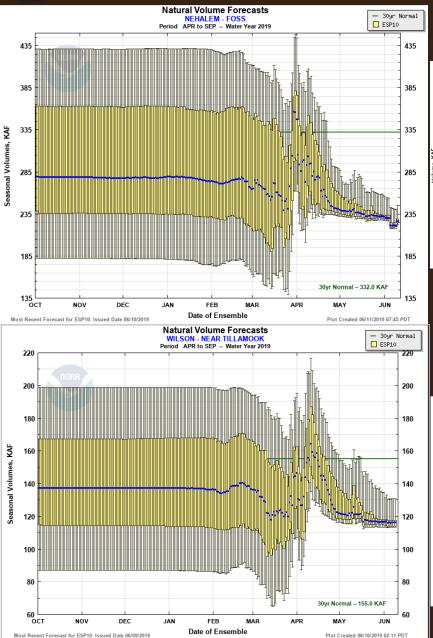
Forecast runoff volume for April -September 2019

Altamont

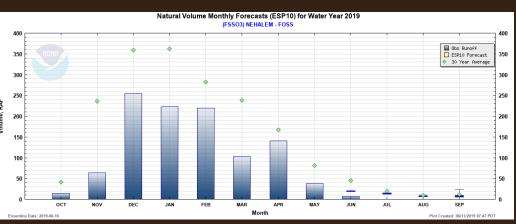
293%

9

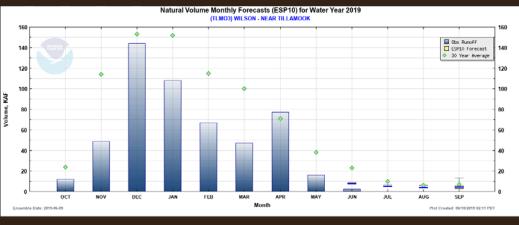
Natural Water Supply Forecasts (North Coast)



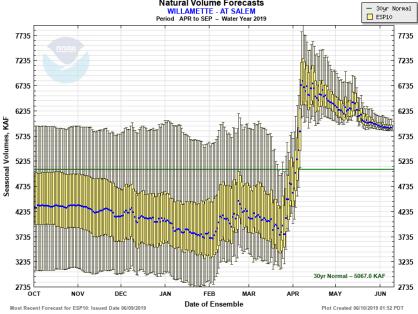
NOAA

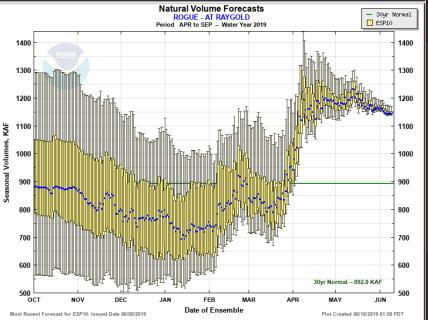


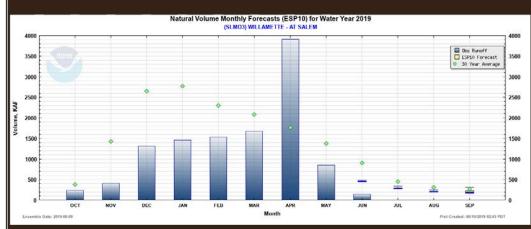
10

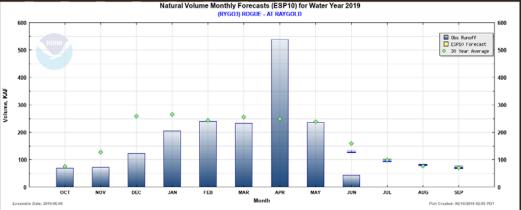


Natural Water Supply Forecasts (West)¹¹

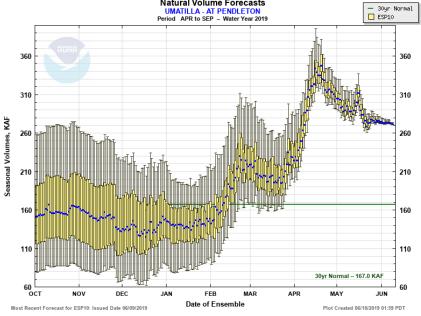


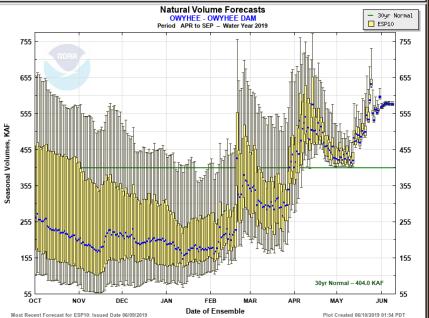


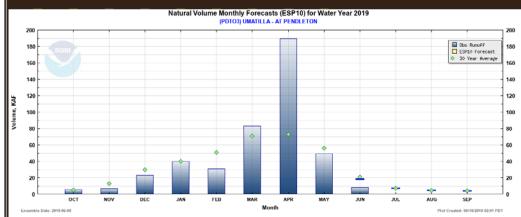




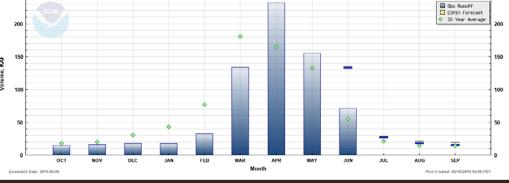
Vatural Water Supply Forecasts (East) 12







Natural Volume Monthly Forecasts (ESP10) for Water Year 2019 (OWYO3) OWYHEE - OWYHEE DAM





Link to Northwest River Forecast Center ESP Natural Forecasts

https://www.nwrfc.noaa.gov/natural

Live Water Supply Briefings

Monthly water supply briefings will be tentatively held January though late spring on the first Thursday of each month. Please refer to our online schedule which will be updated in the fall.

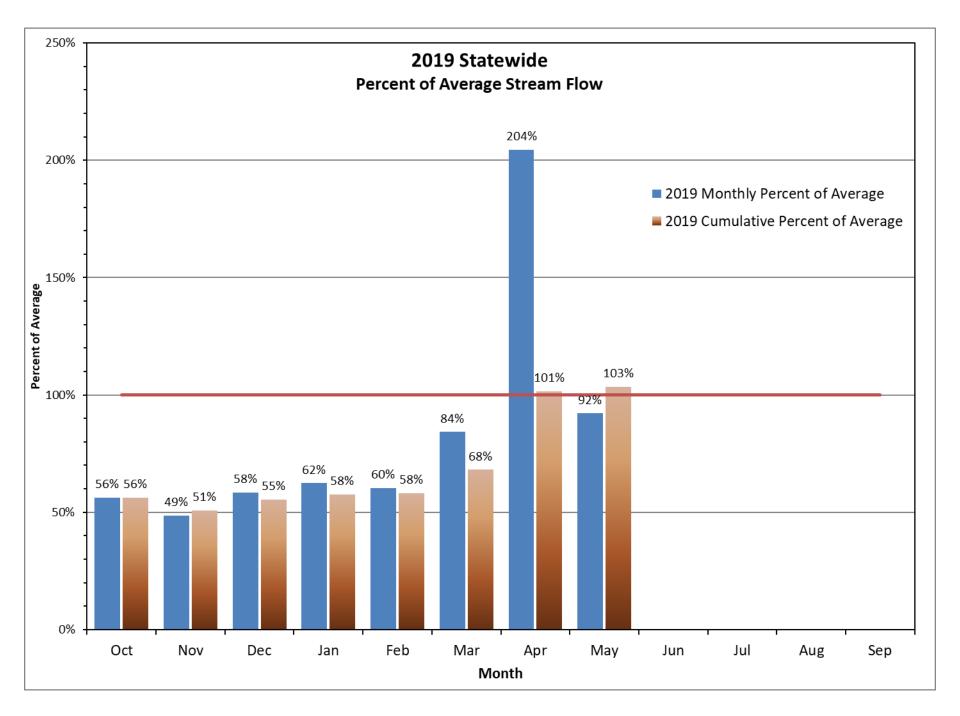
https://www.nwrfc.noaa.gov/water_supply/ws_schd.cgi

Water Supply Conditions Report Water Supply Availability Committee



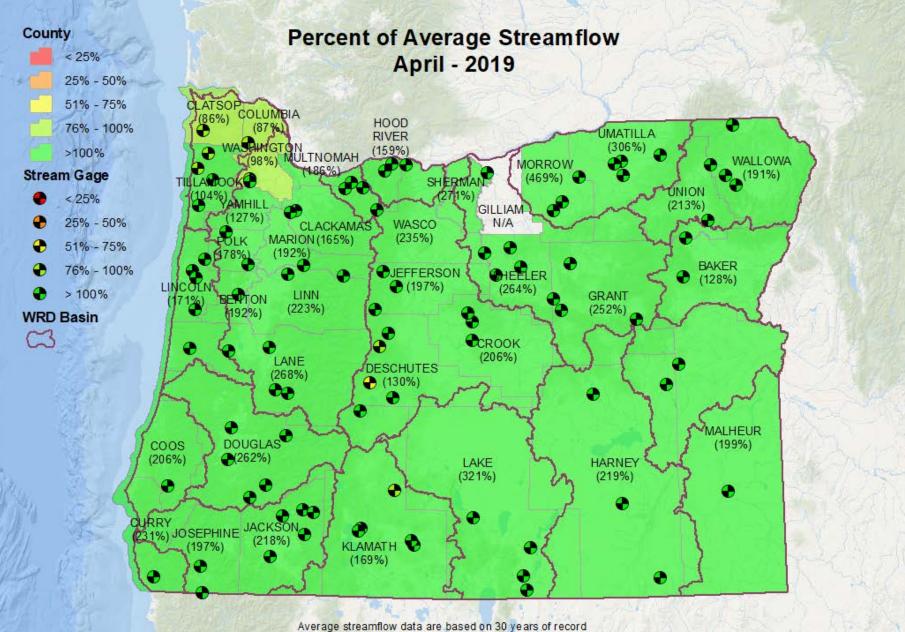
Ken Stahr Oregon Water Resources Department June 11, 2019

