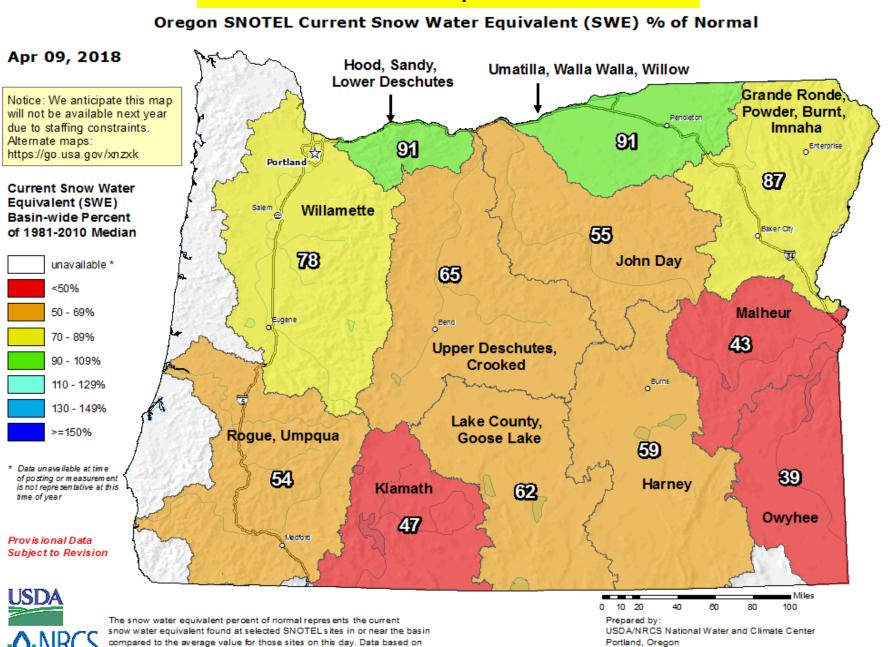


#### Statewide SNOTEL Snowpack is 71% of normal

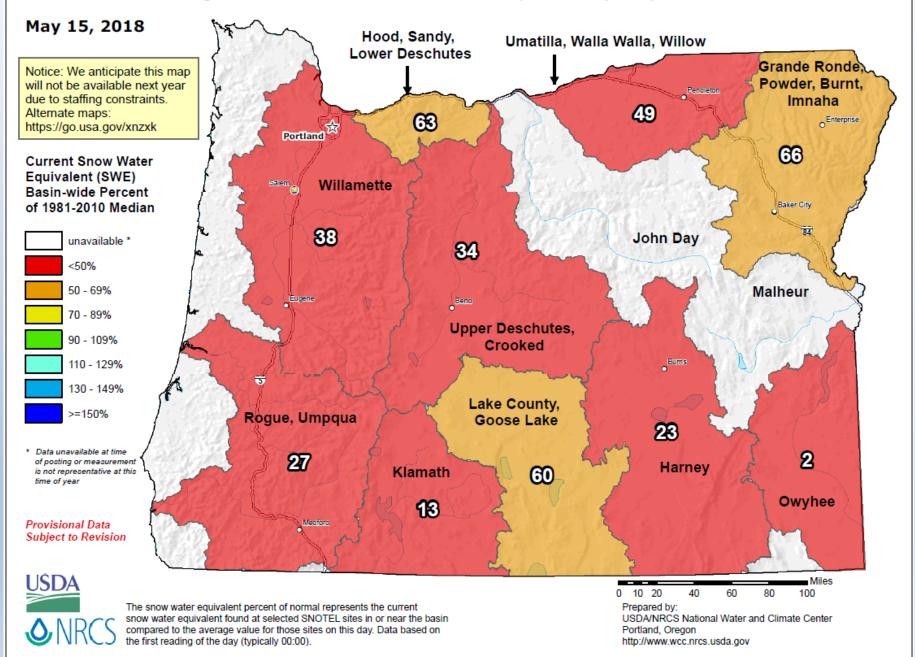


http://www.wcc.nrcs.usda.gov

the first reading of the day (typically 00:00).

#### Statewide SNOTEL Snowpack is 41% of normal

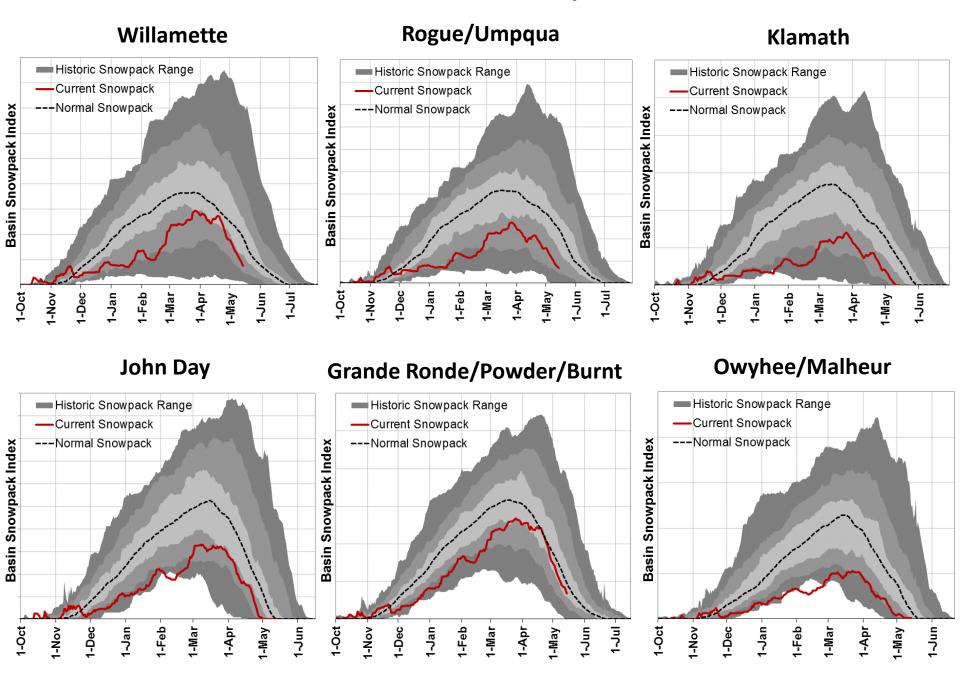
#### Oregon SNOTEL Current Snow Water Equivalent (SWE) % of Normal



#### Basin SWE Summary – May 14, 2018 – Statewide SWE % of Normal = 46%

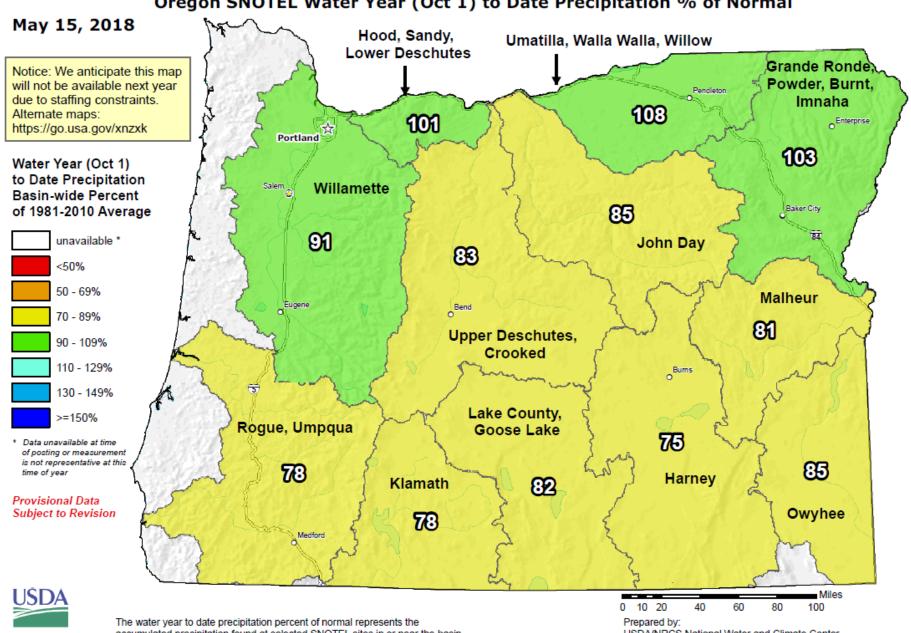
7/23 SNOTEL sites with measurable SWE (0 site with SWE below 4000')
3/12 SNOTEL sites with measurable SWE (0 sites with SWE below 5000')
5/8 SNOTEL sites with measurable SWE
4/14 SNOTEL sites with measurable SWE (1 site with SWE below 5000')
1/18 SNOTEL sites with measurable SWE (Annie Springs, Crater Lake, 6010')
1/9 SNOTEL sites with measurable SWE
3/8 SNOTEL sites with measurable SWE (All sites with SWE above 4920')
0/13 SNOTEL sites with measurable SWE
0/9 SNOTEL sites with measurable SWE
6/17 SNOTEL sites with measurable SWE (All sites with SWE above 4920')
0/3 SNOTEL sites with measurable SWE
0/8 SNOTEL sites with measurable SWE

