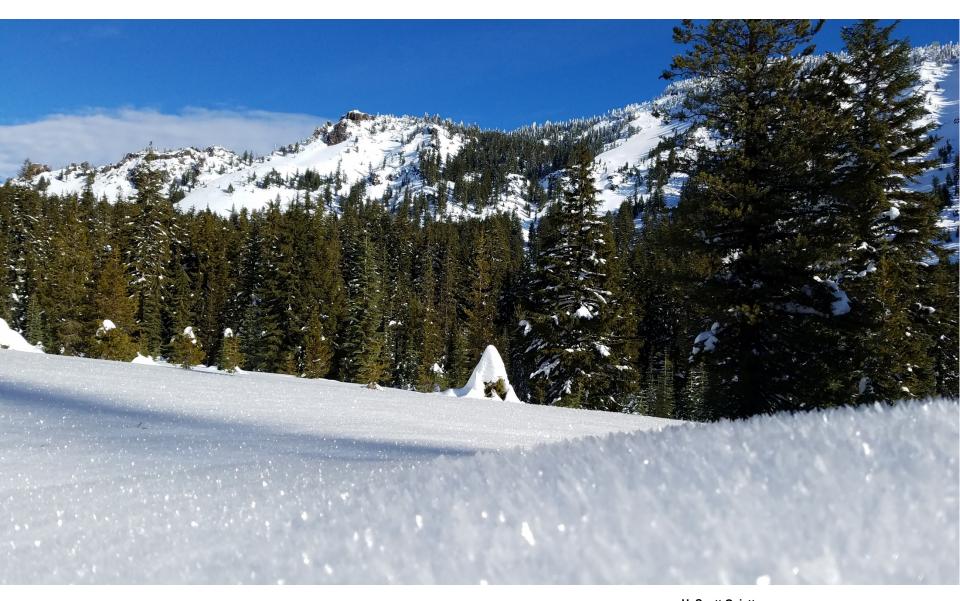
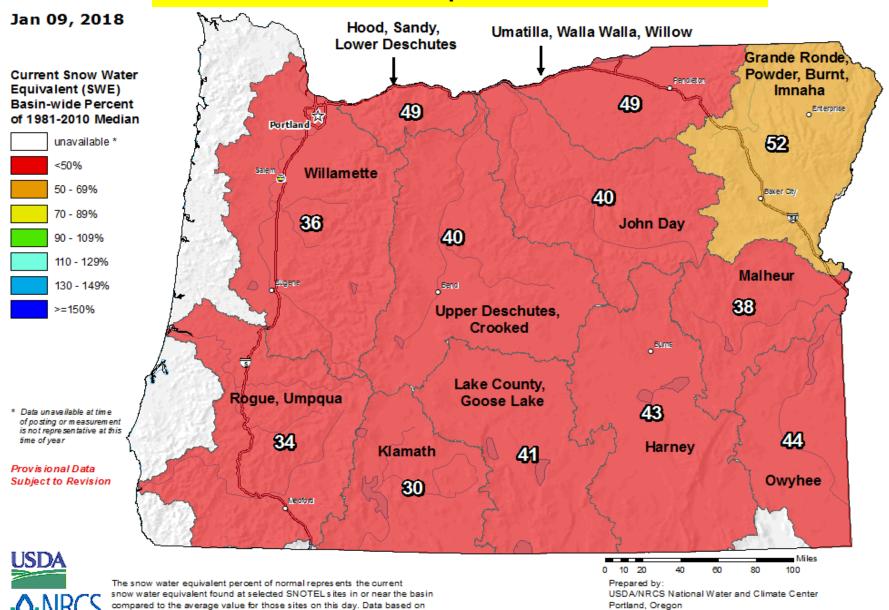
Oregon Water Supply Availability Committee January 8, 2019



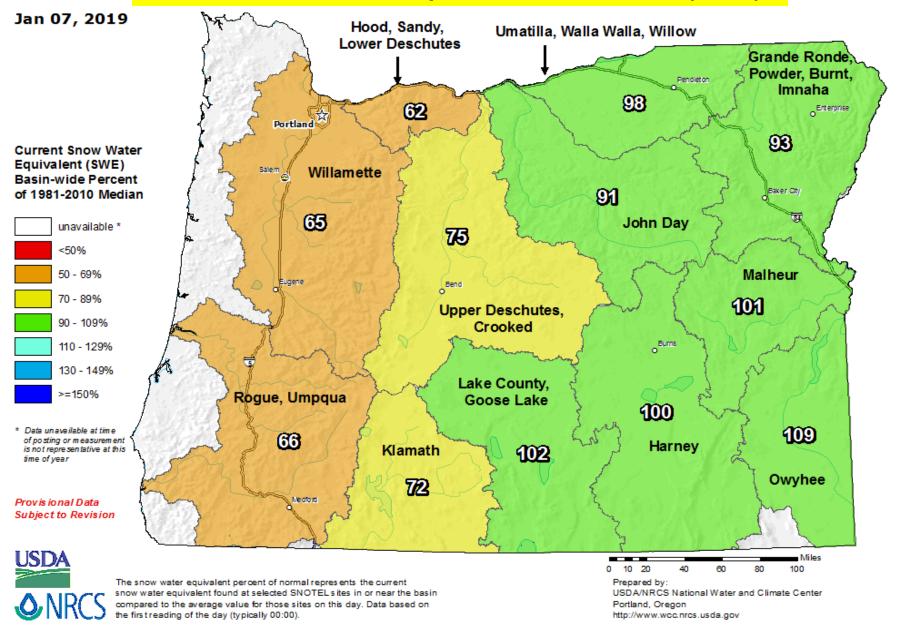
Statewide SNOTEL Snowpack is 39% of normal



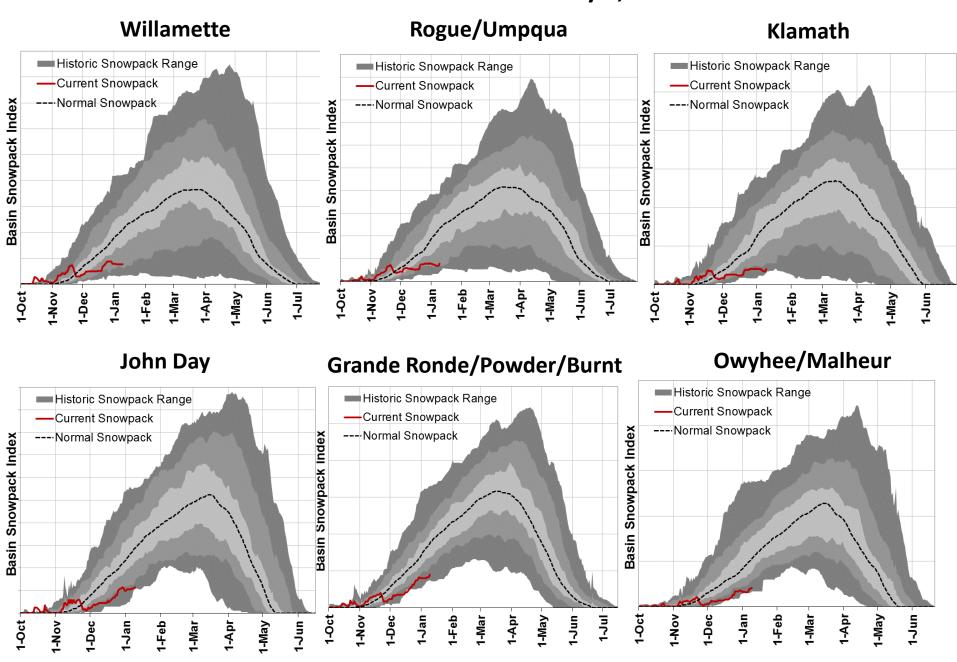
http://www.wcc.nrcs.usda.gov

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

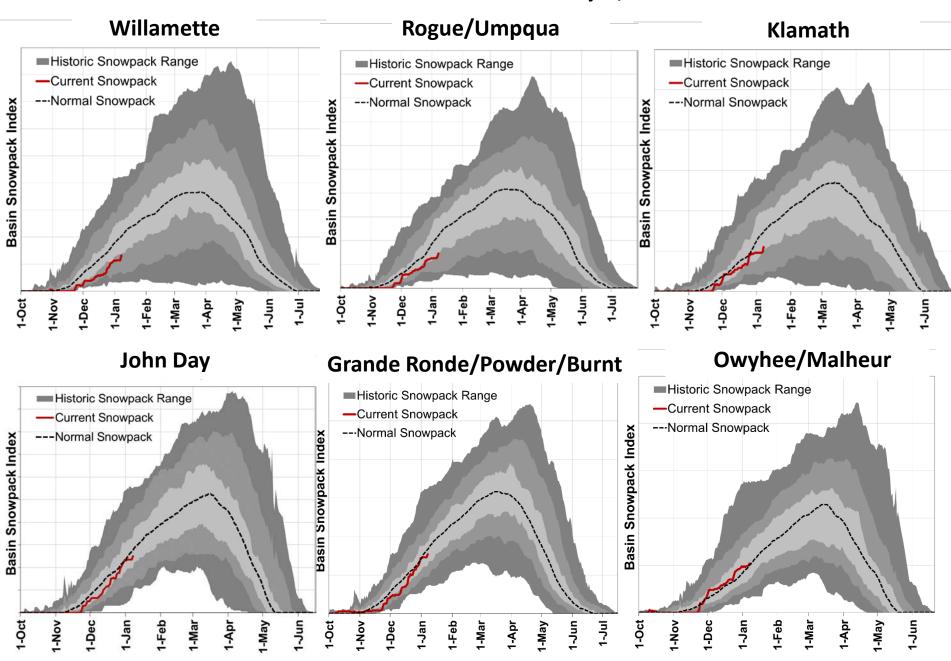
Statewide SNOTEL Snowpack is 73% of normal (01/08)