IST A ROOS

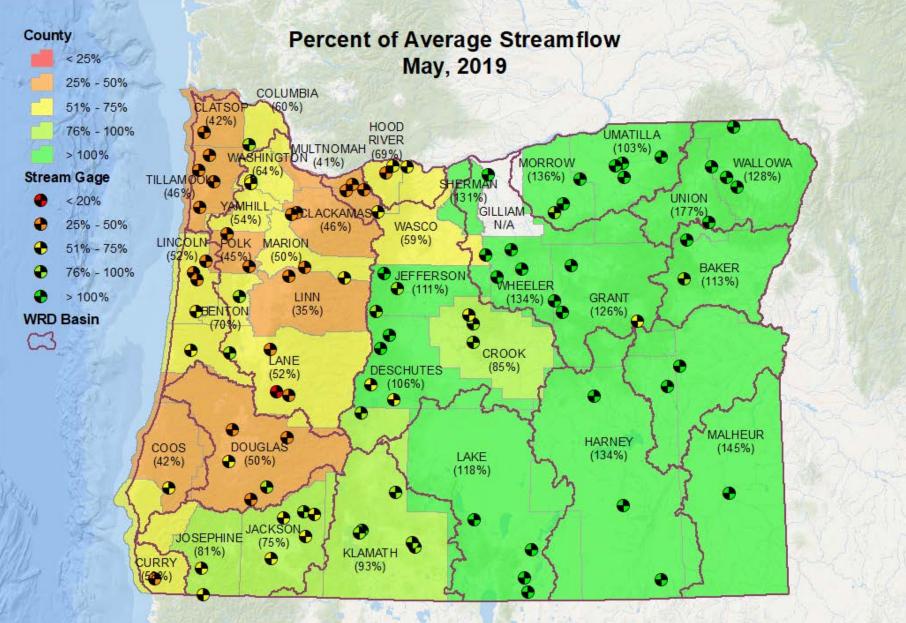




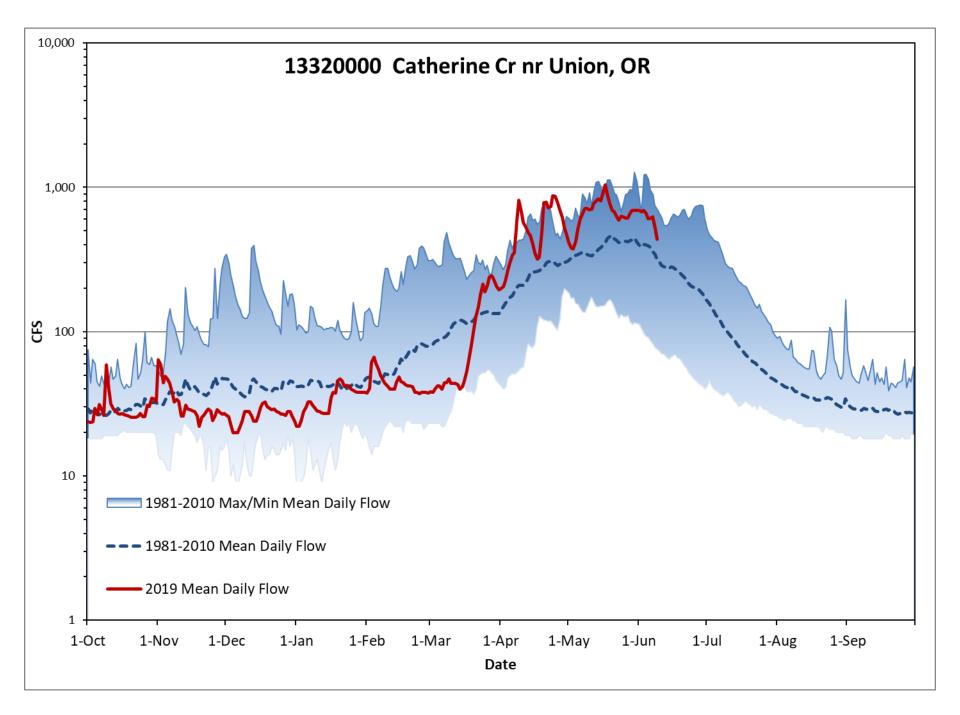
	Water Year	% of	# of
Basin	% of average	average for	data
	thru May	May	points
West Side	81%	54%	44
East Side	118%	116%	50
State	103%	92%	94

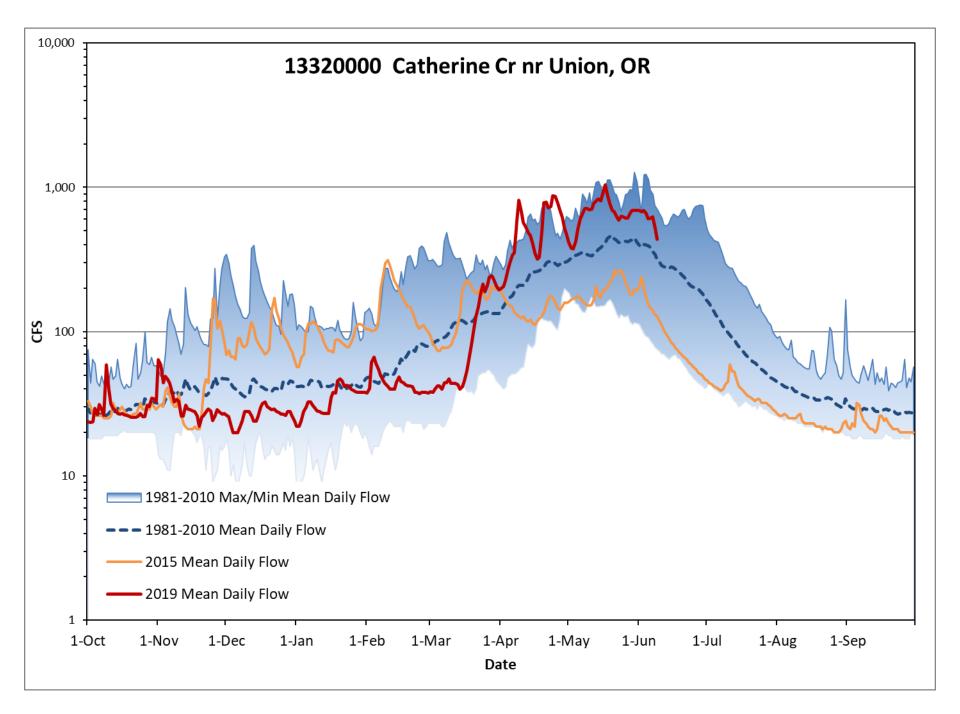


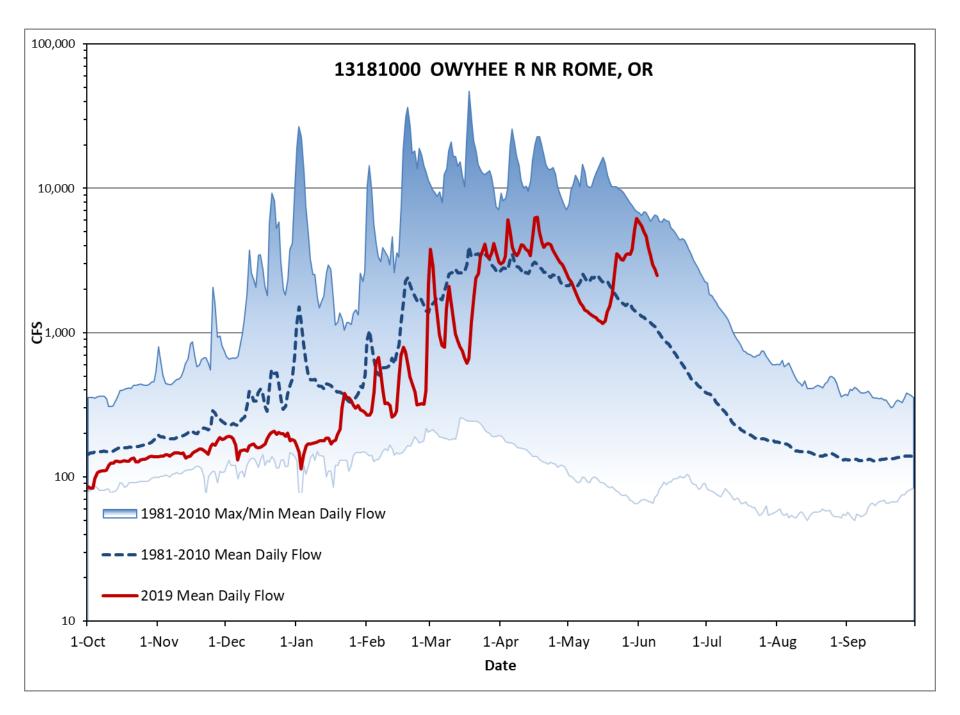
(1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