#### Water Year 2018 - May 14th



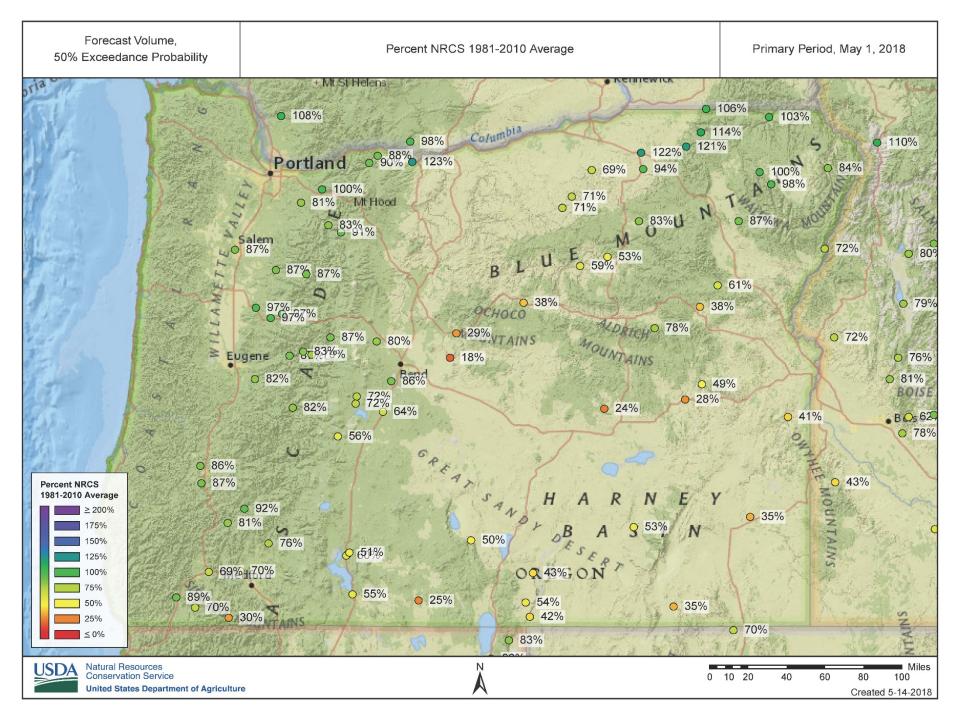
#### Statewide SNOTEL Precipitation is 91% of normal on May 14, 2018

Oregon SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal



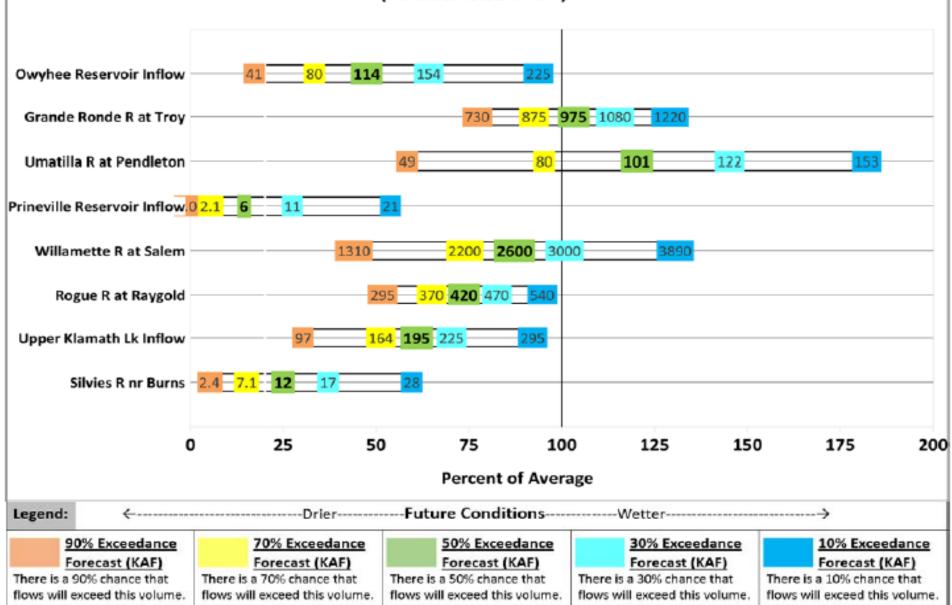
accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

USDA/NRCS National Water and Climate Center Portland, Oregon http://www.wcc.nrcs.usda.gov



#### **Summary of Streamflow Forecasts across Oregon**

May through September Forecast Volumes at a Selection of Streamflow Points (Volumes listed in KAF)



#### Thank you!

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.





# Oregon Water Supply Availability

**May 2018** 

#### **USGS Update on Surface Water Conditions**

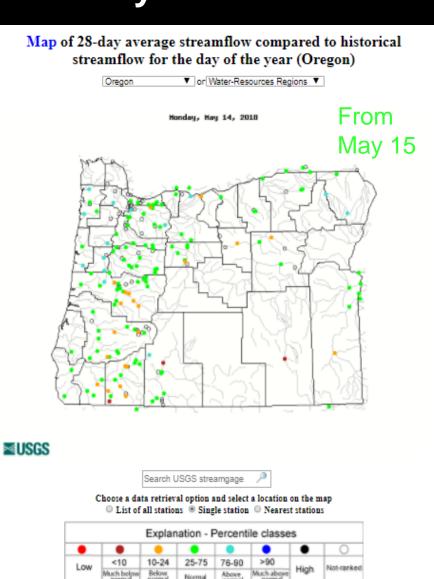
**Marc Stewart & Carrie Boudreau** 

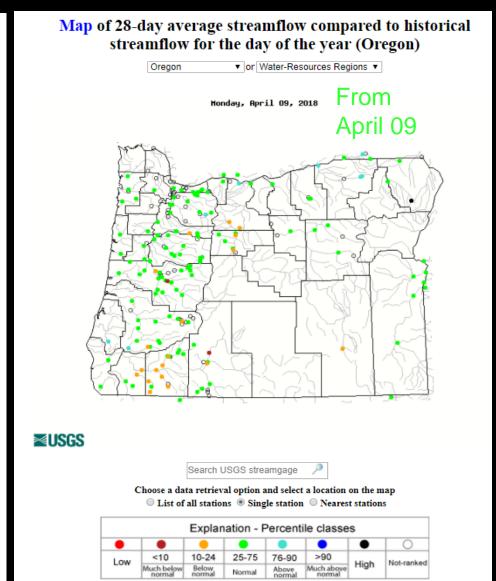
**USGS ORWSC** 

Provisional Data Statement

Data are provisional and subject to revision until they have been thoroughly reviewed and received final approval.

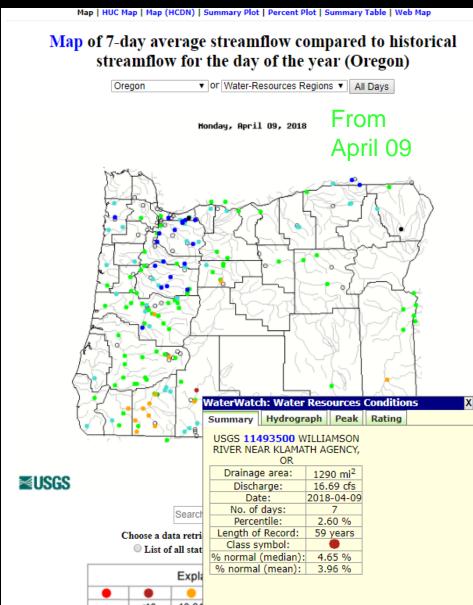
# Oregon Map of 28-day average streamflow compared to historical streamflow for the day of the year





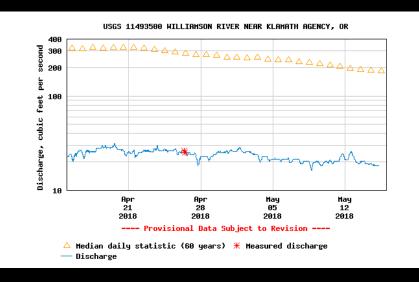
Oregon Map of 7-day average streamflow compared to historical streamflow for the day of the year