SNOWPACK GRAPHS – January 9, 2018

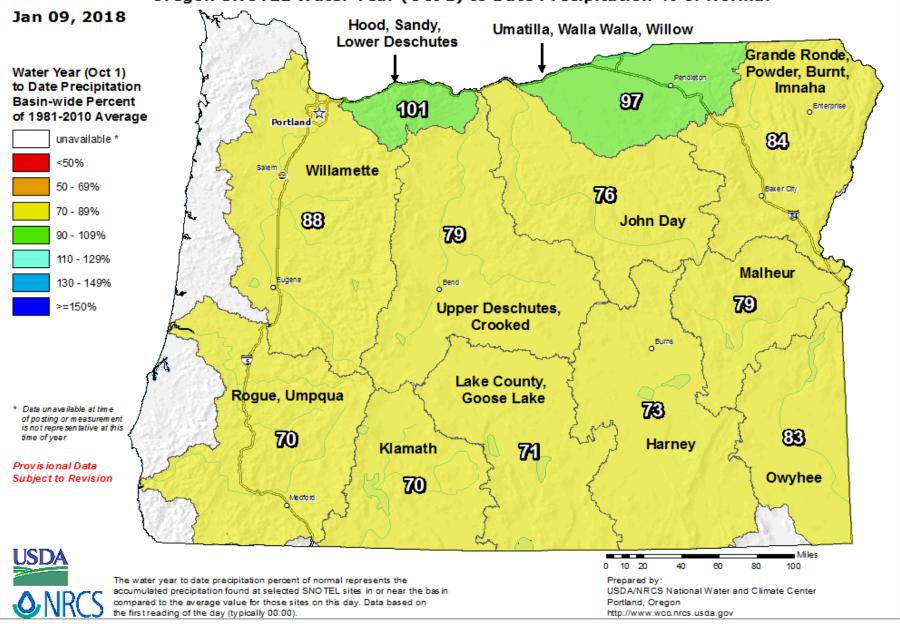


SNOWPACK GRAPHS – January 8, 2019



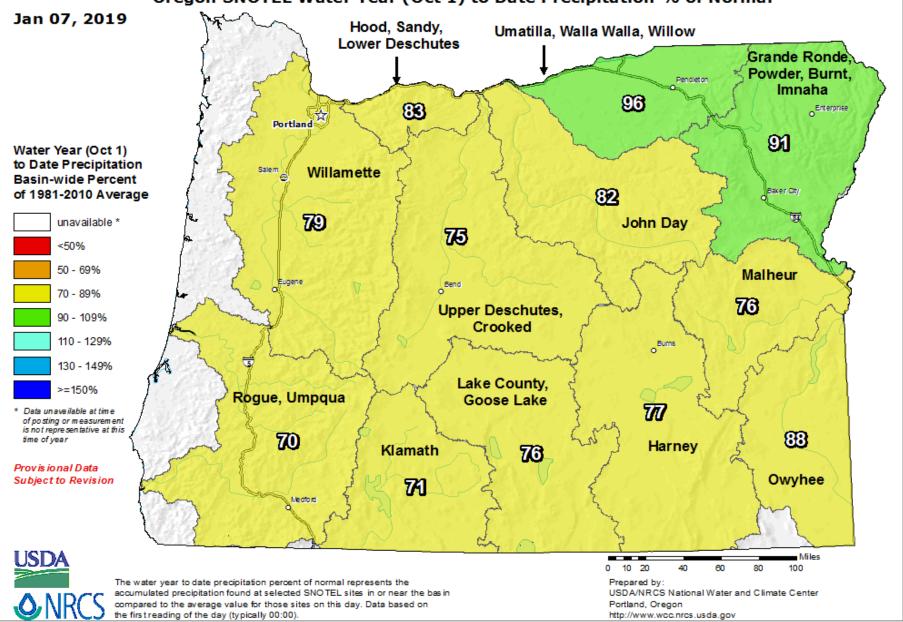
Statewide SNOTEL Precipitation is 85% of normal

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



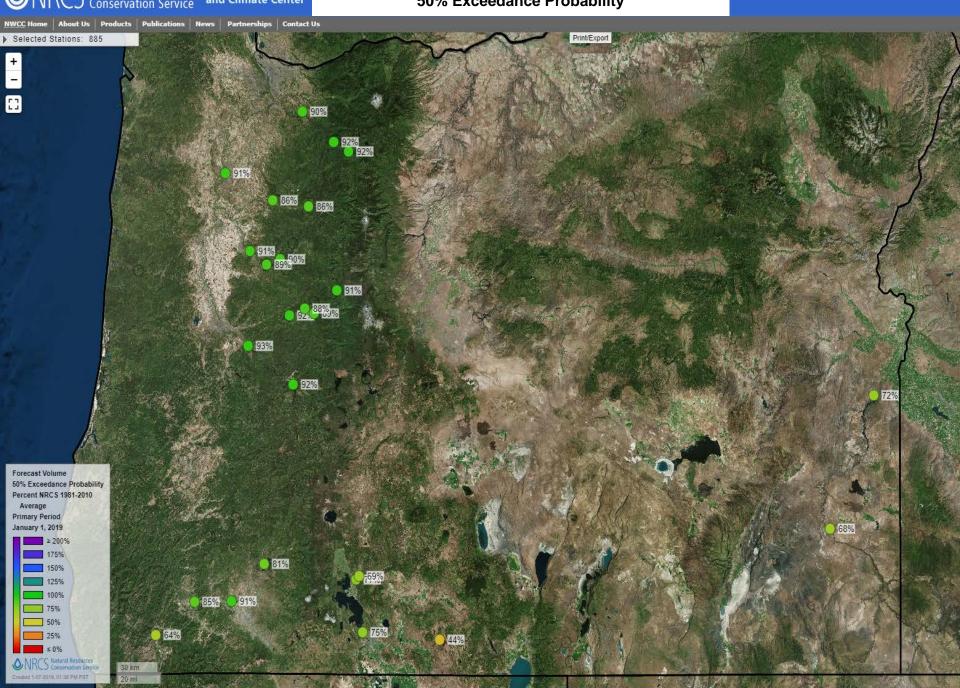
Statewide SNOTEL Precipitation is 78% of normal (01/08)

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

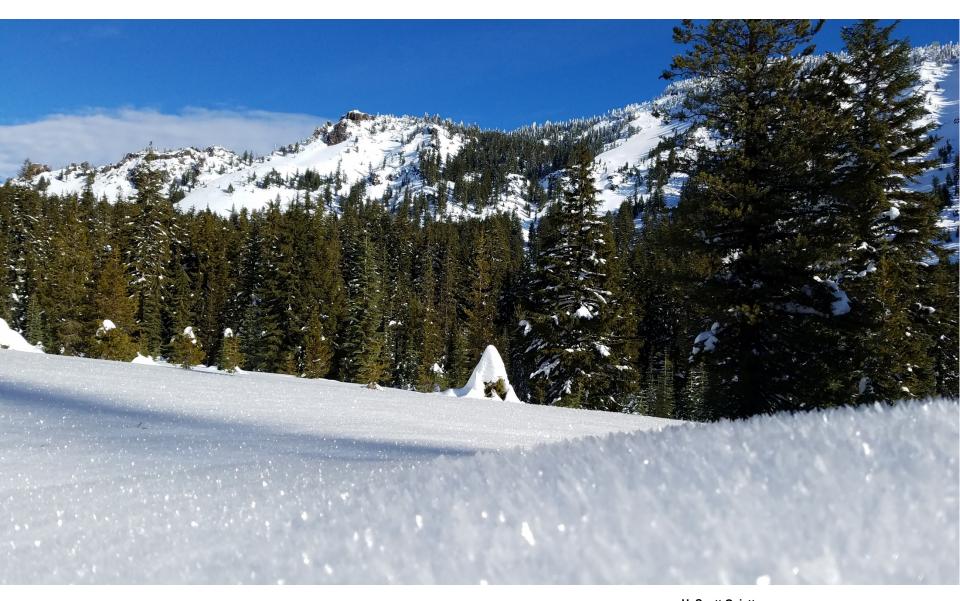


Onlited States Department of Agriculture
National Water
Conservation Service
National Water

January 1 Streamflow Volume Forecast % of Average 50% Exceedance Probability



Oregon Water Supply Availability Committee January 8, 2019



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.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

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.