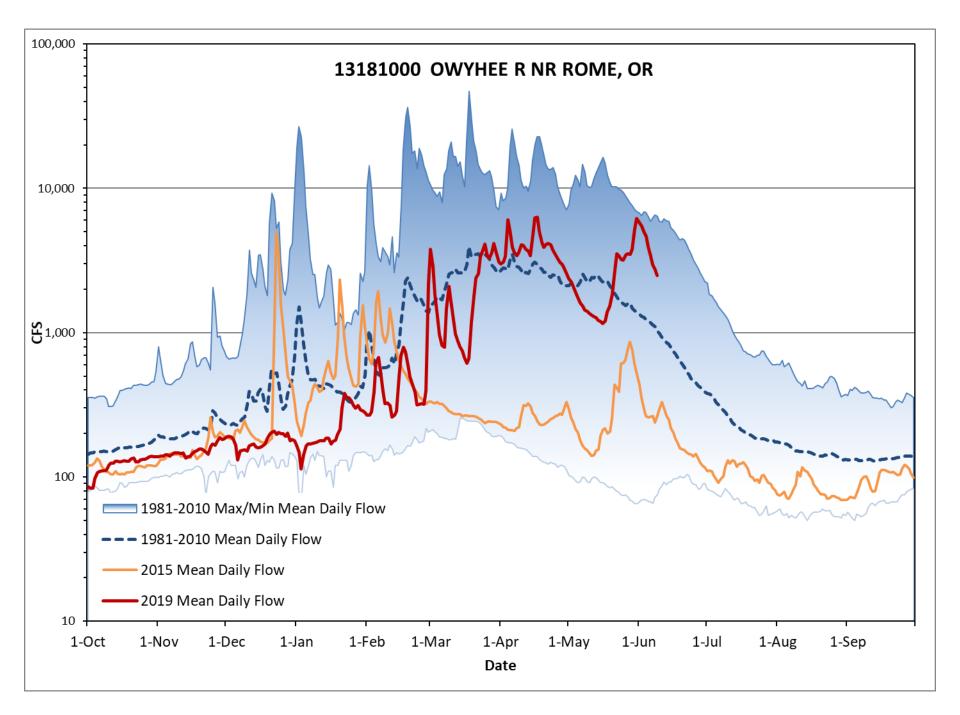


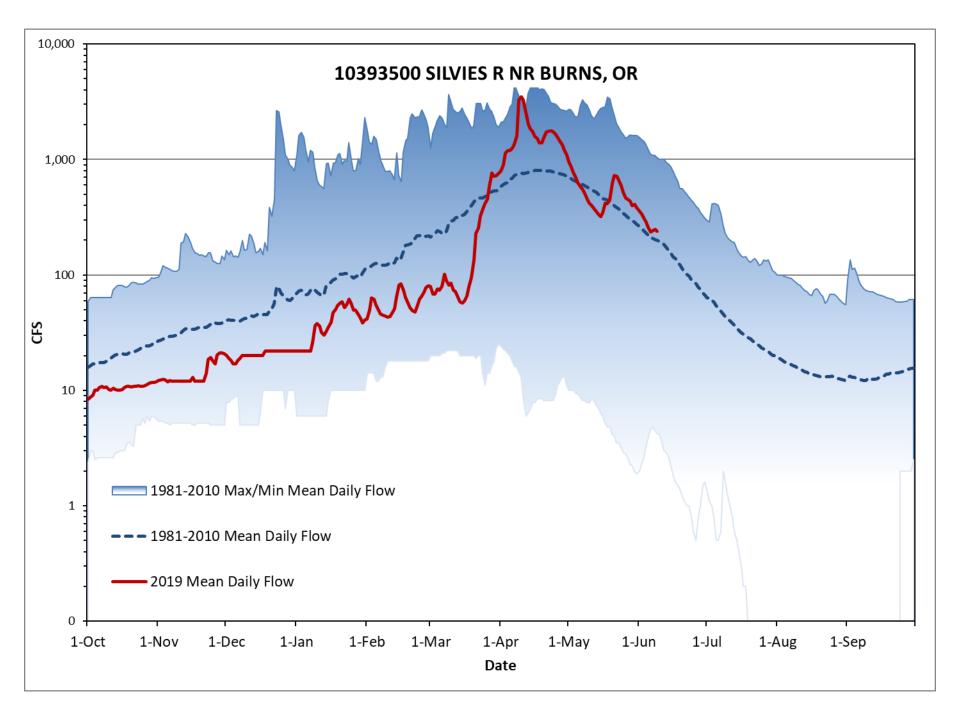
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