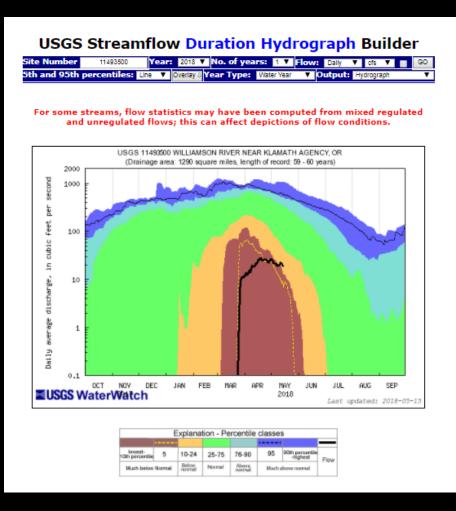
Map | HUC Map | Map (HCDN) | Summary Plot | Percent Plot | Summary Table | Web Map Map of 7-day average streamflow compared to historical streamflow for the day of the year (Oregon) ▼ or Water-Resources Regions ▼ All Days Oregon From Honday, Hay 14, 2018 May 14 **EUSGS** Search USGS streamgage Choose a data retrieval option and select a location on the map List of all stations
 Single station
 Nearest stations Explanation - Percentile classes



#### KLAMATH BASIN 11493500 WILLIAMSON RIVER NEAR

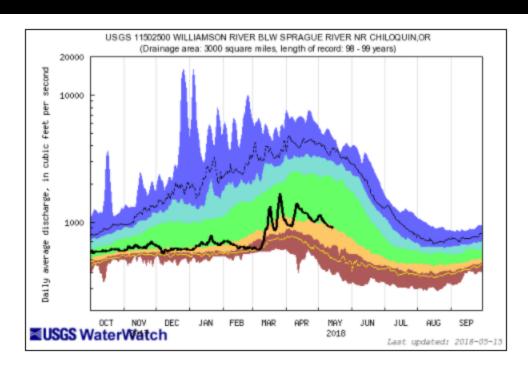
#### **KLAMATH AGENCY, OR**







## **KLAMATH BASIN**



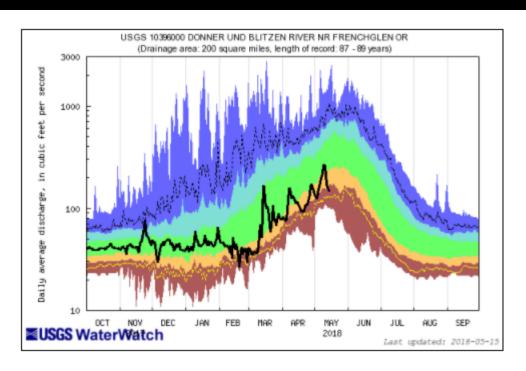
	Е	xplana	tion - Pe	ercentile	classe	s	
						•	_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much	above normal	7 100

Monthly Avg. 1,111 cfs 61% of Avg. for April (1981-2010)

\* March 55% Avg.



#### **DONNER BLITZEN & HARNEY BASIN**

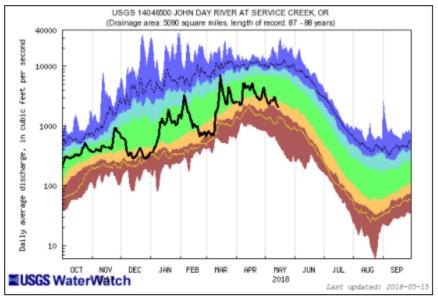


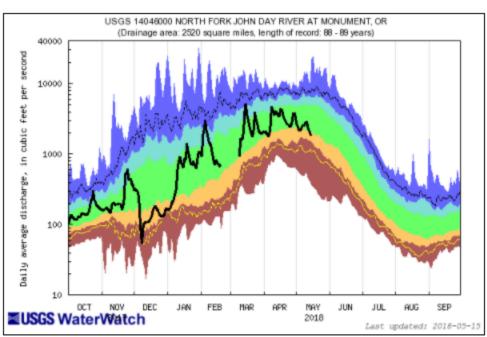
	Е	xplana	tion - Pe	ercentile	classe	s	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Mach	above normal	7 104

Monthly Avg. 116 cfs 52% of Avg. for April (1981-2010)

\*45% Avg. Feb. 42% of Avg. March









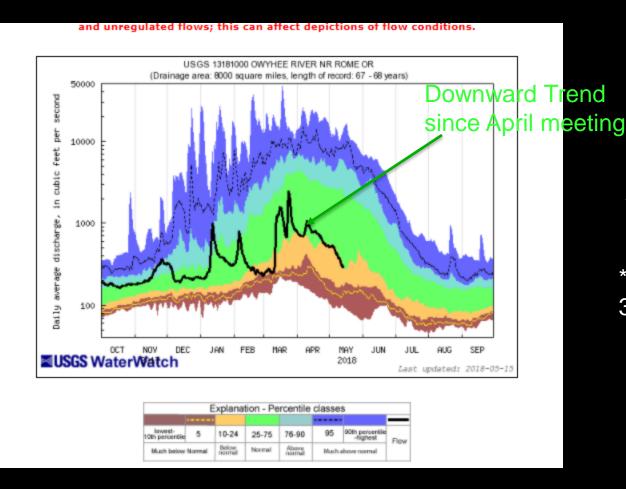
### **UPPER JOHN DAY**

Monthly Avg. 3658 cfs 69% of Average for April (1981-2010)

\*56% Avg. in Feb. & 57% in March

Although a bump up in % of Average of flow for April flow is trending towards Below normal & Much below normal

### **OWYEE BASIN**

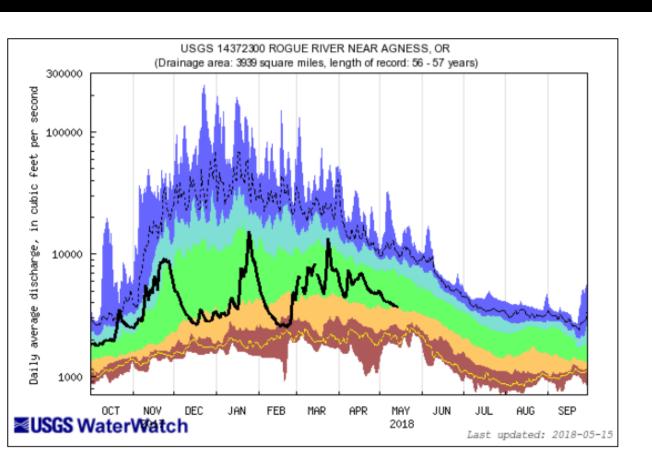


Monthly Avg. 736 cfs 27% of Average for (1981-2010)

\*Feb 2018 was 29% Avg. 32% of Average for March



## ROGUE/UMPQUA BASIN

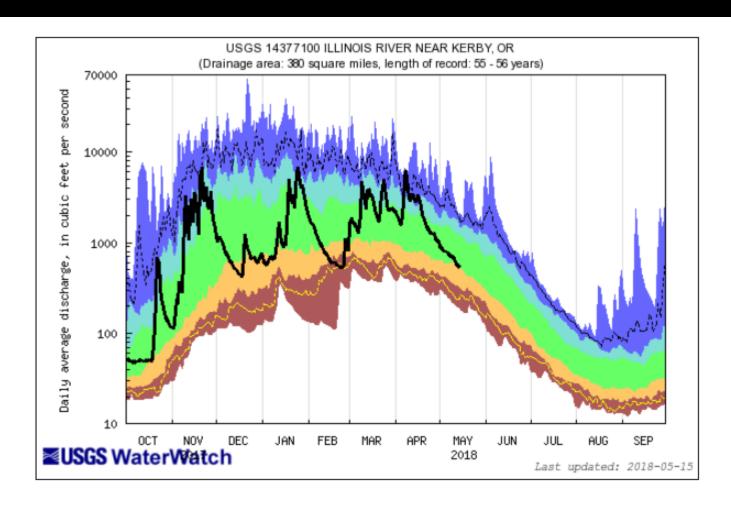


Monthly Avg. 9424 cfs 88% of Average for April (1981-2010)