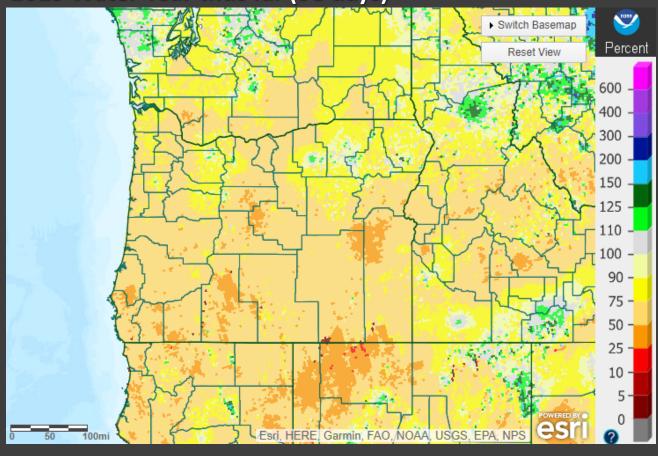
Oregon Water Supply Availability

January 8, 2019 National Weather Service Update

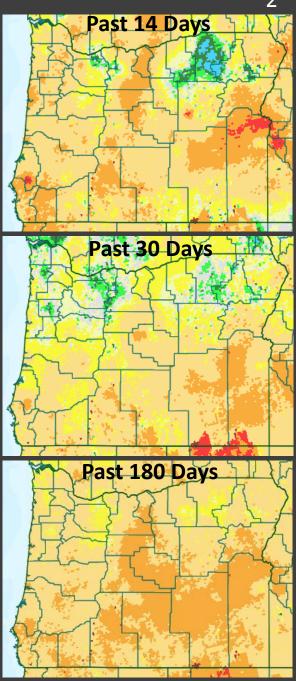
Andy Bryant, NWS Portland Weather Forecast Office Amy Burke & Steve King, NWS Northwest River Forecast Center

Precipitation % of Average

2019 Water Year thus far (98 days)

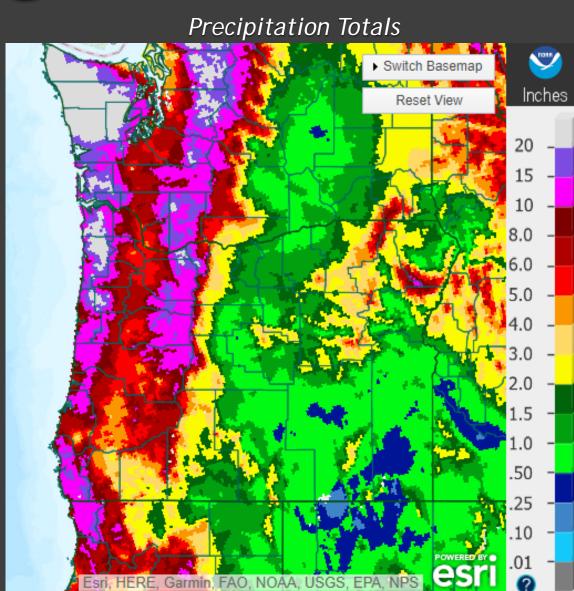


Precipitation Data as of January 7th, 2019





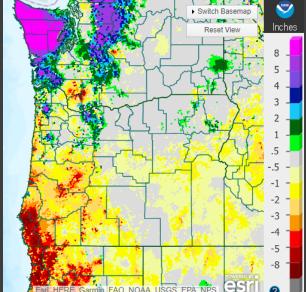
Precipitation Past 30 Days



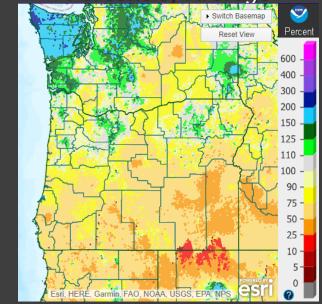
Precipitation Data as of January 7th, 2018

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



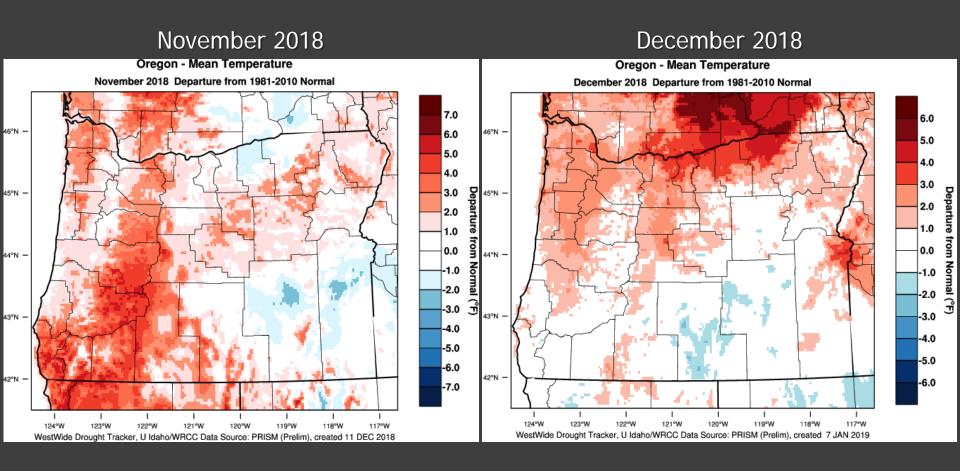


Percent of Average





Recent Temperatures



Temperatures thus far in January are above-average in northern Oregon and below-average in southern Oregon.