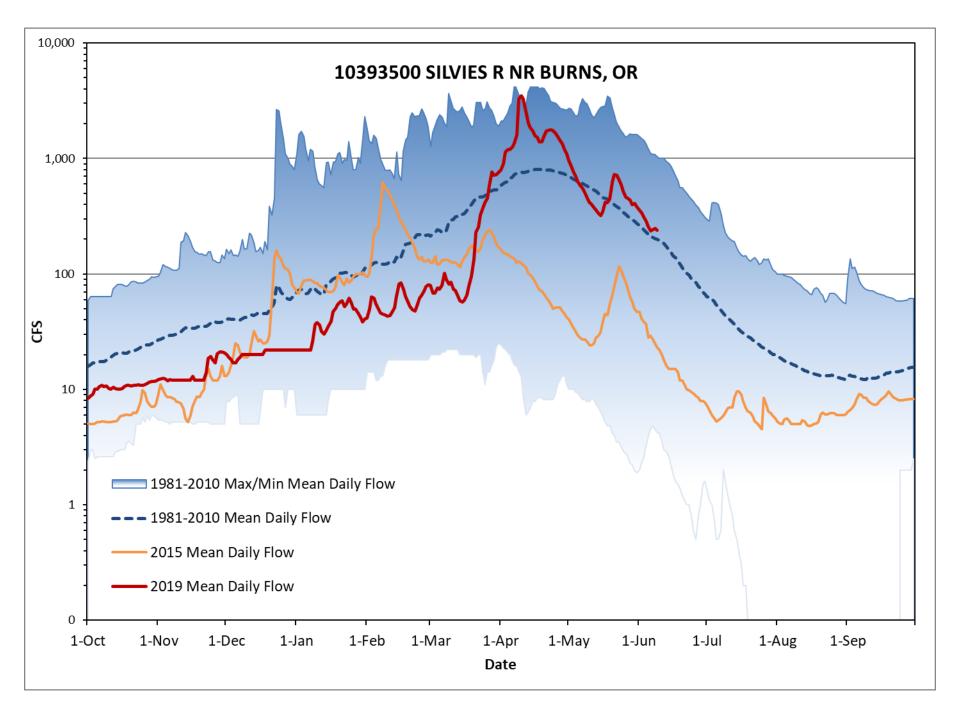


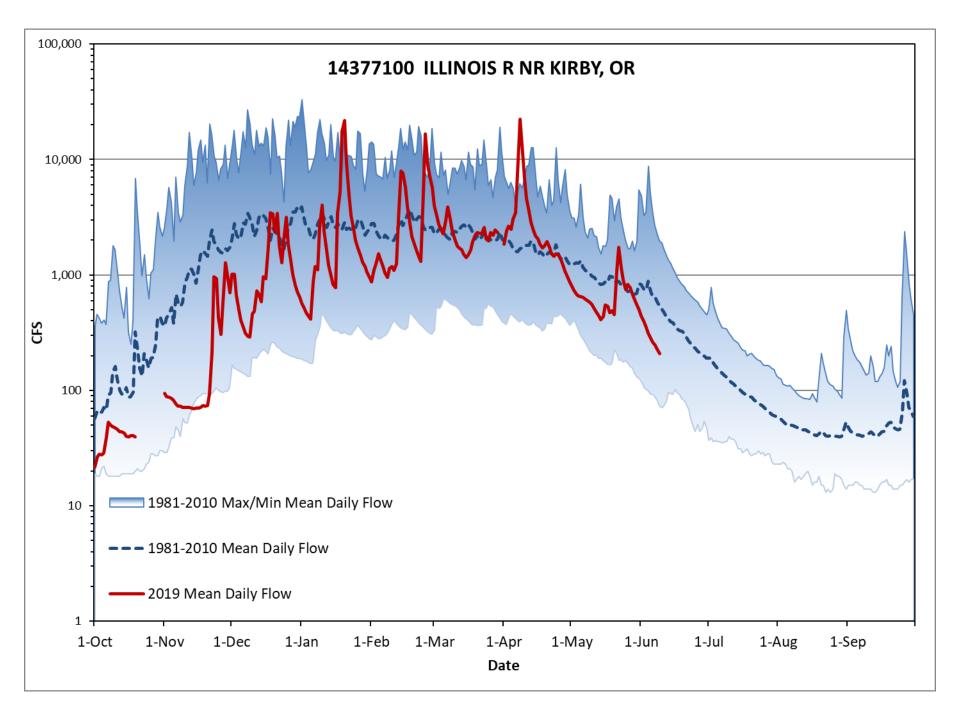


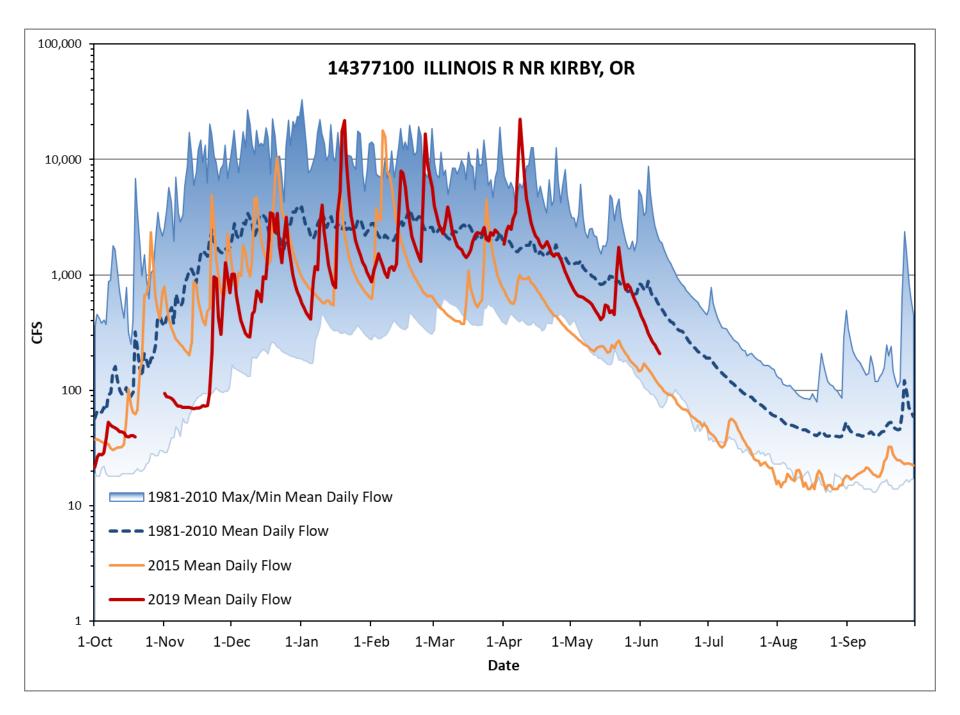


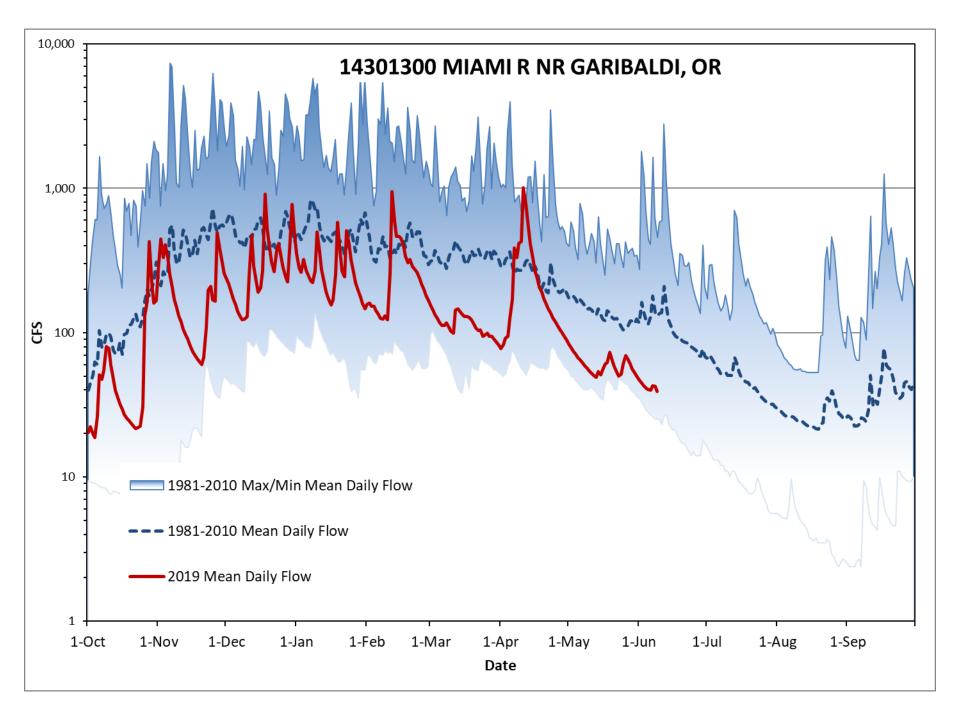


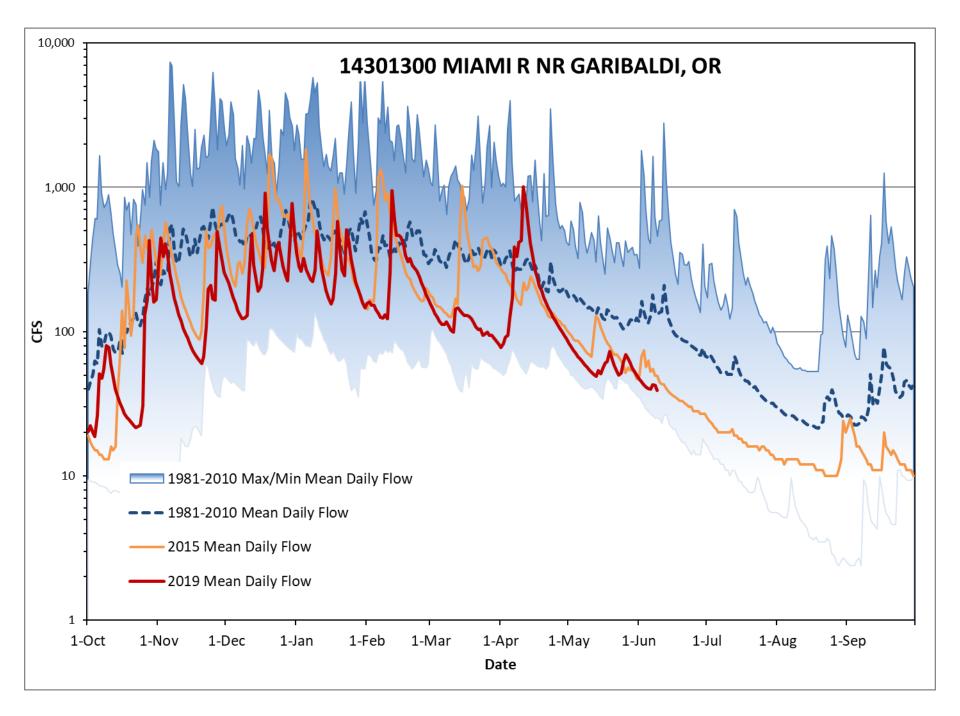
















Thank you.



Oregon Water Supply Availability Meeting

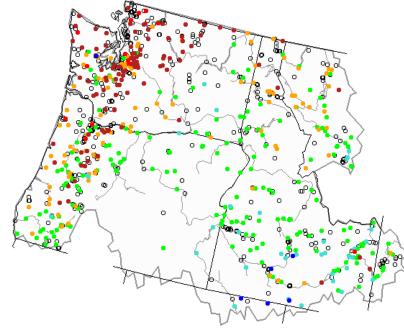
June 2019

U.S. Department of the Interior U.S. Geological Survey **USGS Update on Surface Water Conditions**

Marc Stewart & Carrie Boudreau

Oregon Water Science Center

Monday, June 10, 2019 15:30ET



≊USGS

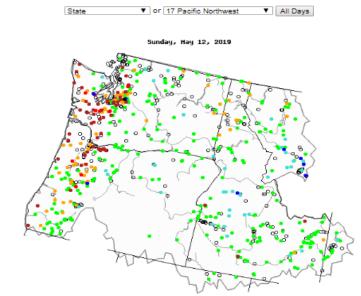
Search USGS streamgage 🛛 🔎

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

(Left) Map Current 7-day average streamflow compared to historical streamflow for the day of the year

7-day average streamflow for May 12

Map of 7-day average streamflow compared to historical streamflow for the day of the year (Pacific Northwest)



≊USGS

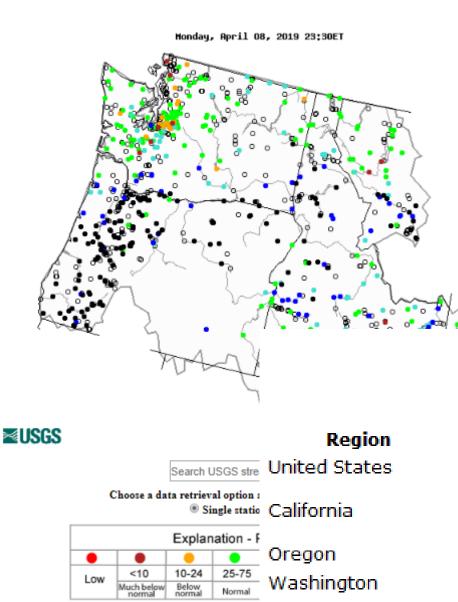
Search USGS streamgage 🛛 🔎

Explanation - Percentile classes								
•								
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked	
2011	Much below normal	Below normal	Normal	Above	Much above normal			



Map of real-time streamflow compared to historical streamflow for the day of the year (Pacific Northwest)

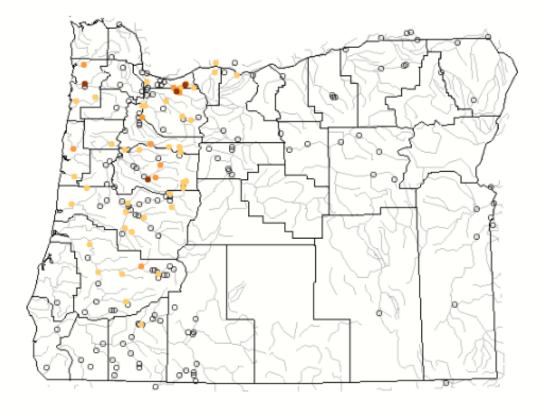
State
v or 17 Pacific Northwest
v





Above action stage	Above minor flood stage	Above moderat e flood stage	Above major flood stage	Total
79	79	33	18	209
2	1			3
12	8	5		25
1				1

Map of below normal 14-day average streamflow compared to historical streamflow for the day of year (Oregon)



≊USGS

Search USGS streamgage

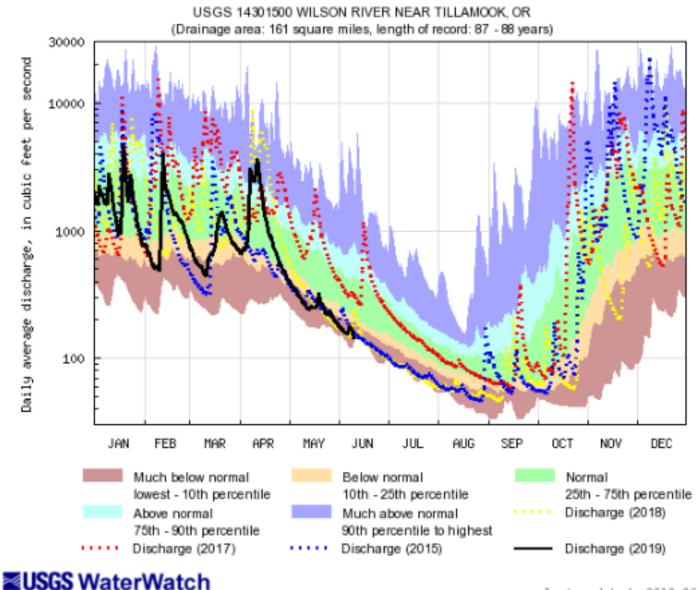
Choose a data retrieval option and select a location on the map

○ List of all stations [●] Single station [○] Nearest stations

Explanation - Percentile classes							
New low	<=5	6-9	10-24	Not ranked			
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	Notranked			



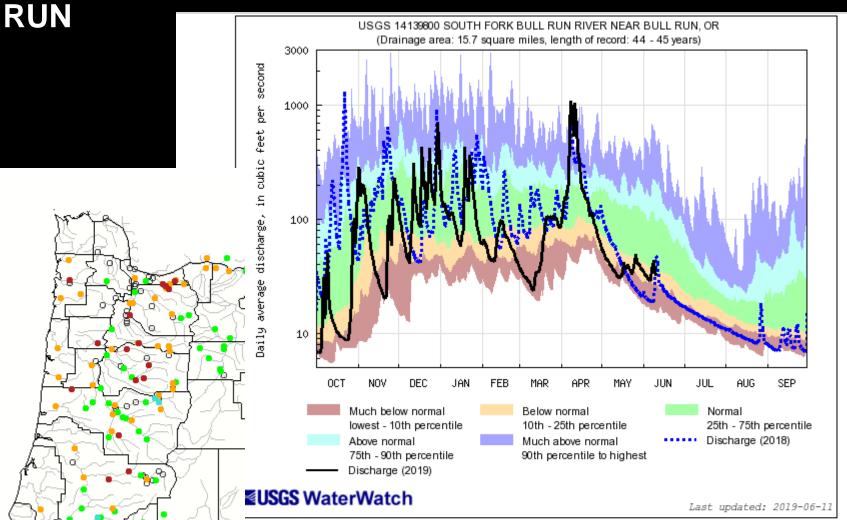
14301500 Wilson River near Tillamook





Last updated: 2019-06-11

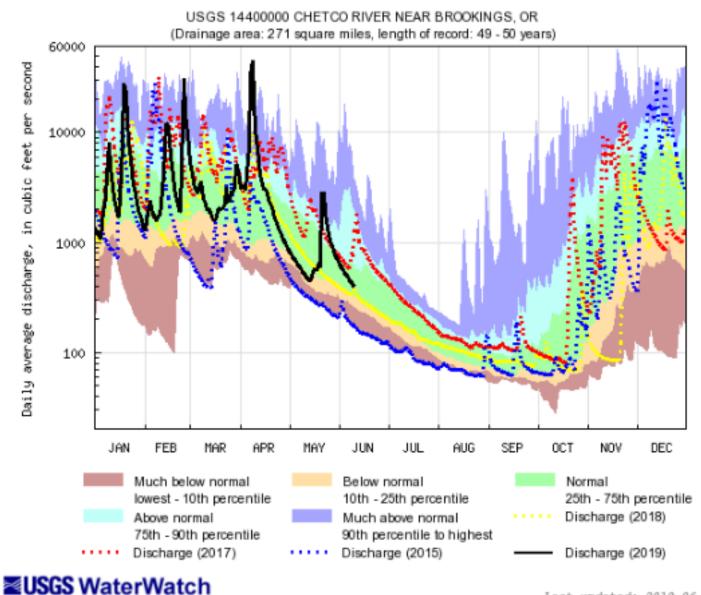
14139800 SOUTH FORK BULL RUN RIVER NEAR BULL