\* Feb 2018 was 36% Avg. & 86% for March

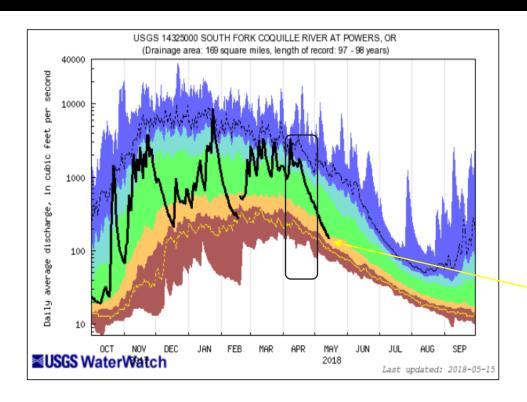
	E	xplana	tion - Pe	rcentile	classes	ŝ	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much a	Much above normal	

## ROGUE/UMPQUA BASIN



Non Regulated site with flows Approaching "Below normal"

	Е	xplana	tion - Pe	rcentile	classes	ŝ	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below	Normal	Below normal	Normal	Above normal	Much a	bove normal	11011



Explanation - Percentile classes									
							_		
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow		
Much below Normal		Below normal	Normal	Above normal	Much above normal		11011		

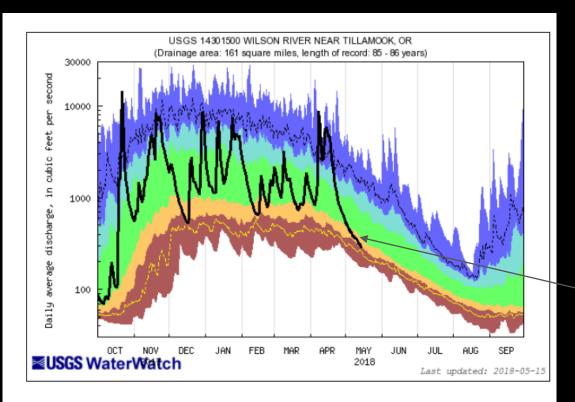
## **SOUTH COAST**

Monthly Avg. 1,206 cfs 130% of Avg. for April (1981-2010)

Feb 40% of Avg. & 147 % in Marc

\* May flows lower.





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

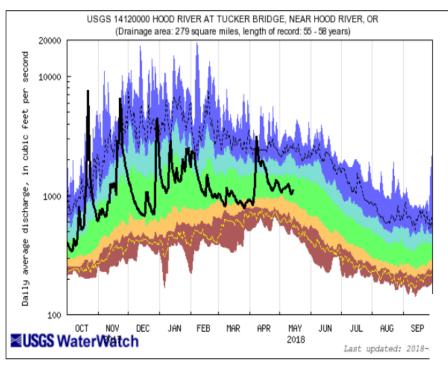
## **North COAST**

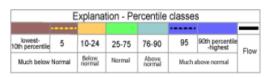
Monthly Avg. 2469 cfs 208% of Avg. for April (1981-2010)

May?

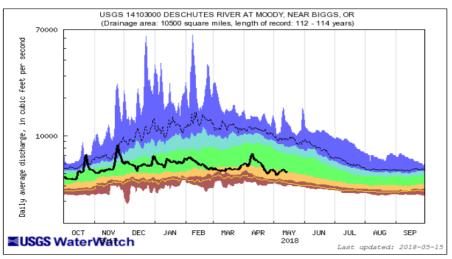


## LOWER DESCHUTES / MT HOOD





Monthly Avg. 2570 cfs 118% of Avg. for April (1981-2010)







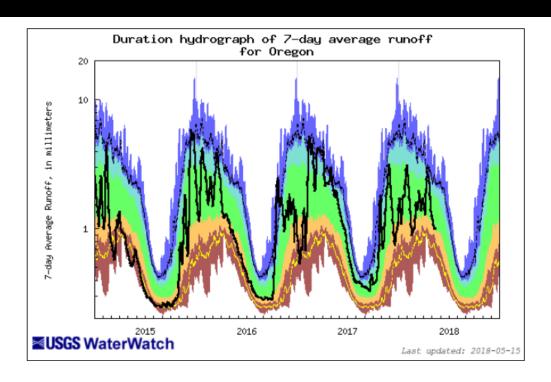
## **Other SWSI Basins**

	SWSI Basin	cfs	% Avg. March			
Willamette River at Salem	Willamette	29,594	126	34	91	
Wilson River near Tillamook	North Coast	2,469	208	82	119	
Umpqua River near Elkton	Rogue/Umpqua	9,424	102	-16	71	
(*)Deep Creek above Adel	Lake County	277	75	133	65	
(*)Chewaucan River near Paisley	Lake County	301	84	171	74	



https://or.water.usgs.gov/data\_dir/war\_dir/

https://waterwatch.usgs.gov/index.php?id= ww\_annual\_summary



	Е	xplana	tion - Pe	ercentile	classes	ŝ	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below Normal		Below normal	Normal	Above normal	Much a	bove normal	

Power Point "USGS Update on Surface Water Conditions"

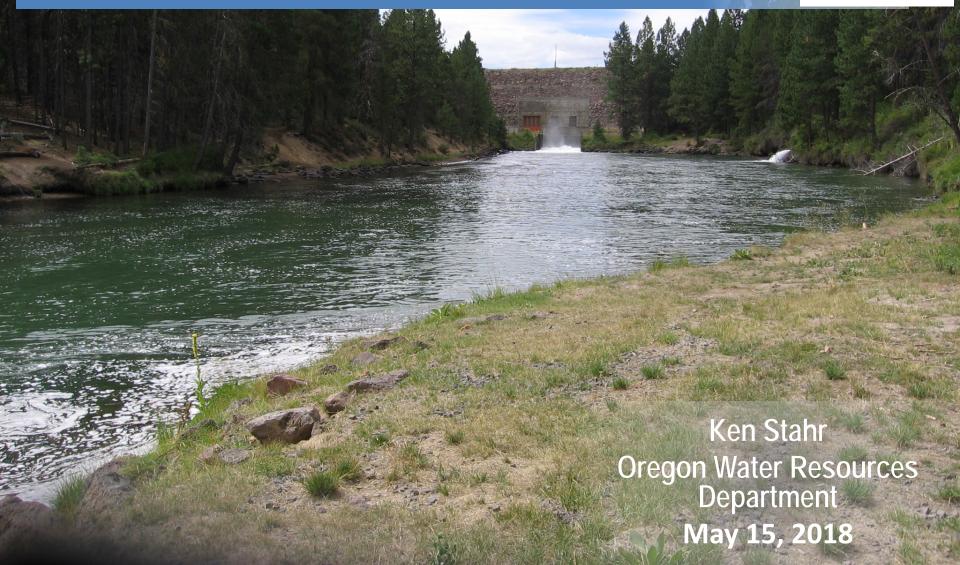
By: Marc Stewart & Carrie Boudreau USGS ORWSC

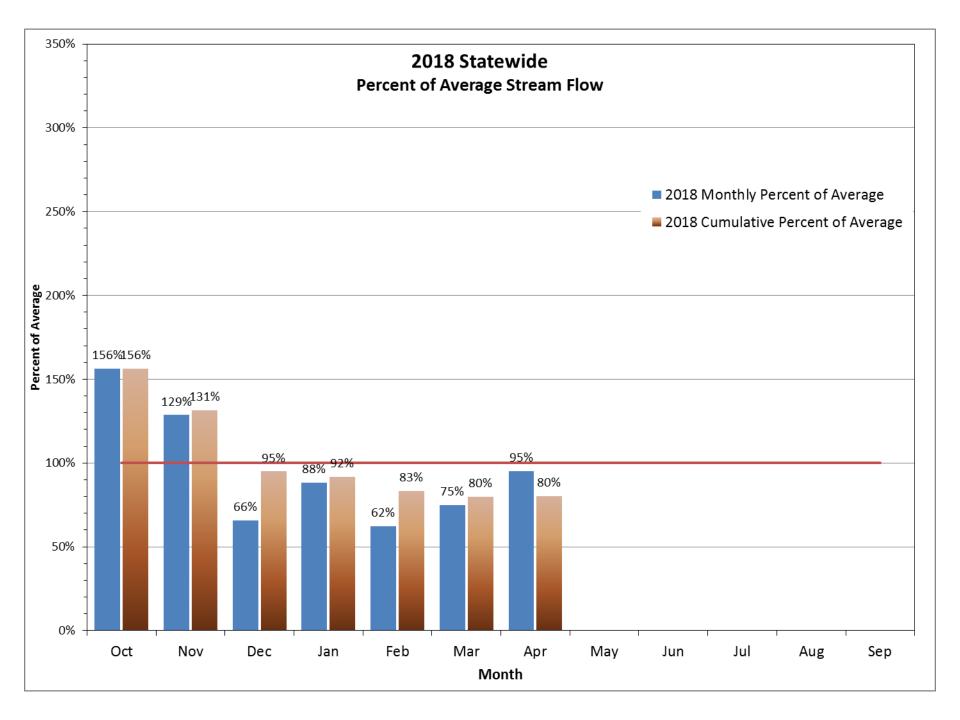
Water Availability Report By: Tiffany Rae Jacklin USGS ORWSC