Drought Monitor



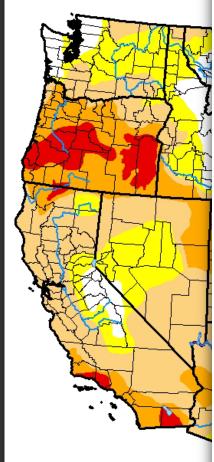
December 4, 2018

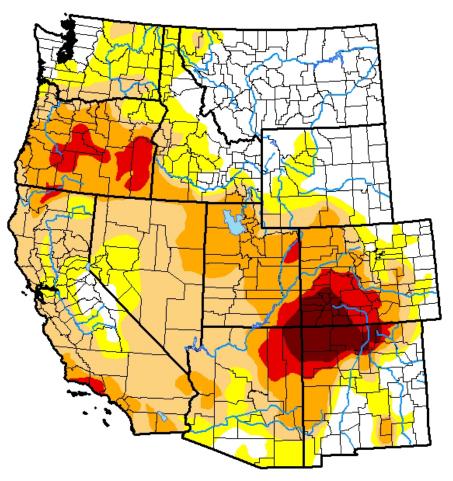
Wes

U.S. Drought Monitor
West

January 1, 2019

(Released Thursday, Jan. 3, 2019) Valid 7 a.m. EST





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 Miskus NOAA/NWS/NCEP/CPC





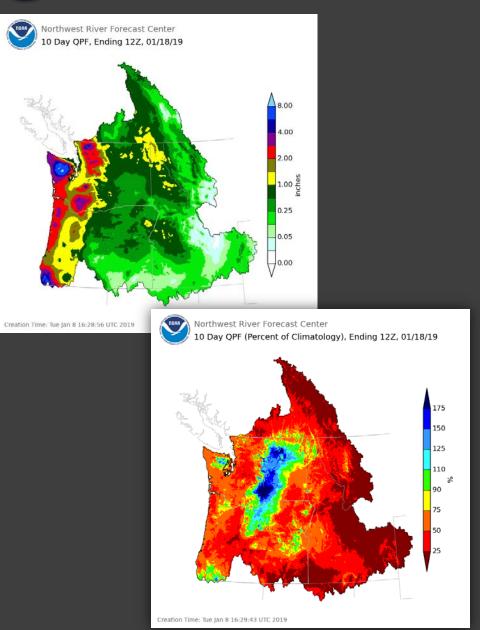


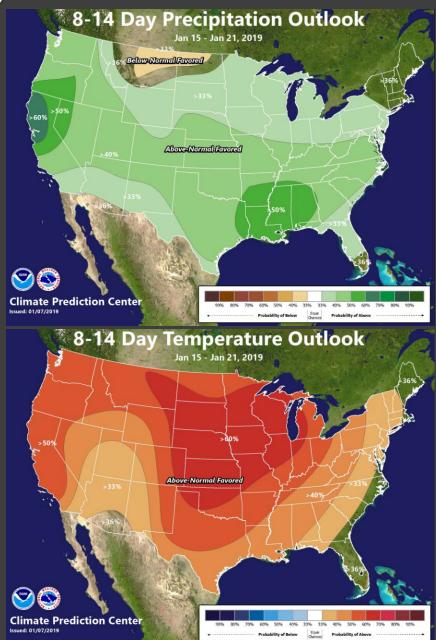


http://droughtmonitor.unl.edu/



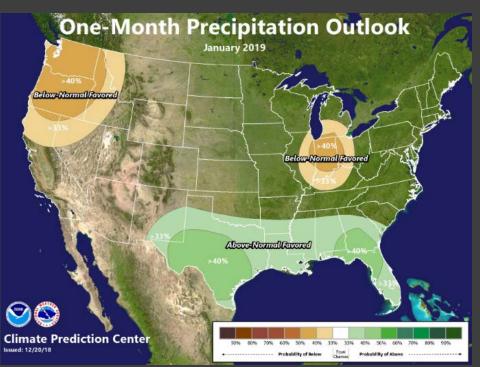
Mid-January Outlook

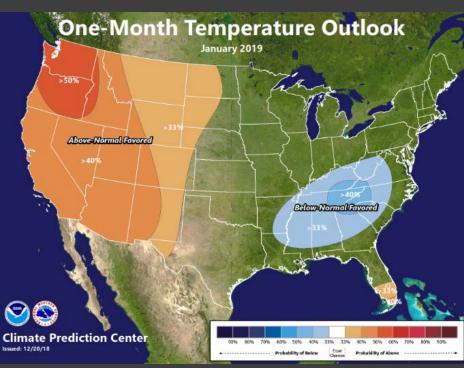






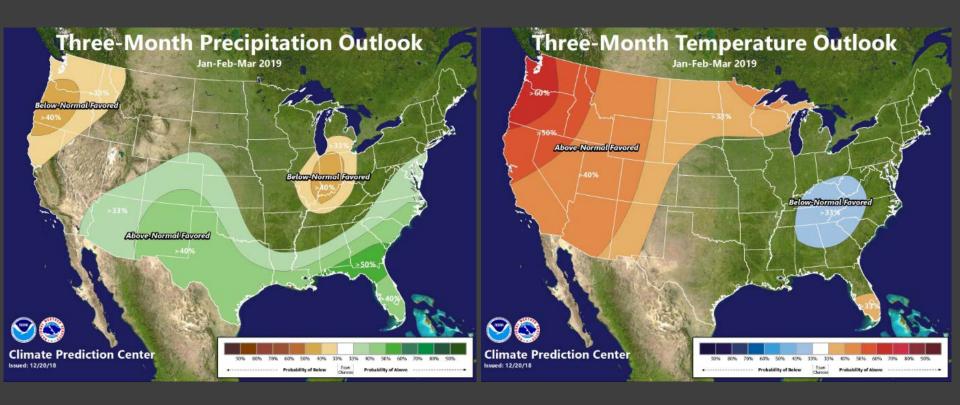
January Outlook





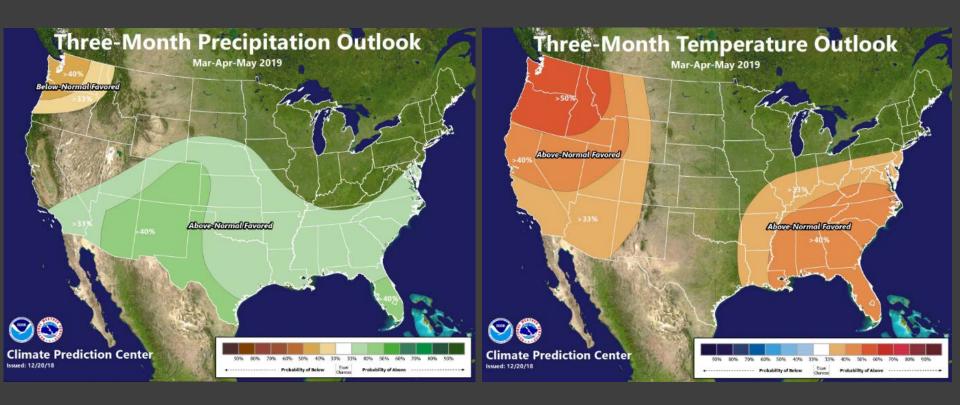


Outlook for January - March 2019



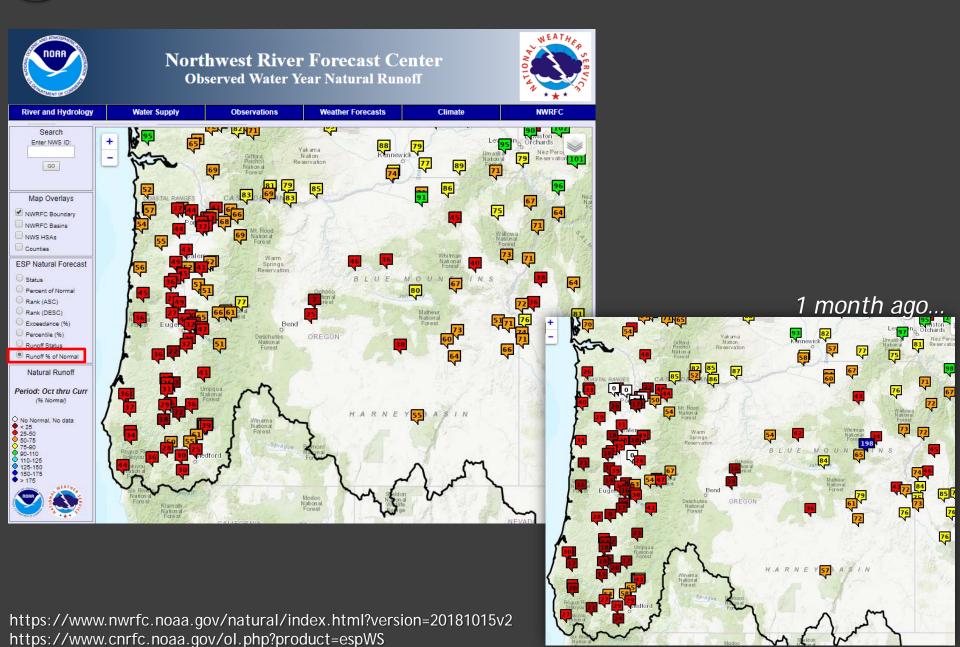


Outlook for March-April-May 2019





Observed WY19 Runoff thus far

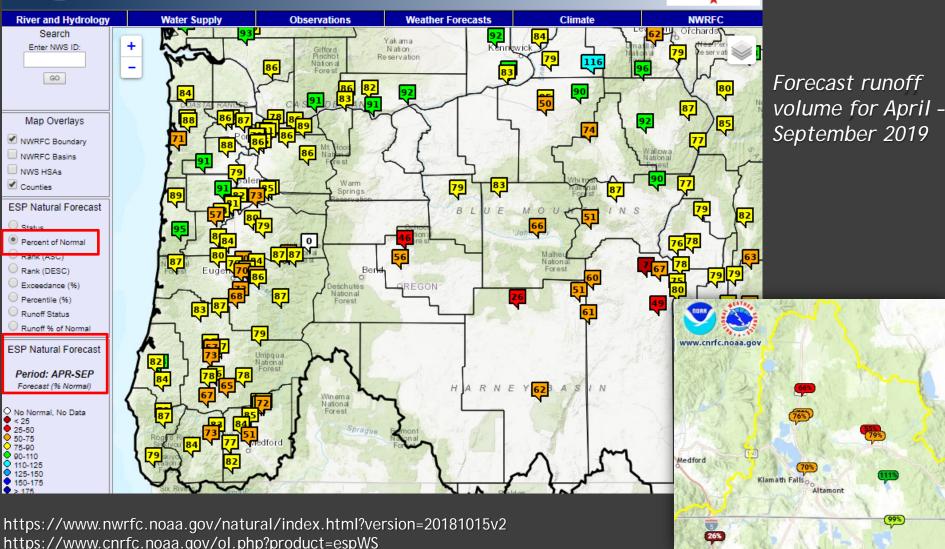




Seasonal Water Supply Forecasts

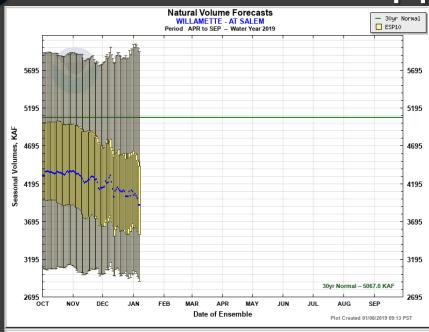


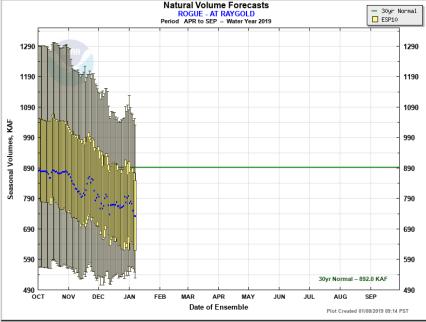
Northwest River Forecast Center ESP Natural Forecast