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

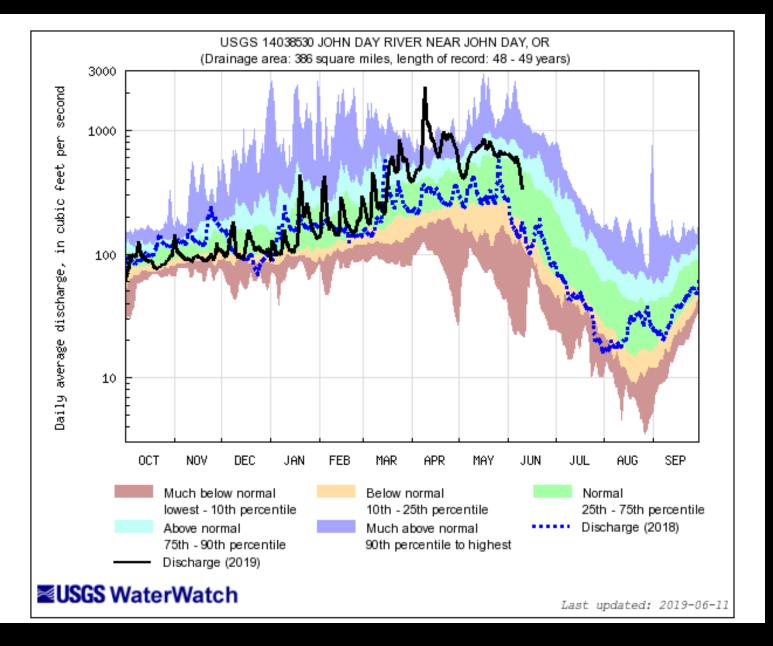


14400000 Chetco River near Brookings



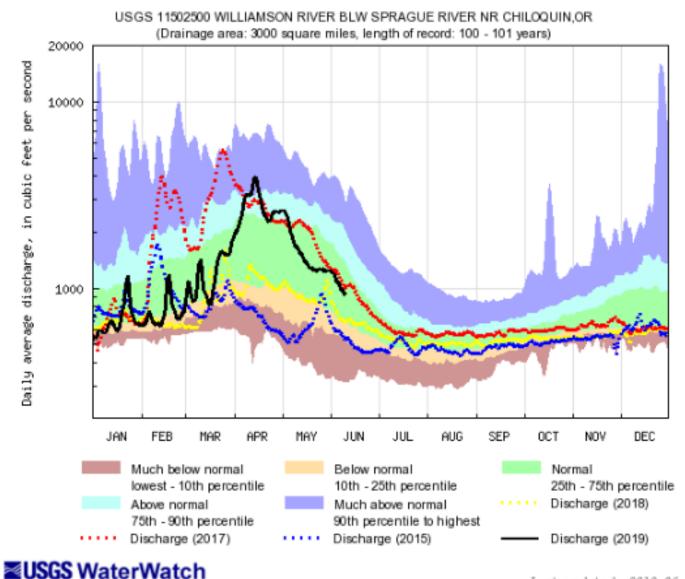


Last updated: 2019-06-11





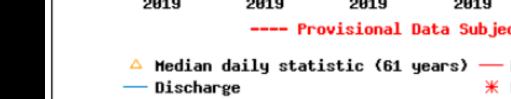
11502500 Williamson River blw Sprague





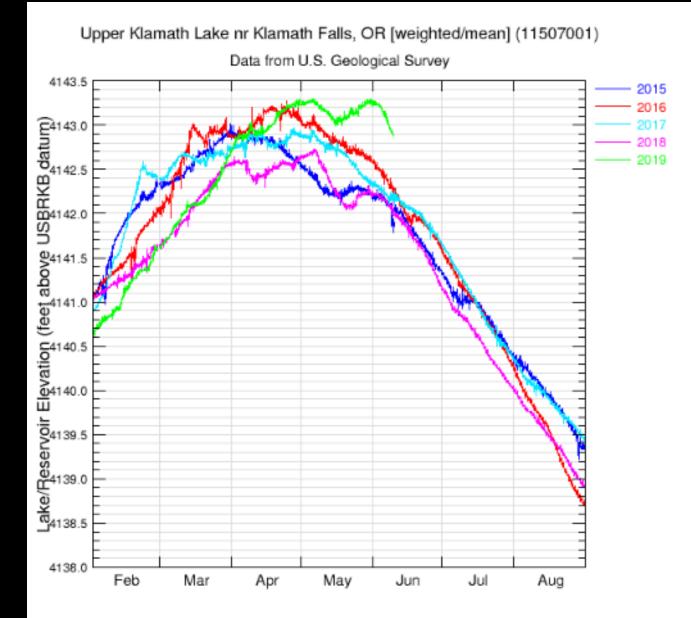
≊USGS

USGS 11493500 WILLIAMSON RIVER NEAR KLAMATH AGENCY, OR 400 second 350 300 per 250 feet 200 cubic 150100 Discharge, 50 Ø -50 Har Har Apr Apr Hay May Jun 16 30 13 27 11 25 08 2019 2019 2019 2019 2019 2019 2019 ---- Provisional Data Subject to Revision ____ Median daily statistic (61 years) — Estimated discharge Δ. Discharge ₭ Measured discharge

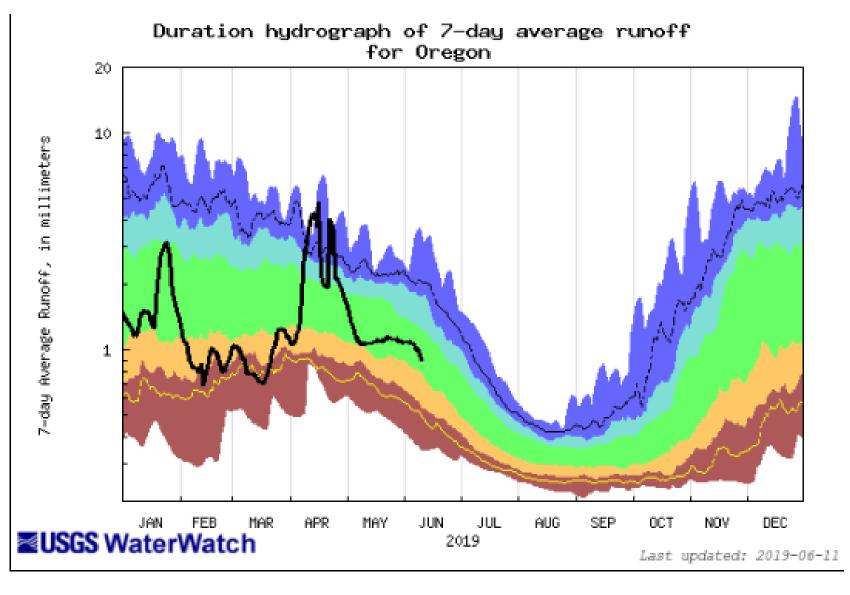




Klamath Lake





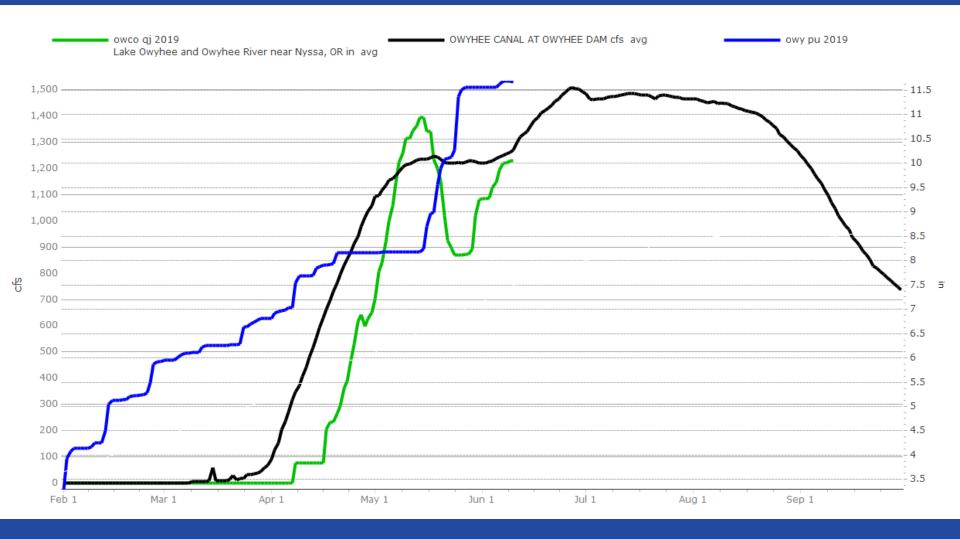


Explanation - Percentile classes								
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff	
Much below Normal Belo		Below normal	Normal	Above normal	Much above normal			