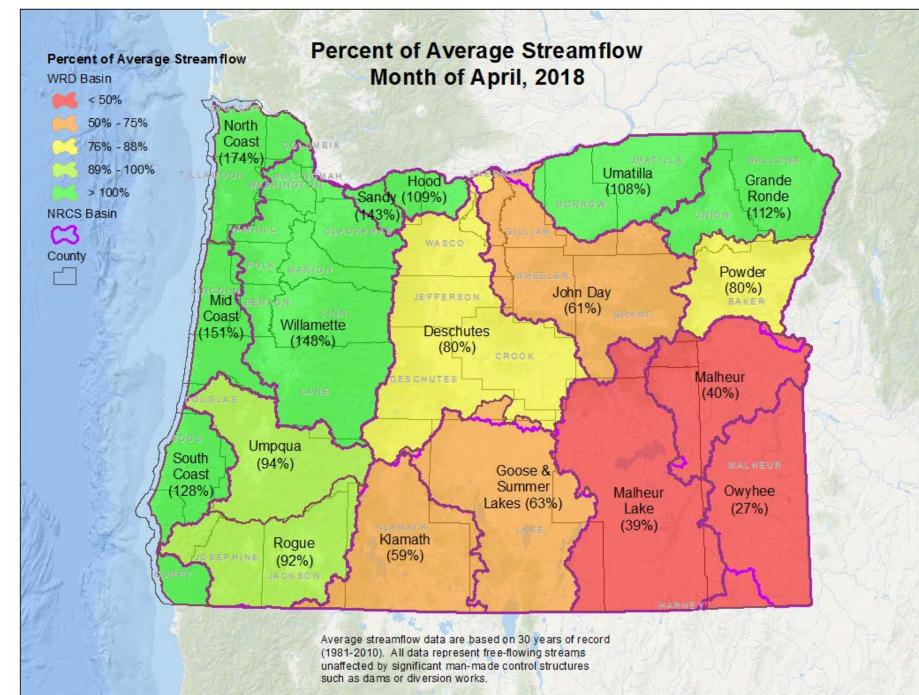


## Surface Water Conditions Report Water Supply Availability Committee

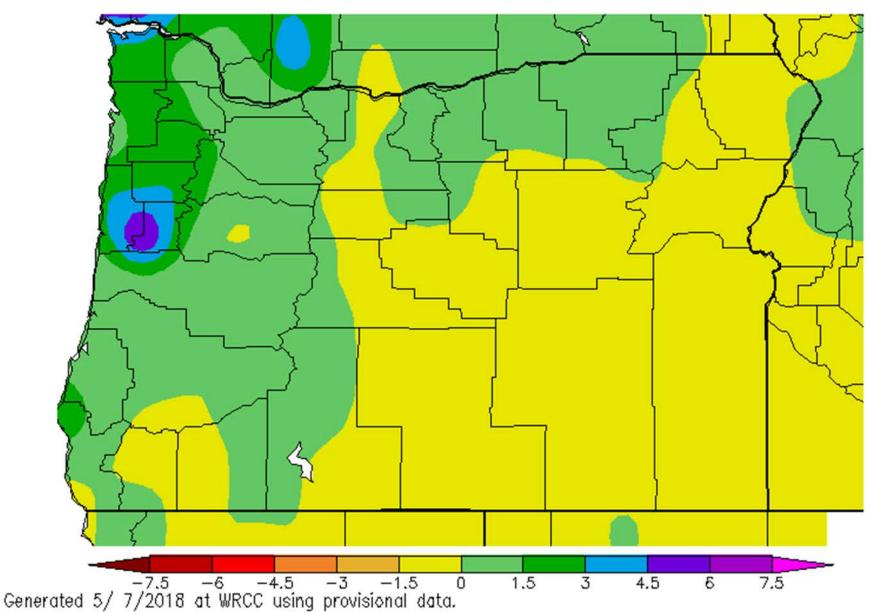




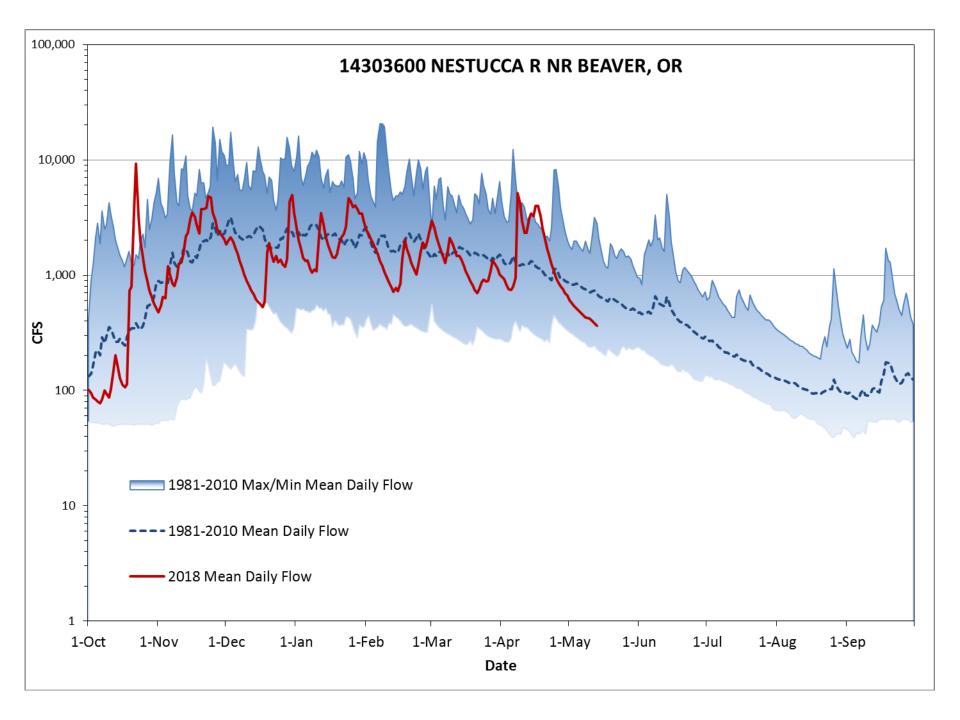


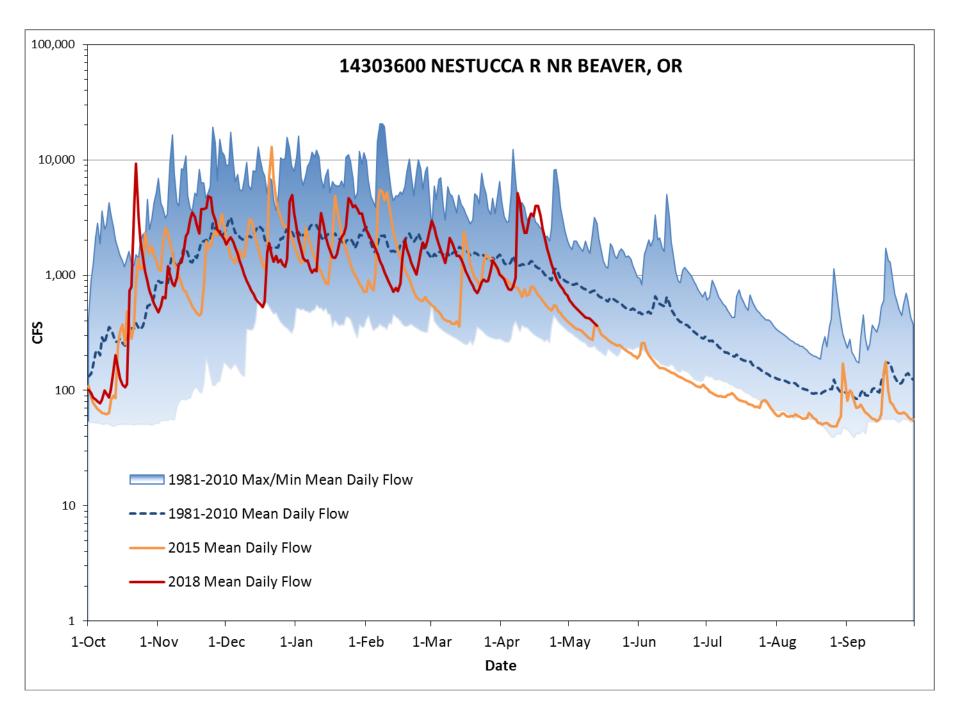


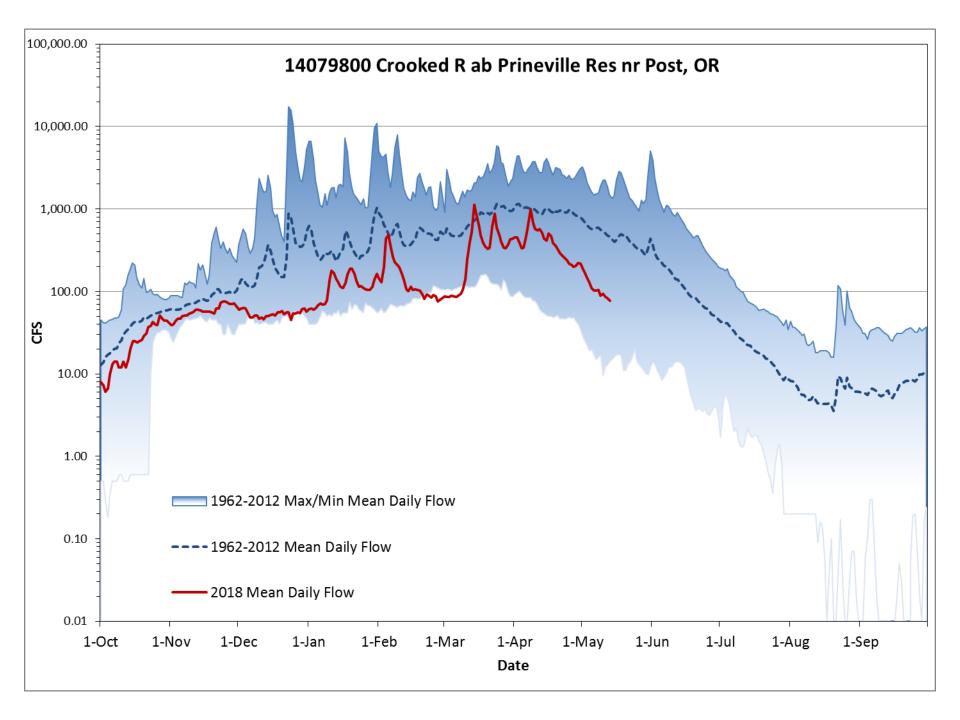
Precipitation Departure from Average (in.) 4/7/2018 - 5/6/2018