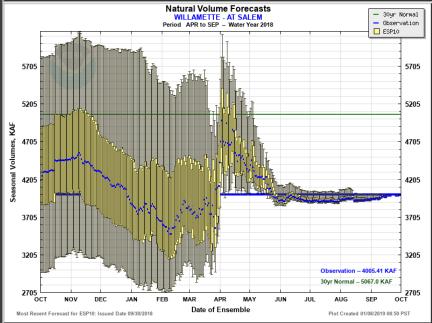


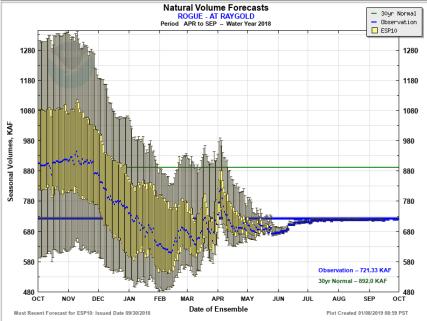


Natural Water Supply Forecasts (West)



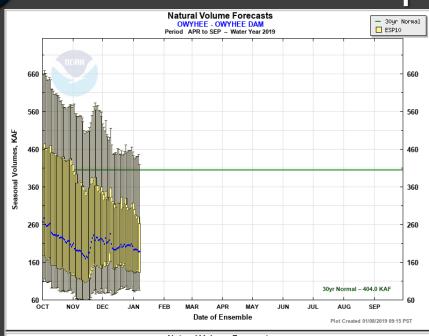


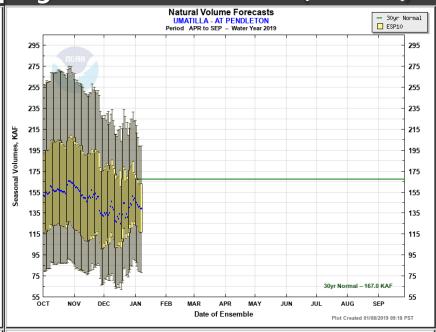


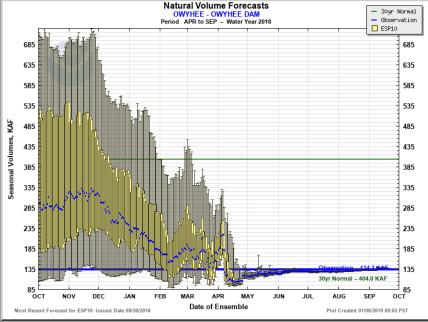


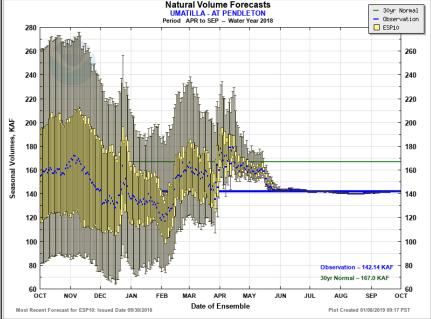


Natural Water Supply Forecasts (East)











Link to Northwest River Forecast Center ESP Natural Forecasts

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

Live Water Supply Briefings

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

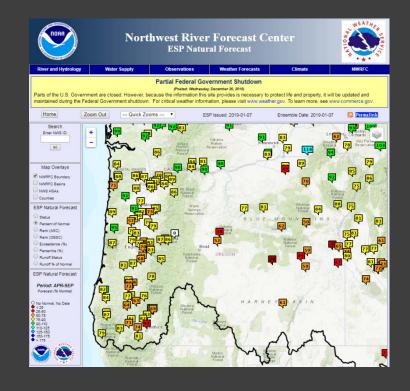
NWRFC Water Supply Forecast Monthly Briefing Schedule

Monthly water supply briefings will be held January through late spring on the first Thursday of each month. Please refer to the schedule below for briefing dates and times. The briefings are composed of two parts, a telephone conference call and a web-based presentation. The conference call can be joined by calling the number provided below prior to start of the briefing. Enter the provided access code when prompted. To view the web-based presentations, you will need to register prior to each briefing. The briefing slides will be available from the NWRFC presentations page soon after the briefing.

	2019 Schedule for Live Water Supply Briefings								
Jan	Feb	Mar	Apr	May	June				
3	7	7 4		2	6				
All pi	All presentations held at 10:00am PDT/PST, unless noted otherwise								
	Click here for Registration Information								

Telephone Conference Call Number (same for each month's brief): (415) 655-0060
Pass Code: 217-076-304

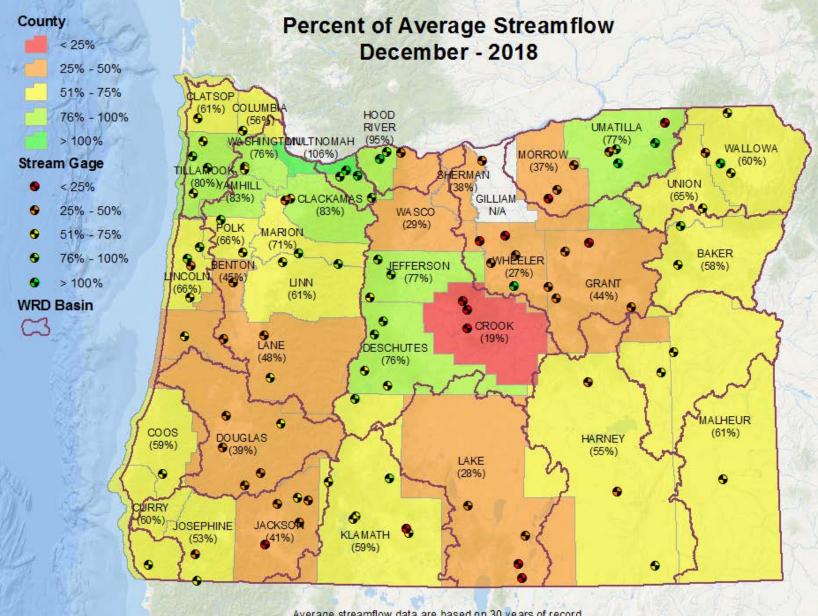
Presentation Archive Download Link



Water Supply Conditions Report Water Supply Availability Committee





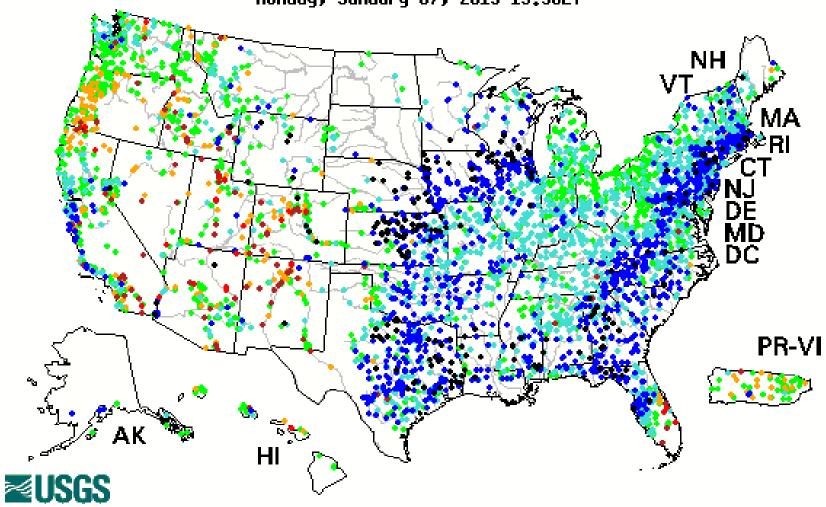


Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

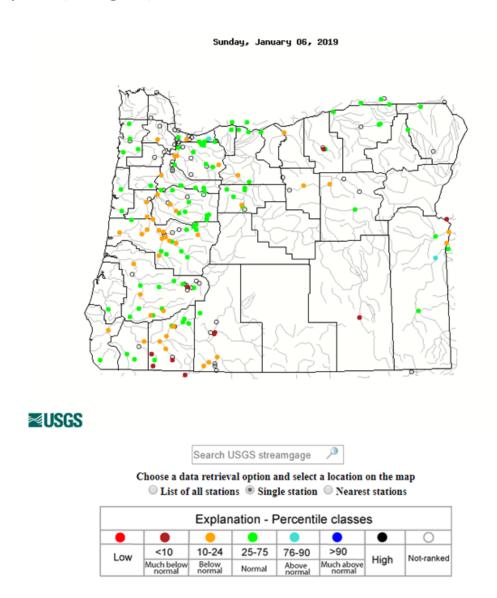


	400			
	Water Year % of	% of average	% of average	# of
Region	average through	% of average	for 01/05/2019	data
	December, 2019	for December	TOP 01/05/2019	points
West Side	51%	65%	42%	44
East Side	56%	53%	54%	42
State	53%	59%	47%	86