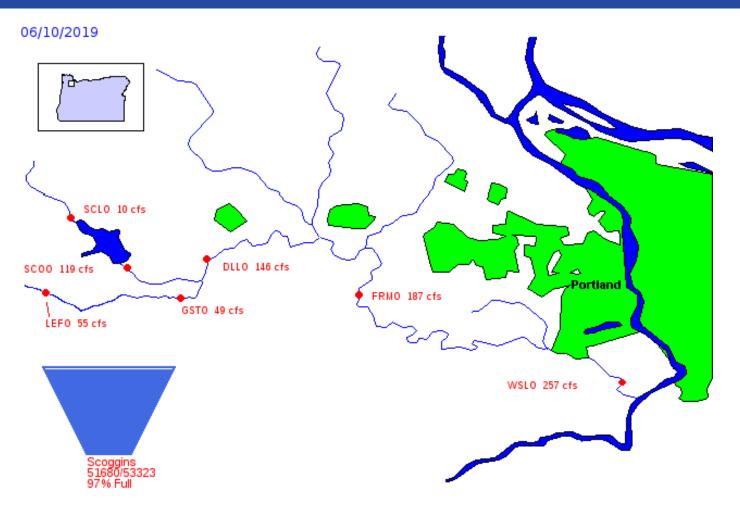
Oregon WSAC

June 11, 2019

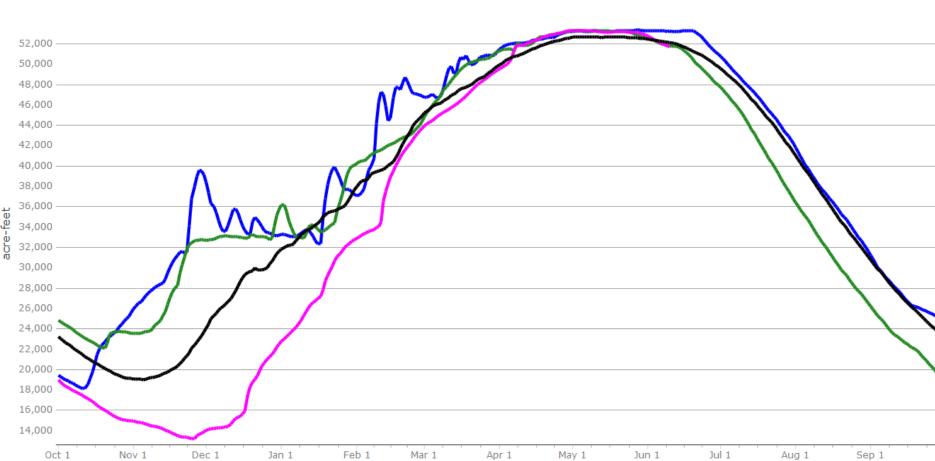


Current Conditions

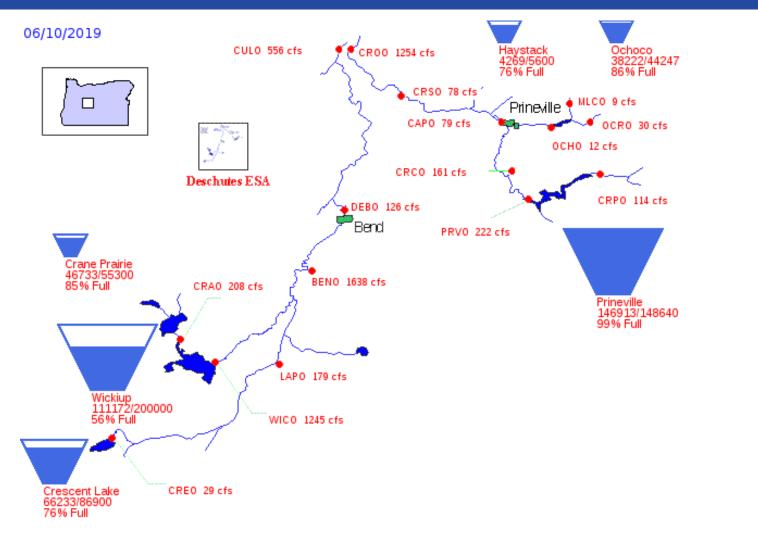
Tualatin River Basin



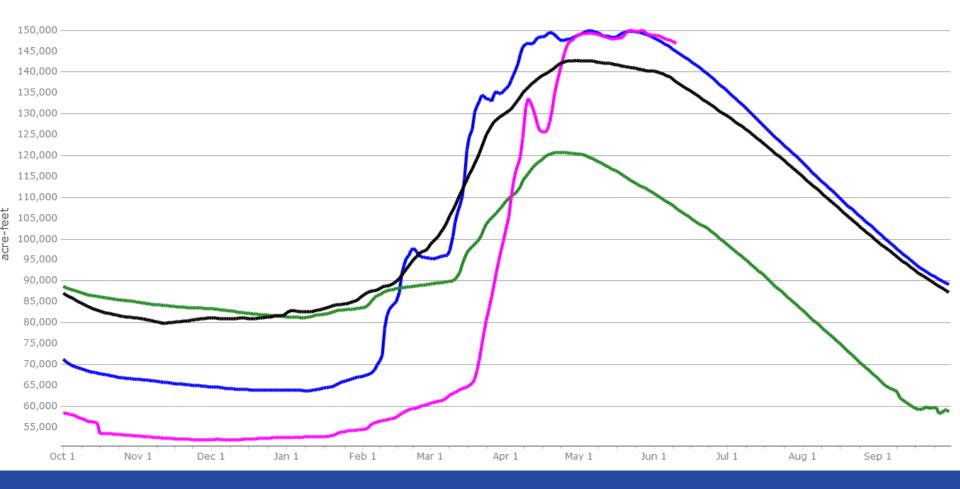
Scoggins Dam & Henry Hagg Lake nr Forest Grove, OR Elevation:



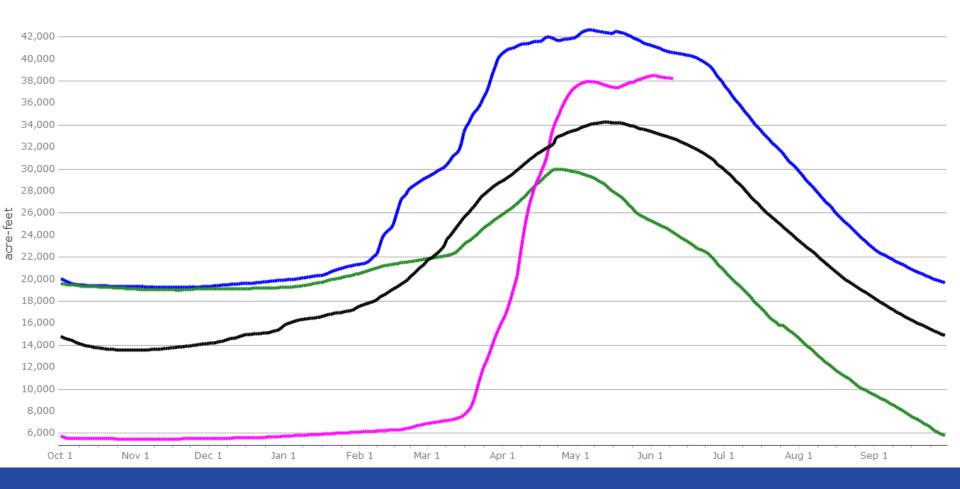
Deschutes River Basin



Prineville Reservoir nr Prineville, OR Elevation:

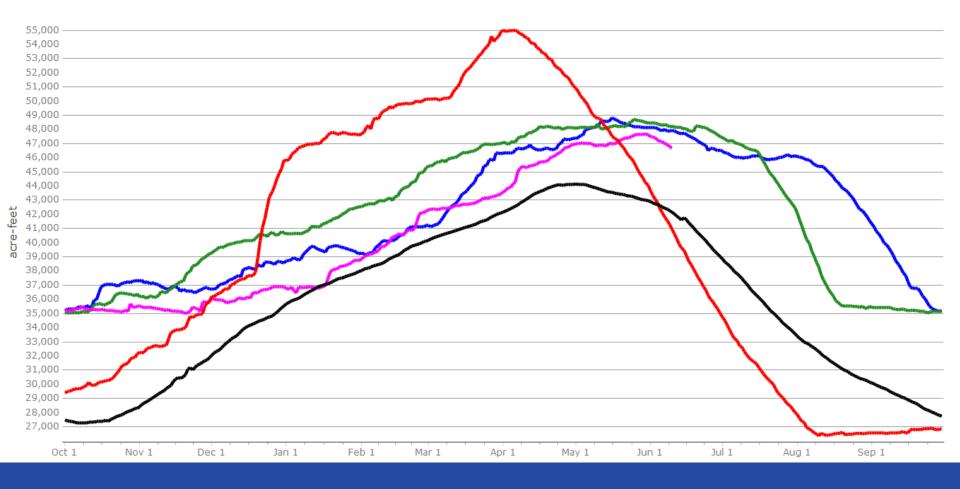


Ochoco Reservoir near Prineville, OR Elevation:



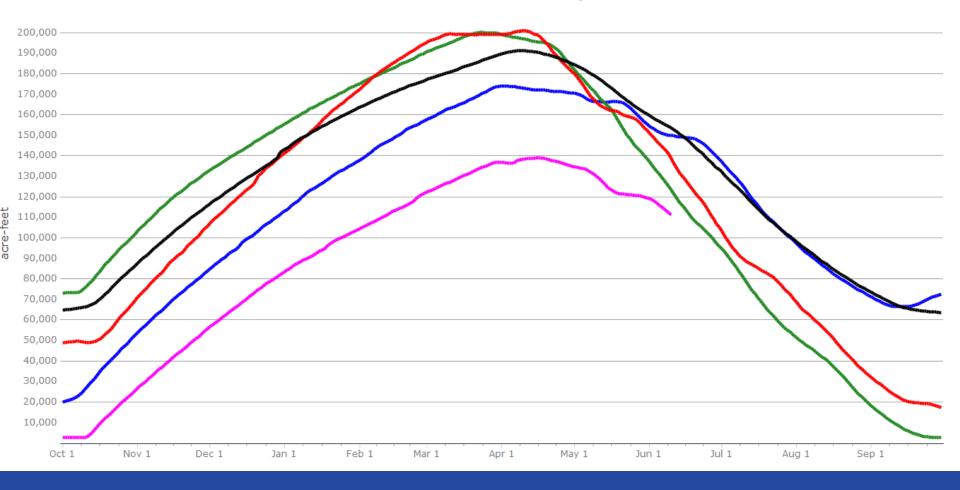
Crane Prairie Reservoir nr. LaPine, OR Elevation:

- 2017 - 2018 - 2019 - 2015 - avg

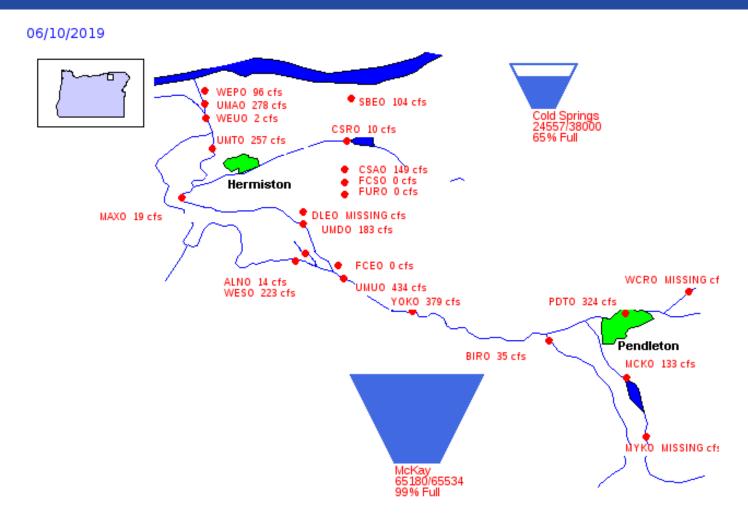


Wickiup Reservoir near LaPine, OR Elevation:

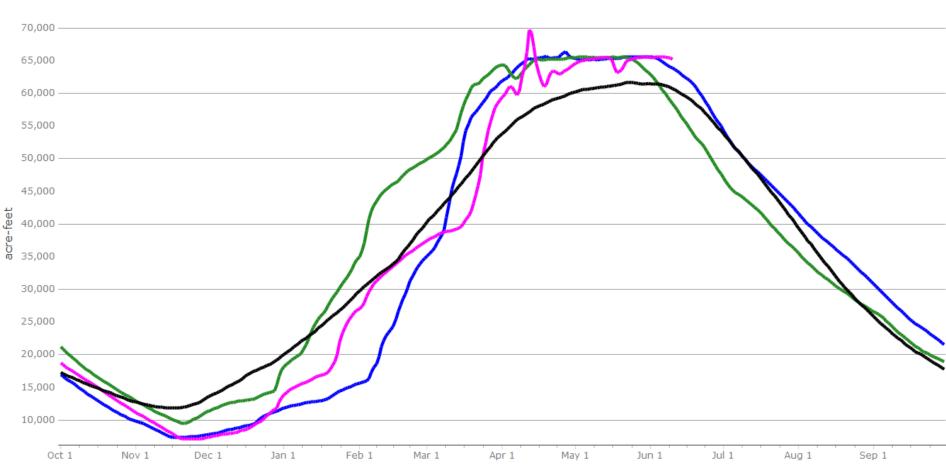
- 2017 - 2018 - 2019 - 2015 - avg



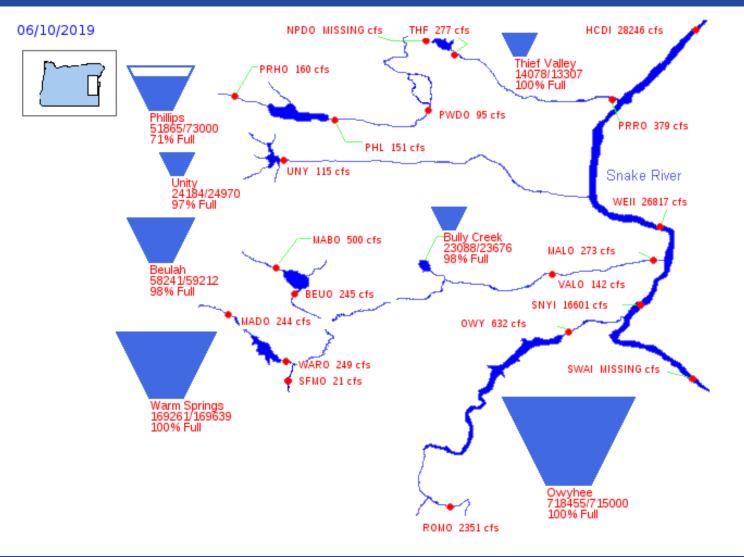
Umatilla River Basin



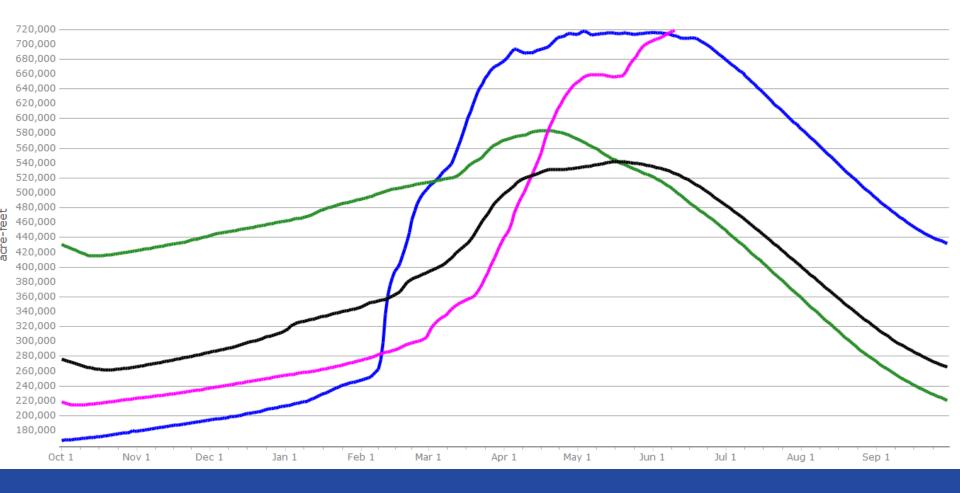
McKay Reservoir near Pendleton, OR Elevation:



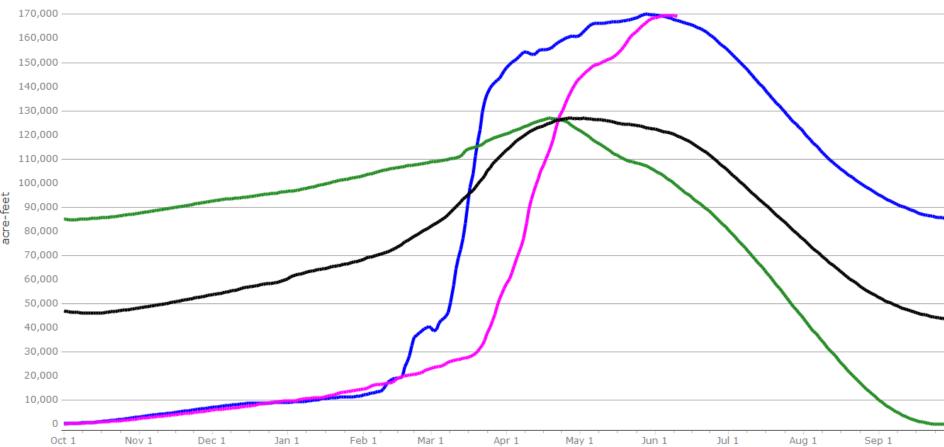
Southeastern Oregon



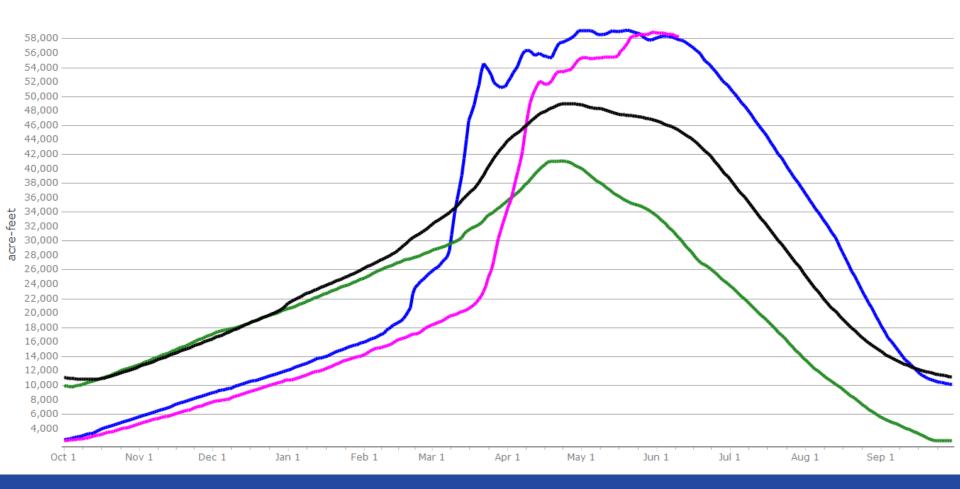
Lake Owyhee and Owyhee River near Nyssa, OR Elevation:



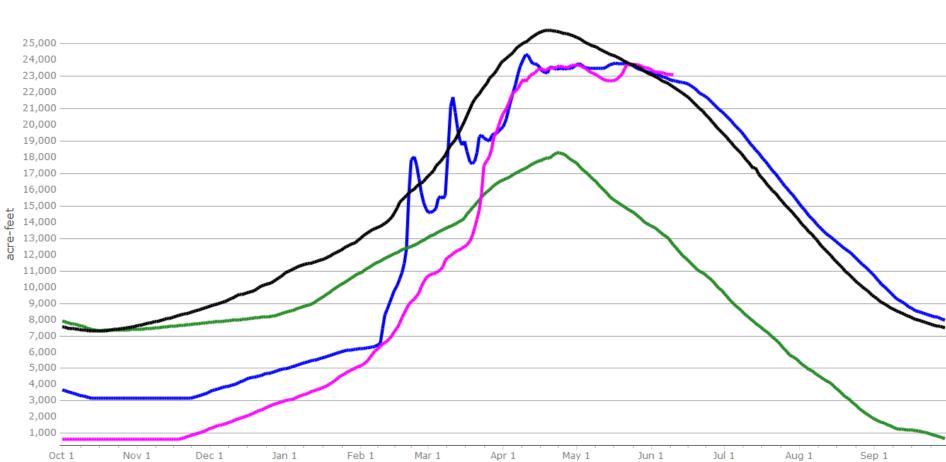
Warm Springs Dam and Reservoir nr Riverside, OR Elevation:



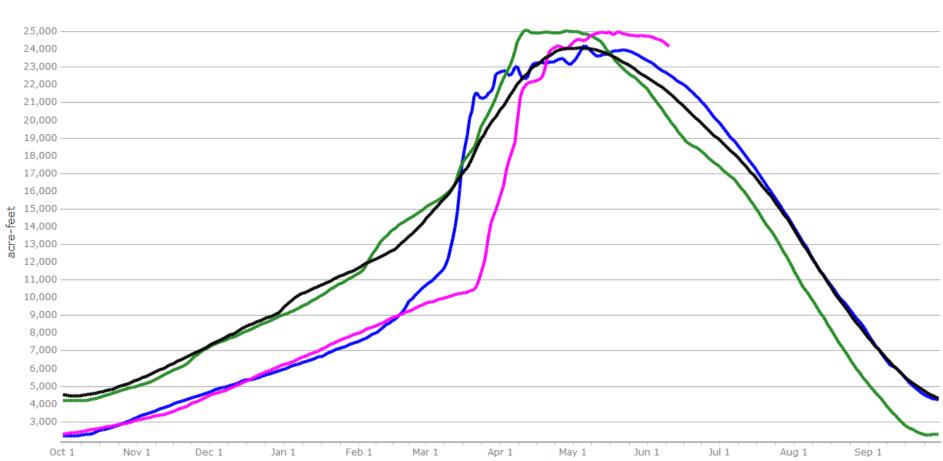
Agency Valley (Beulah) Dam and Reservoir Elevation:



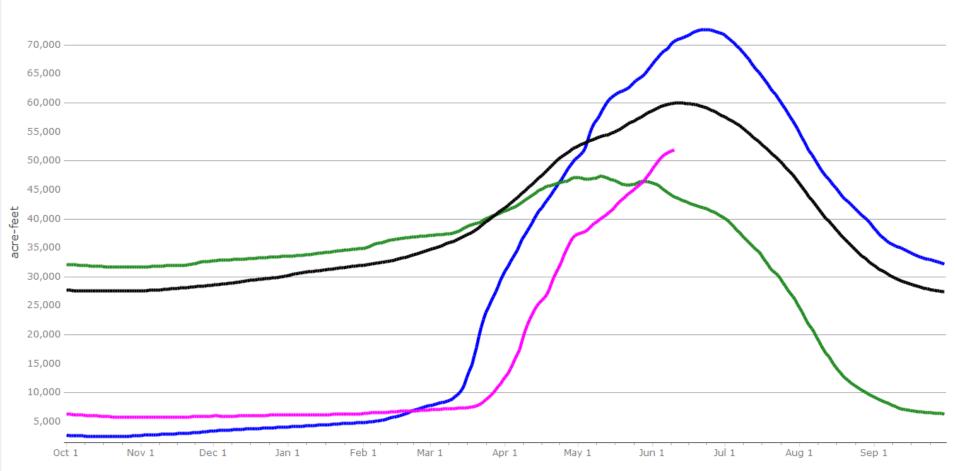
Bully Creek Dam and Reservoir near Vale, OR Elevation:



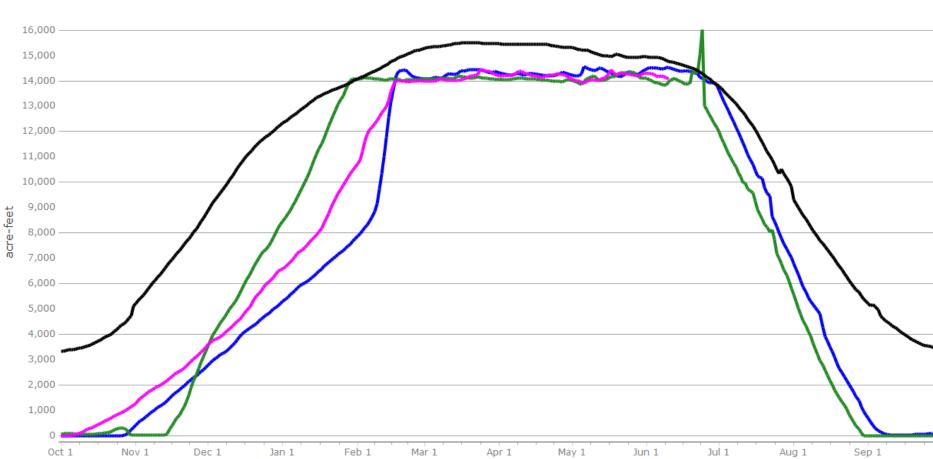
Unity Reservoir and Burnt River near Unity, Oregon Elevation:



Mason Dam and Phillips Lake near Sumpter, OR Elevation:

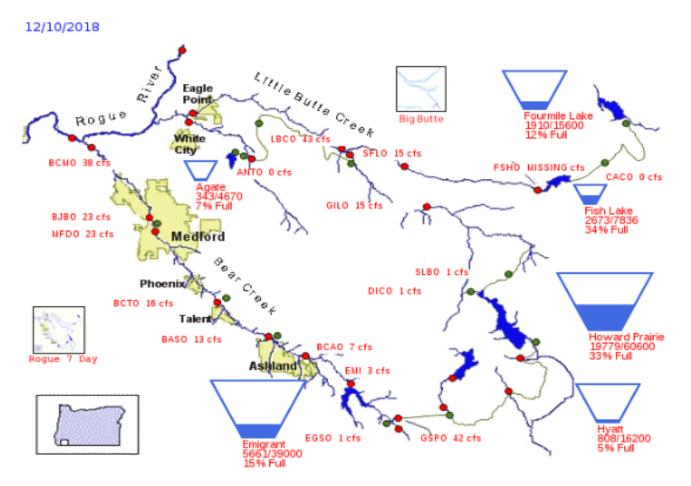


Thief Valley Dam and Reservoir near North Powder, OR Elevation:



Rogue River Basin

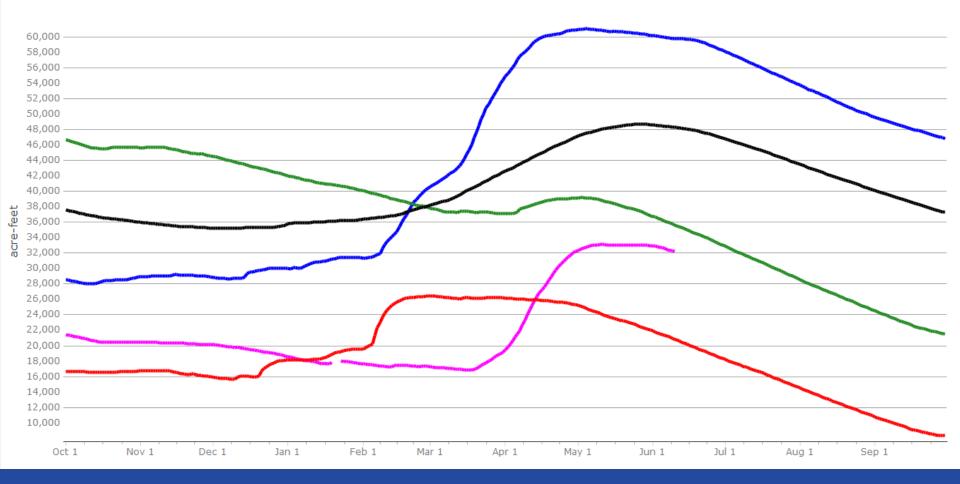
US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins



PROVISIONAL DATA - SUBJECT TO CHANGE!

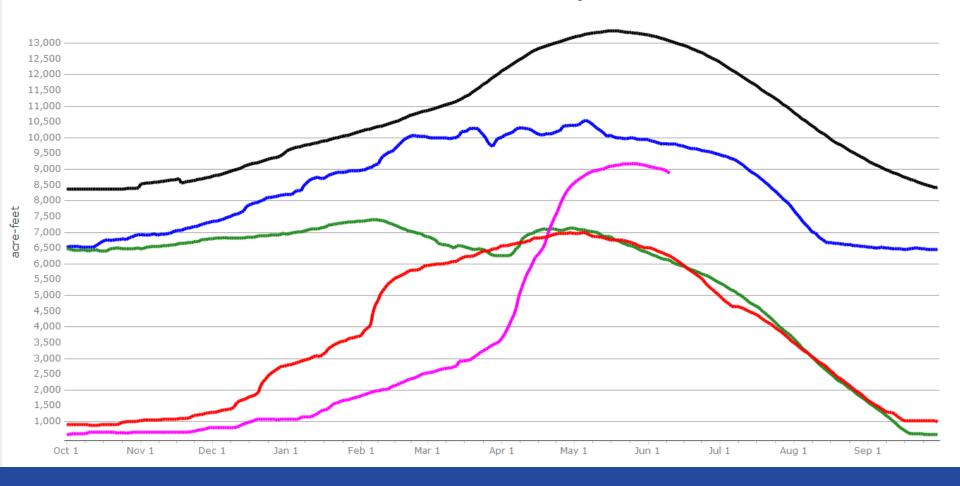
Howard Prairie Lake and Dam near Ashland, OR Elevation:





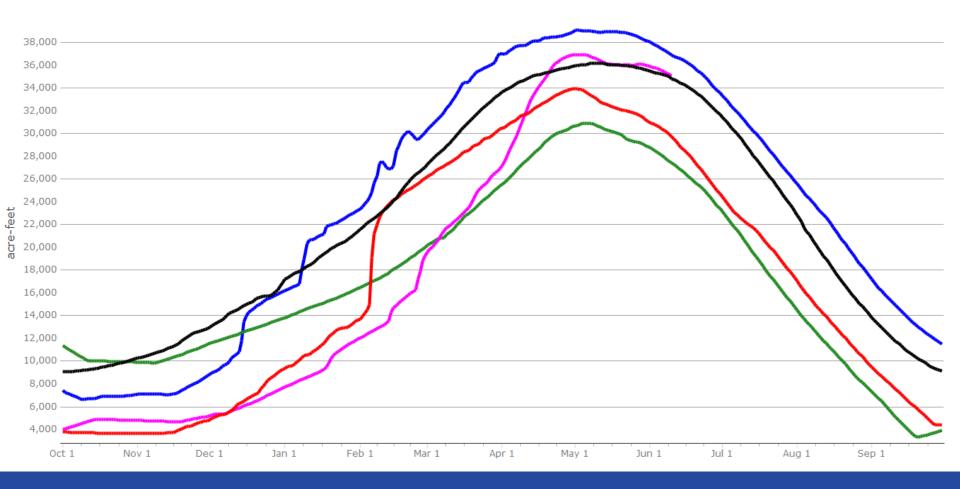
Hyatt Dam and Reservoir near Ashland, OR Elevation:

- 2017 - 2018 - 2019 - 2015 - avg



Emigrant Dam and Lake near Ashland, OR Elevation:

- 2017 - 2018 - 2019 - 2015 - avg



Peter Cooper USBR PN Region River and Reservoir Operations Group pcooper@usbr.gov



- April 2019 Flooding Story Map: <u>https://storymaps-</u> nextgen.arcgis.com/beta/stories/2cfe3ce9706045c585b5f1f3d1c79bb0
- Past Disasters Website: <u>https://www.oregon.gov/oem/emops/Pages/Past-Disasters.aspx</u>