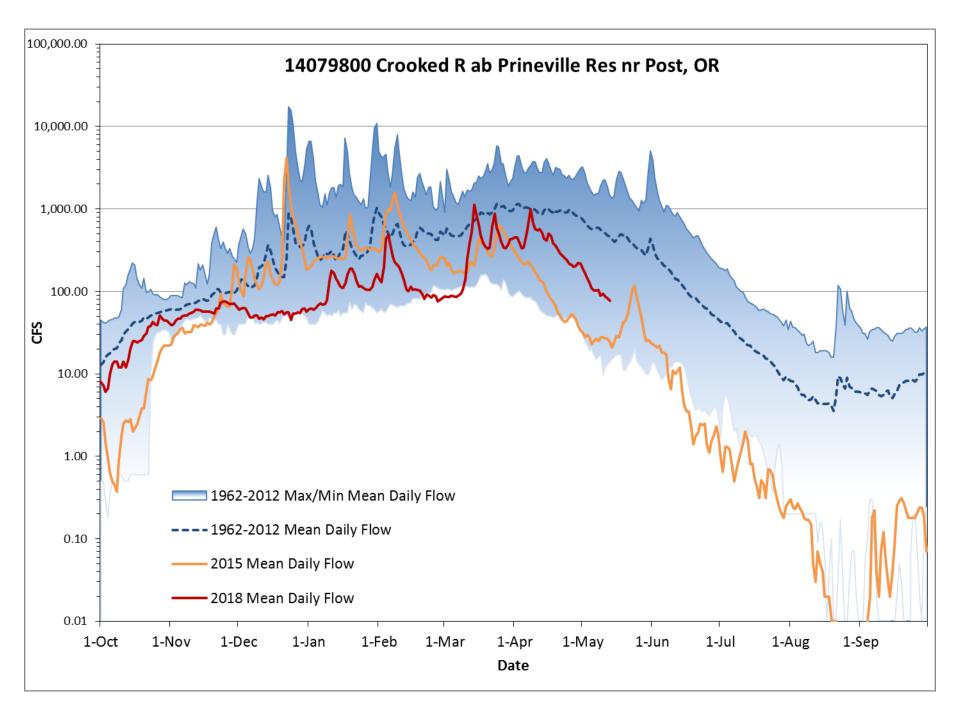


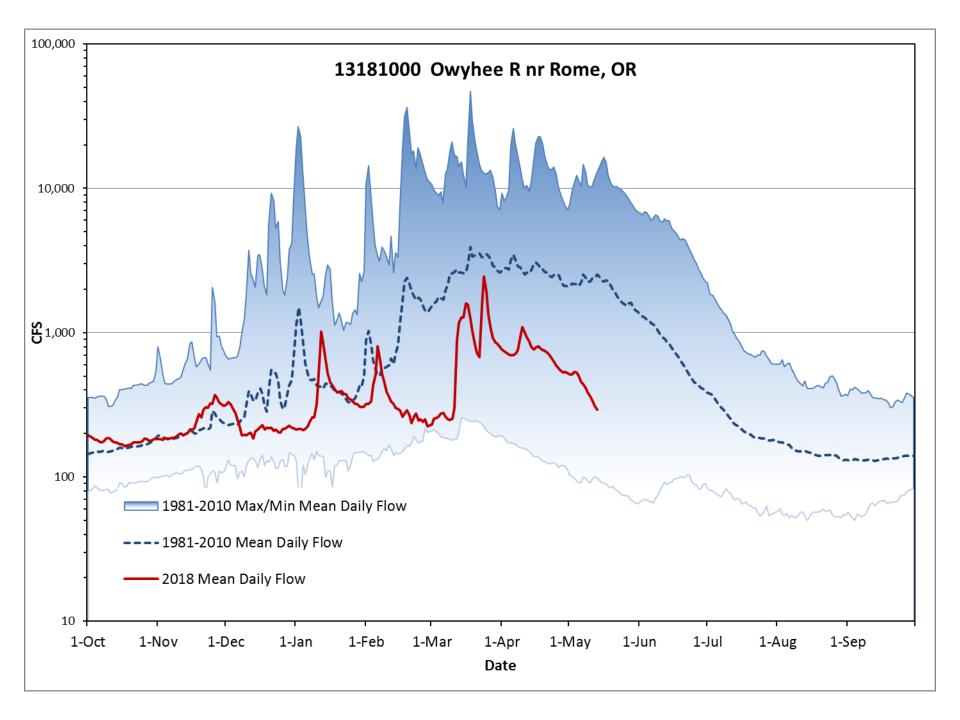
NOAA Regional Climate Centers

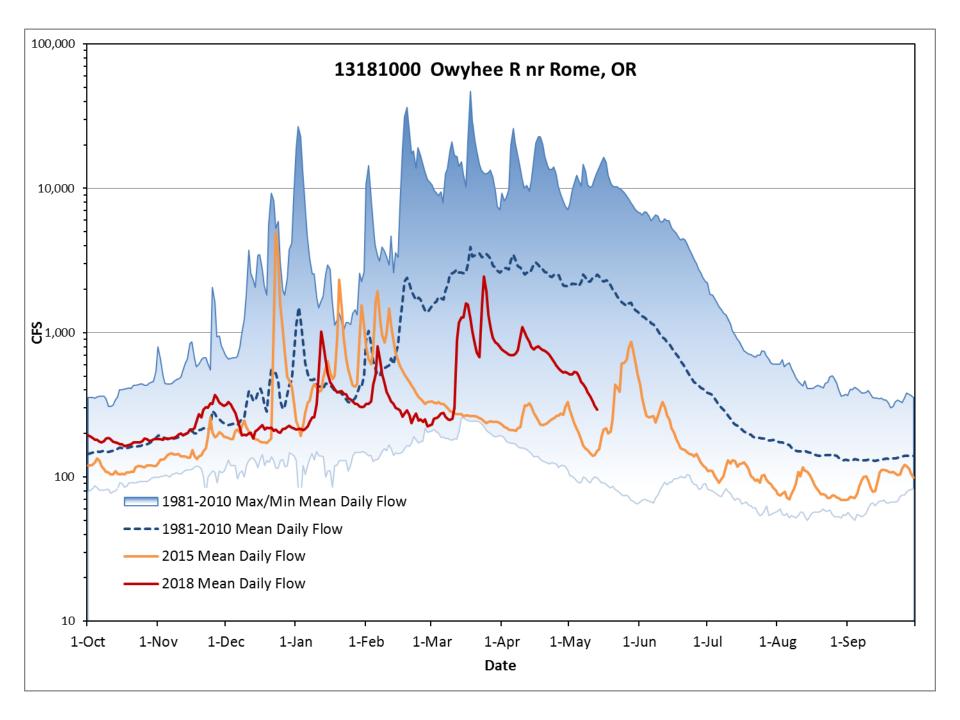






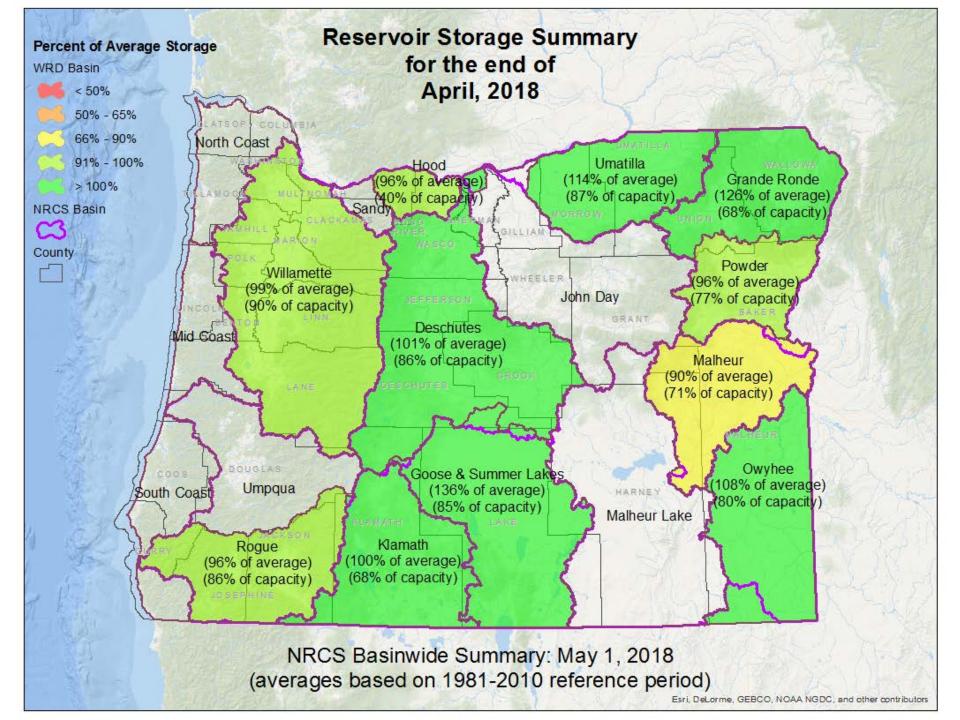








## Thank you.





## Oregon Water Supply Availability

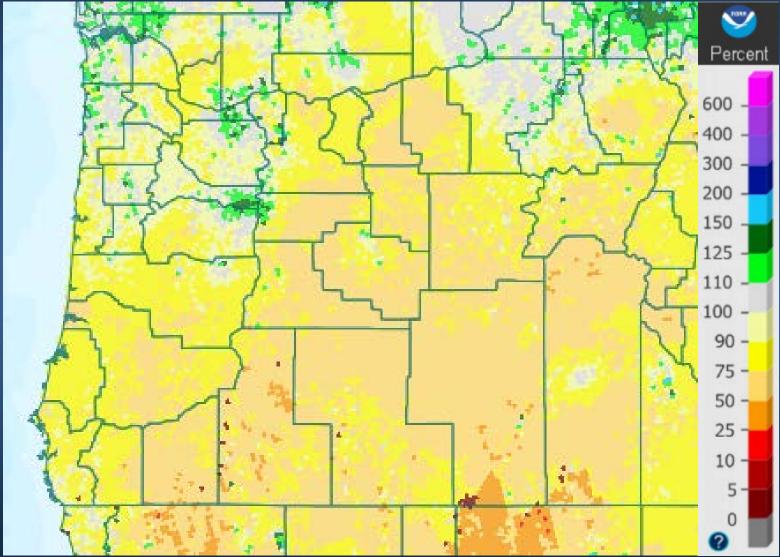
May 15, 2018 National Weather Service Update





## WY2018 Precipitation thus far

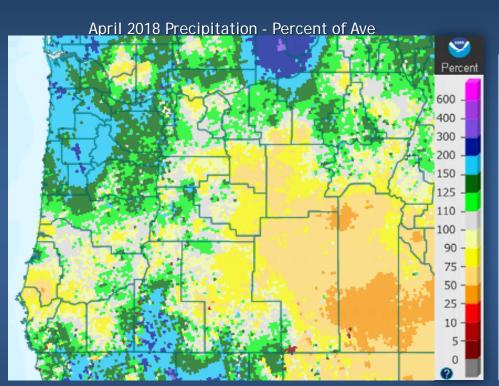


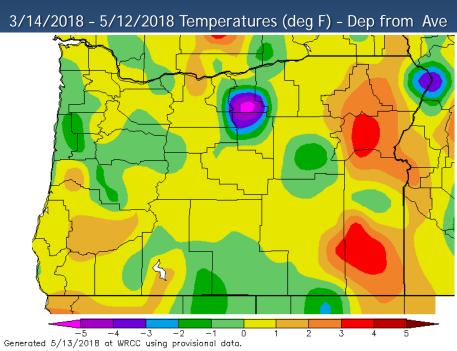