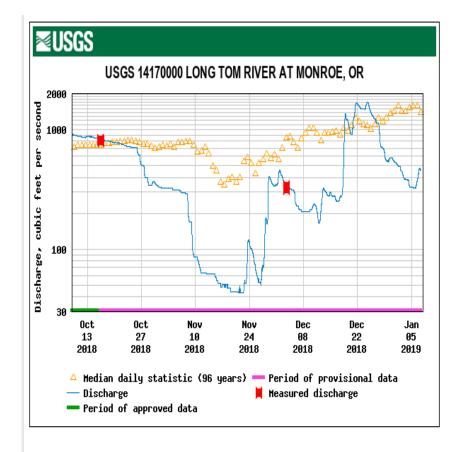
Monday, January 07, 2019 15:30ET

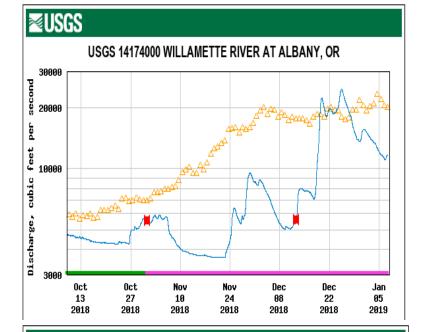


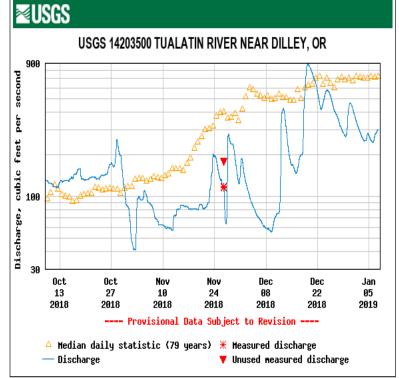
Map of 28-day average streamflow compared to historical streamflow for the day of the year (Oregon)



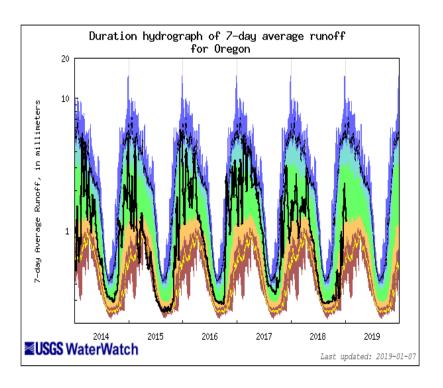
Willamette



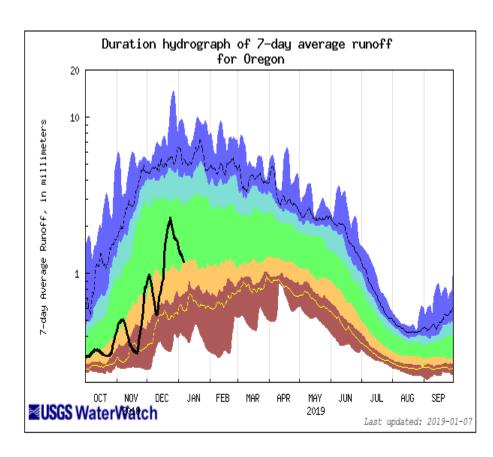




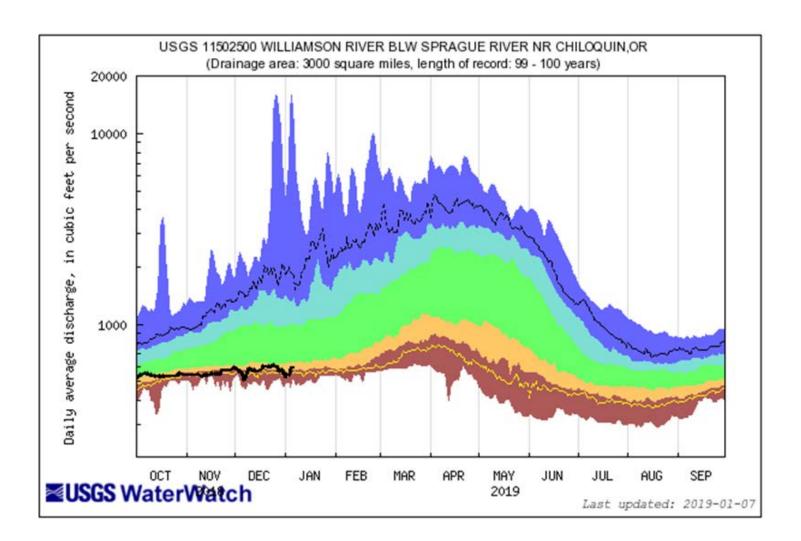
These are interesting Both are plots of the 7 day average for all USGS Oregon sites



	Е	xplana	tion - Pe	rcentile	classes	3	
							_
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	

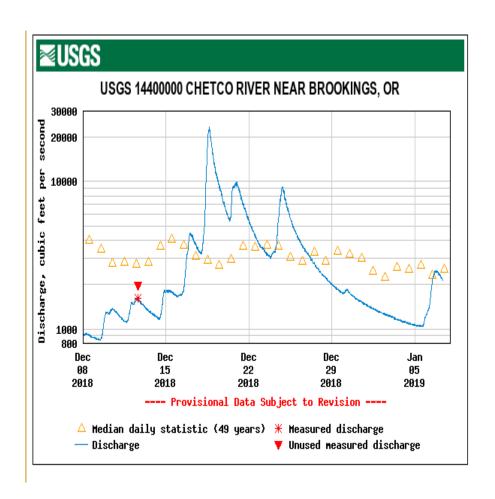


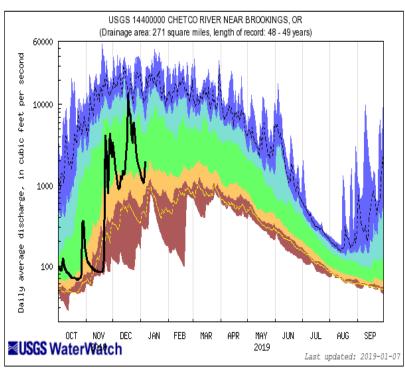
	Е	xplana	tion - Pe	rcentile	classes	S	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below	Normal	Below normal	Normal	Above normal	Much above normal		Kunon



	E	xplana	tion - Pe	ercentile	classes	S	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below	Normal	Below normal	Normal	Above normal	Mucha	bove normal	110%

Peaks are pretty unimpressive this water year.

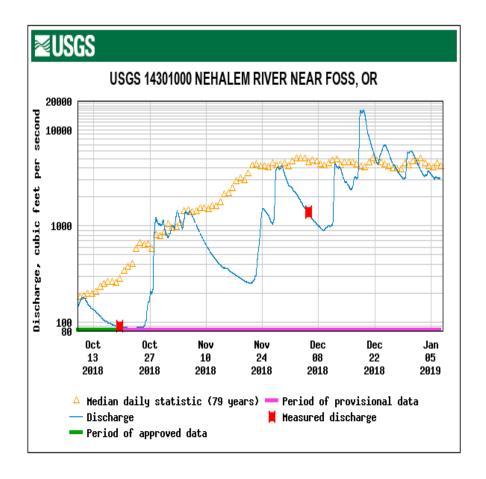


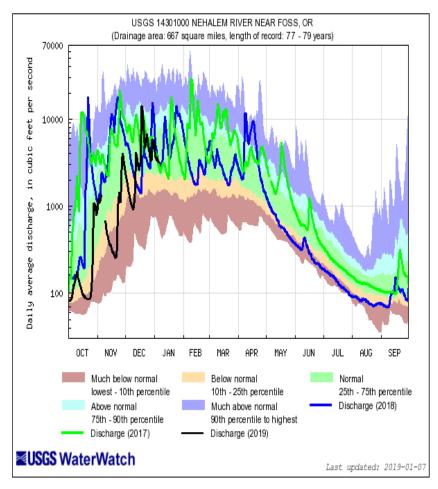


	Е	xplana	tion - Pe	rcentile	classes	3	
					•		_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below	Normal	Below normal	Normal	Above normal	Much a	bove normal	11011