Source: water.weather.gov/precip/index.php?location\_type=wfo&location\_name=pqr



# Recent Conditions Precipitation & Temperatures



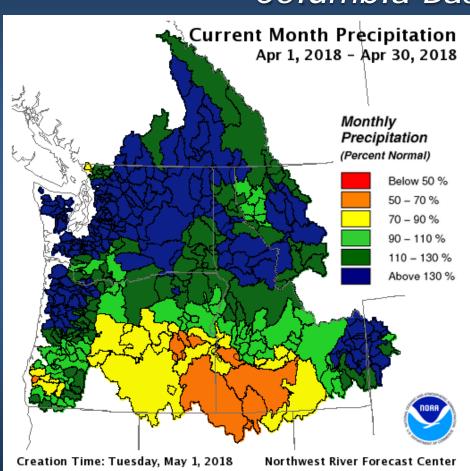


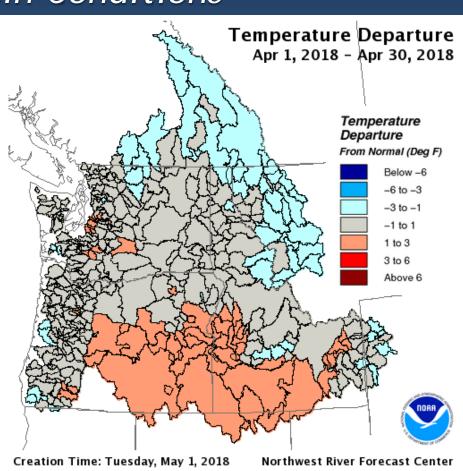
Source: water.weather.gov/precip/index.php?location\_type=wfo&location\_name=pqr

Source: wrcc.dri.edu/anom/ore\_anom.html



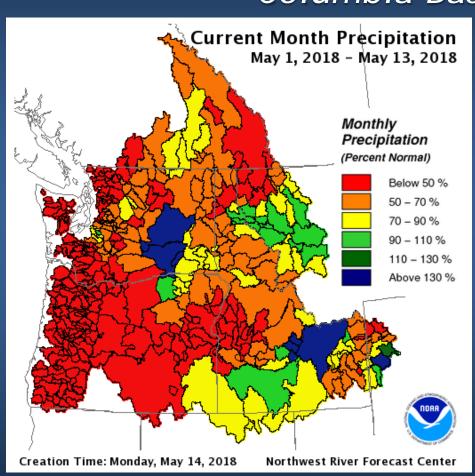
# April 2018 Precipitation & Temperatures Columbia Basin Conditions