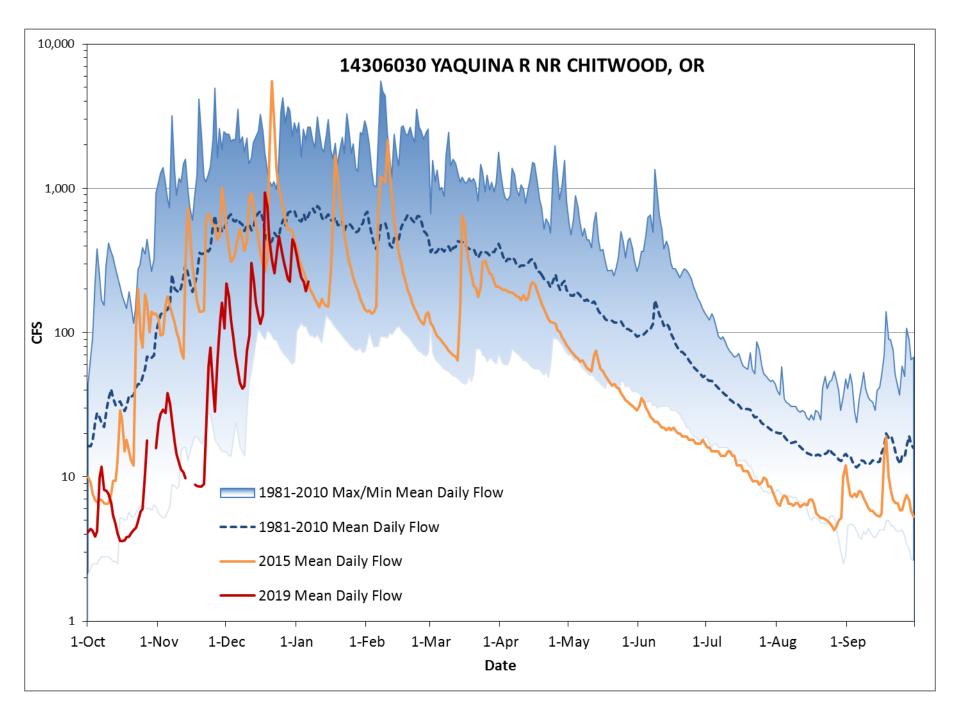
Second plot has 2017 & 2018 water years overlaid. Illustrates what a poor start we have had....maybe we will return to low flow fairly easily without a

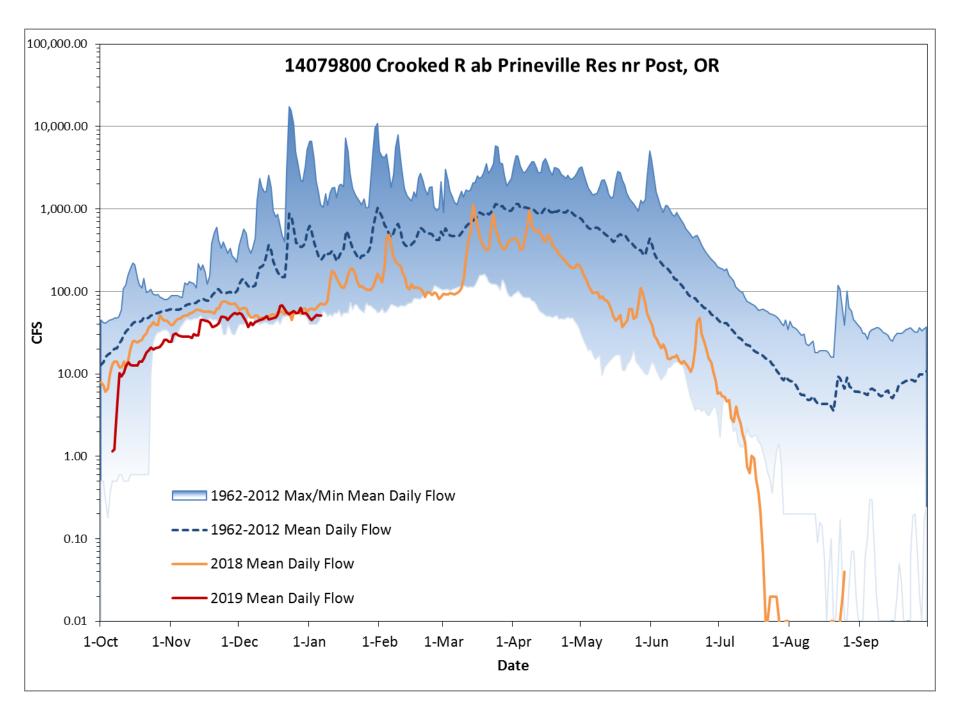
push of events in Jan/Feb

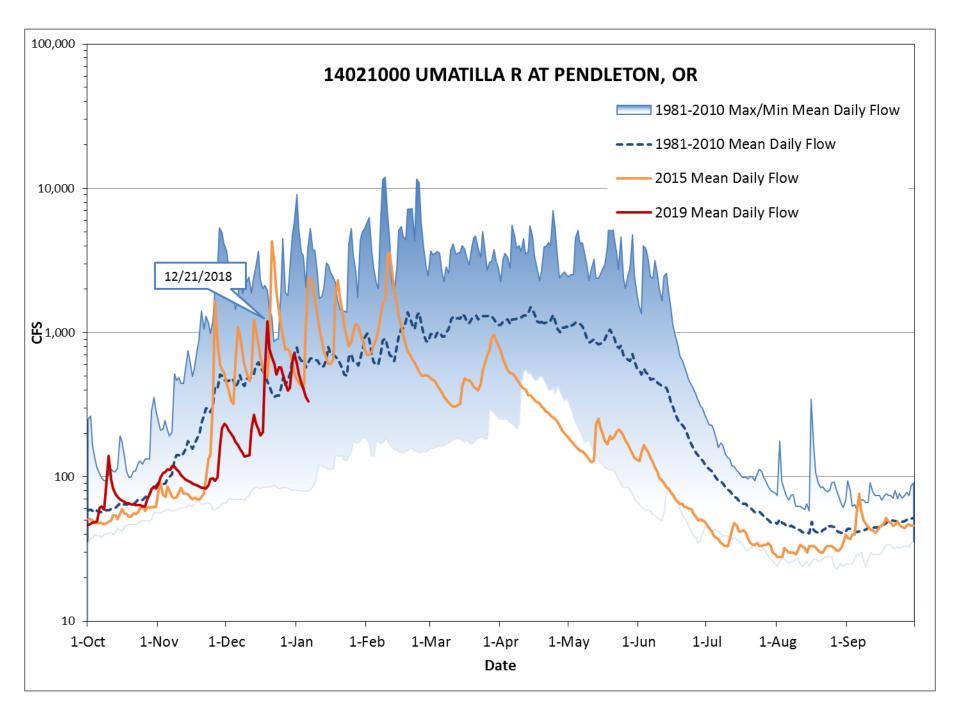


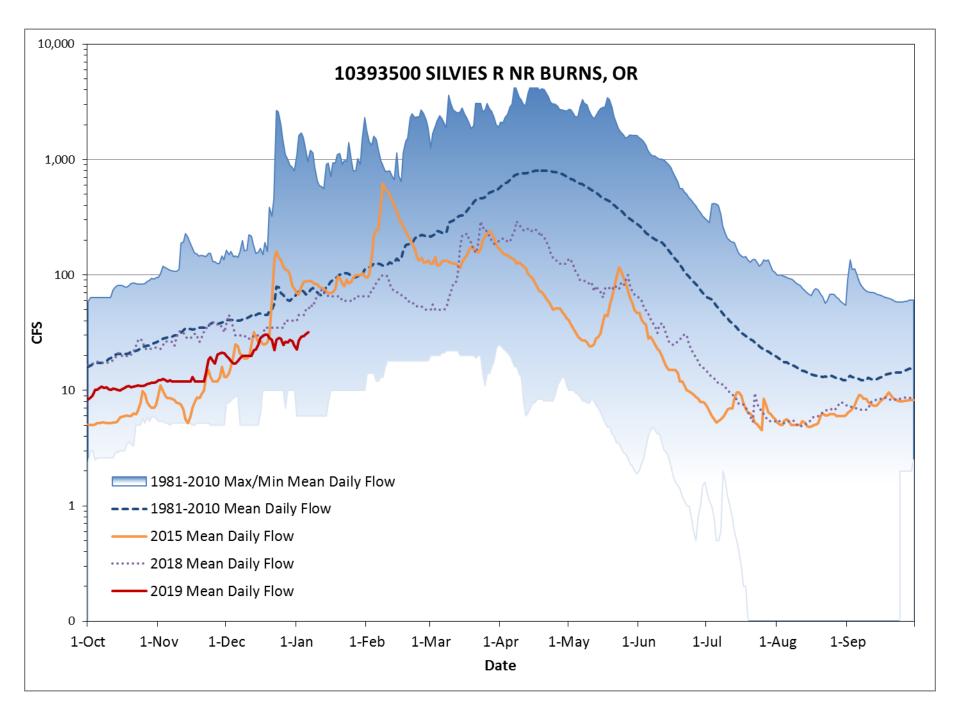


E	Explana	tion - Pe	rcentile	classes		
lowest- 10th percentile	10-24	25-75	76-90	90th percentile -highest	Flow	
Much below normal	Below normal	Normal	Above normal	Much above normal		











Thank you.