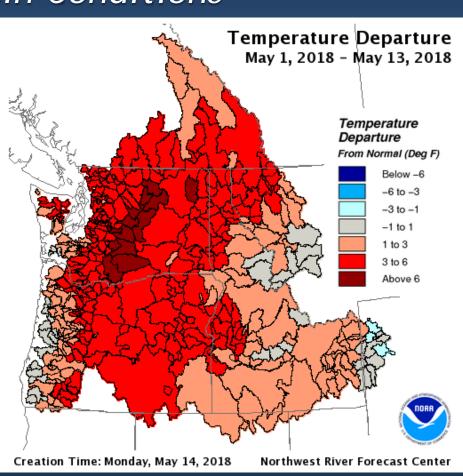






# May 1 - 14, 2018 Precipitation & Temperatures Columbia Basin Conditions





Source: www.nwrfc.noaa.gov/water\_supply/wy\_summary/wy\_summary.php?tab=2

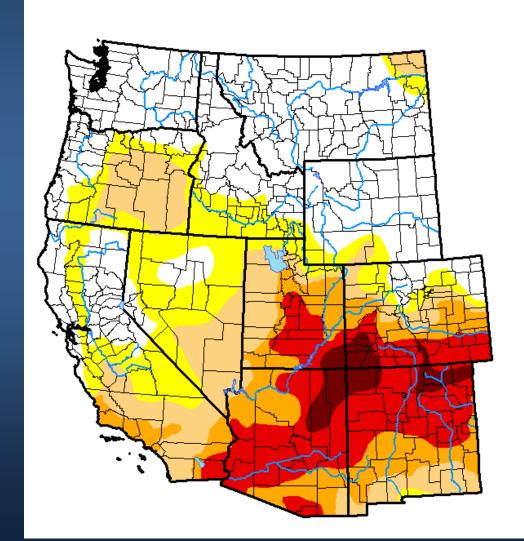


### Drought Monitor

U.S. Drought Monitor
West

May 8, 2018

(Released Thursday, May. 10, 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:

David Simeral Western Regional Climate Center







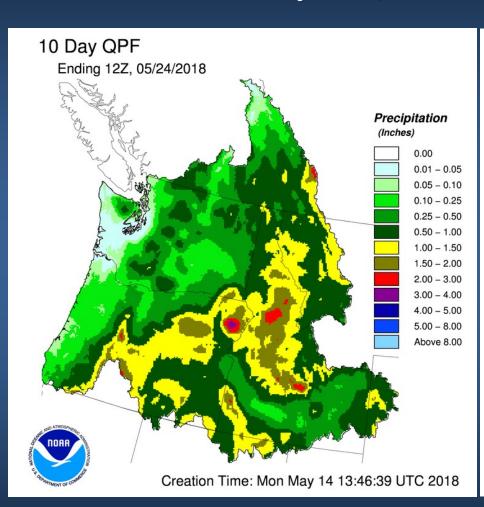


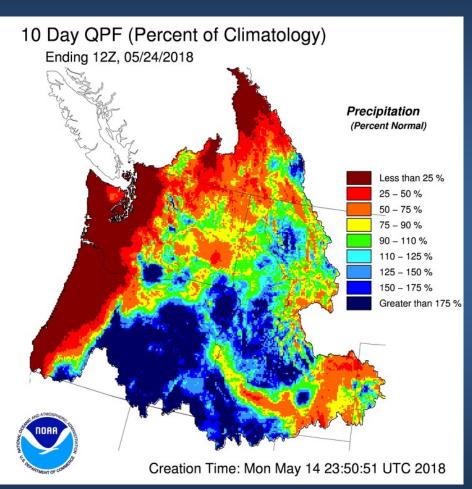
http://droughtmonitor.unl.edu/



## Mid-May Outlook

May 15-24, 2018 Forecast Precipitation



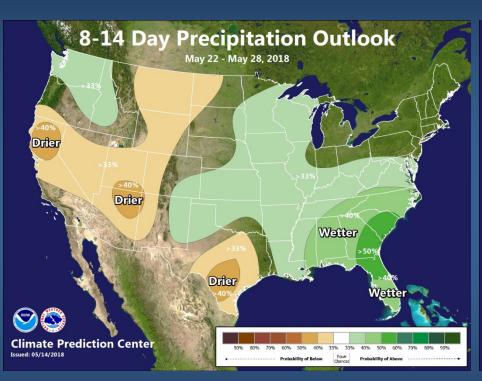


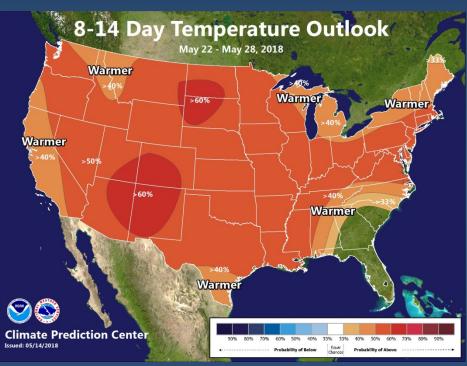
Temperatures near to above average for second half of May



## Late-May Outlook

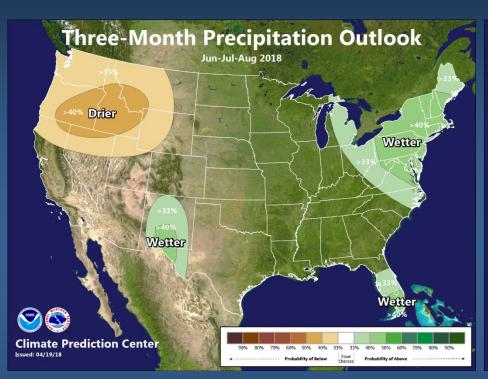
May 22-28, 2018 Precipitation & Temperature Outlook

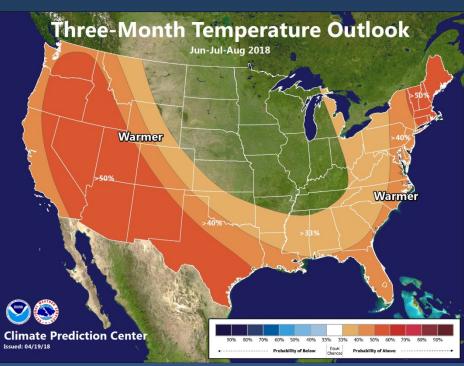






### Outlook for June-July-August 2018

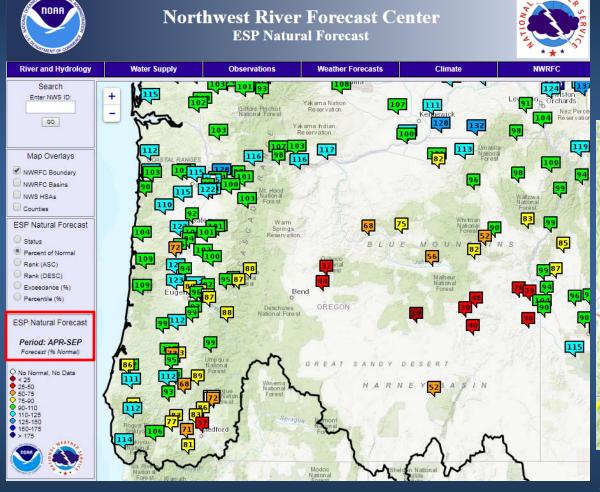


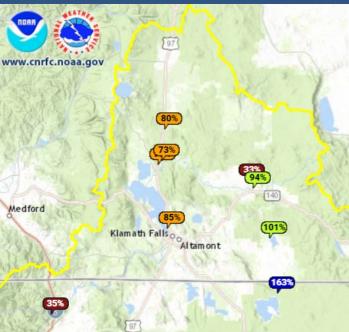




## Water Supply Forecasts

from early April

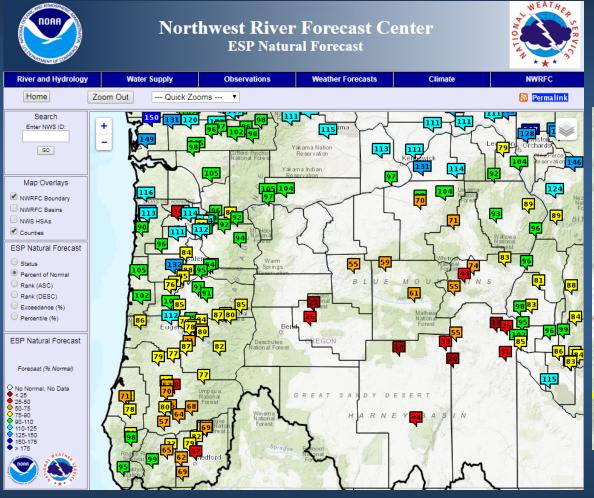




Source: www.nwrfc.noaa.gov & www.cnrfc.noaa.gov



## Water Supply Forecasts as of May 14th





Source: www.nwrfc.noaa.gov & www.cnrfc.noaa.gov



## Observed Water Year Runoff % of Average for Oct 1, 2017 - May 14, 2018