RECLAMATION

Managing Water in the West

Oregon Water Supply Availability Committee Meeting

Pacific Northwest Regional Office River and Reservoir Operations January 8, 2019

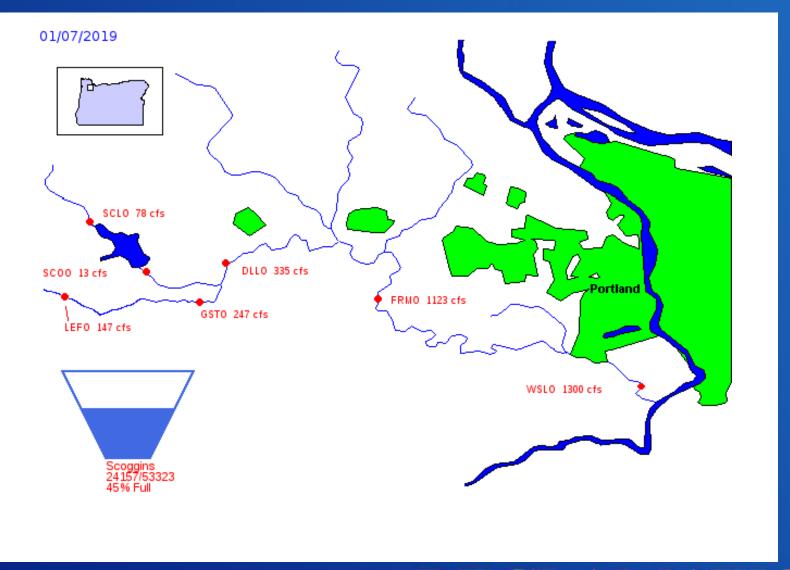




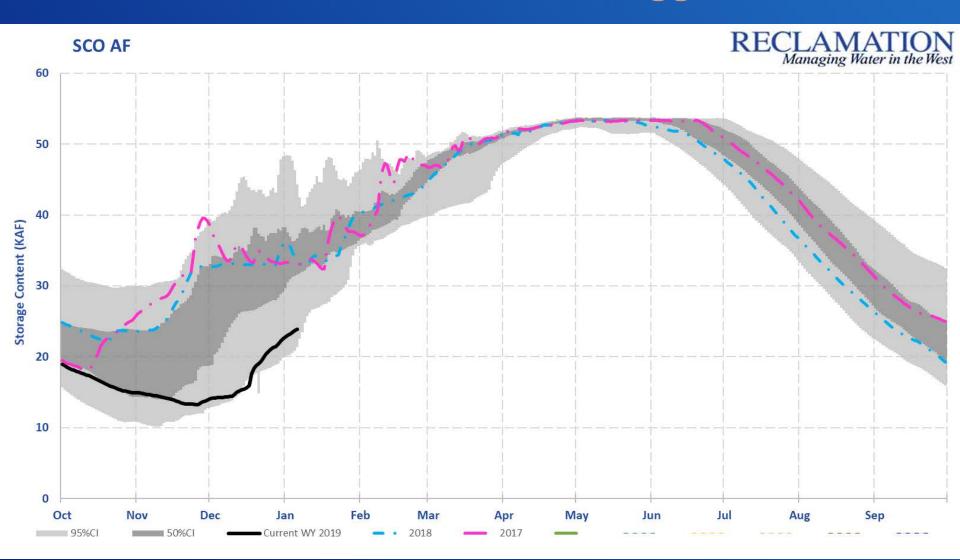
U.S. Department of the Interior Bureau of Reclamation

Current Conditions

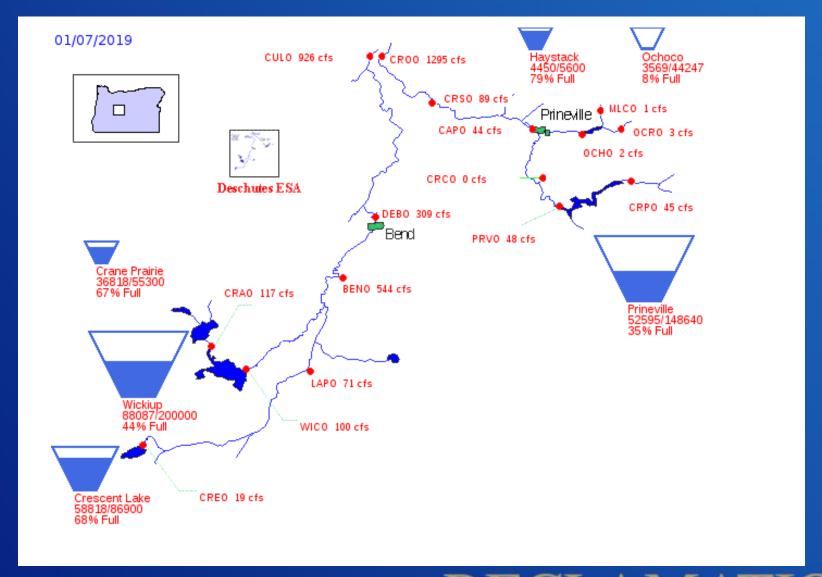
Tualatin River Basin



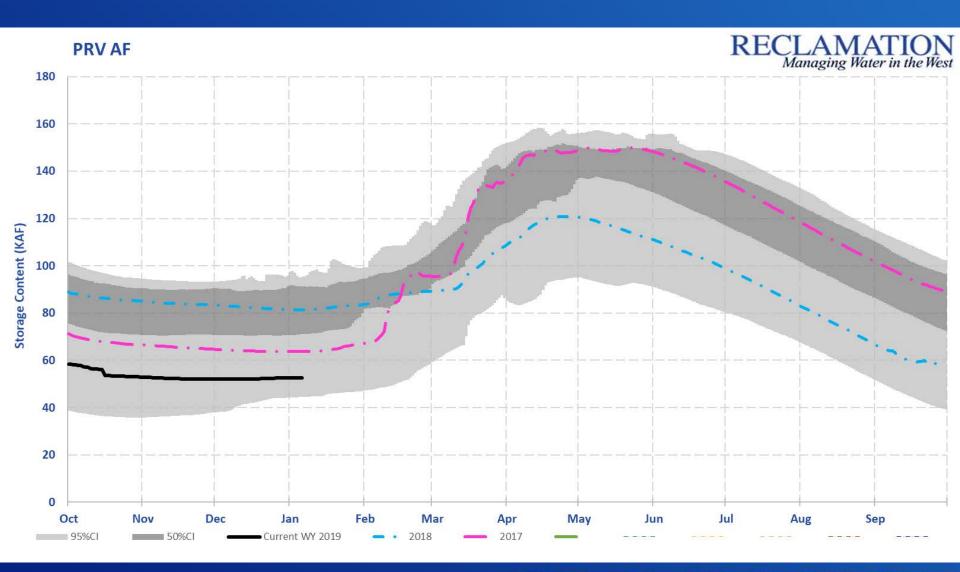
Tualatin River Basin: Scoggins



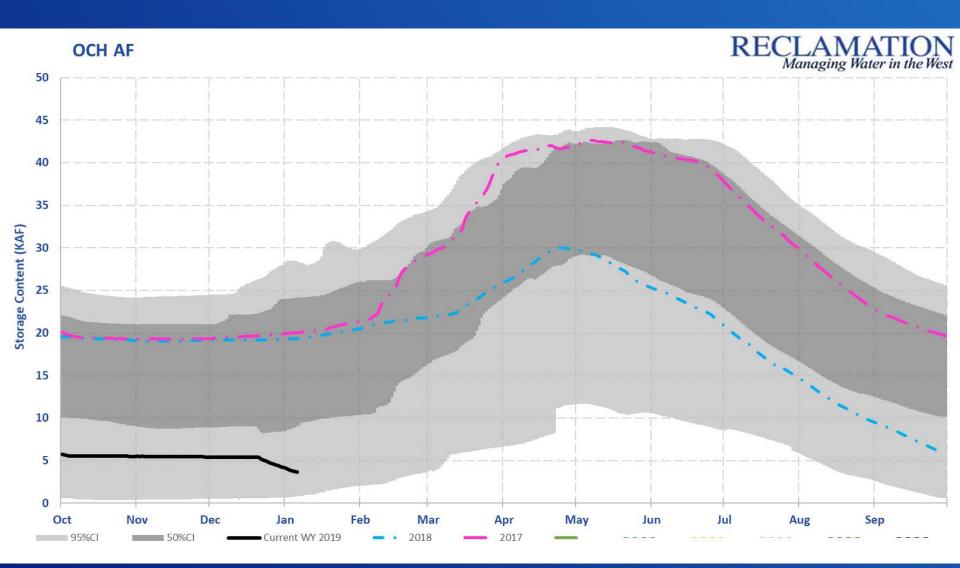
Deschutes River Basin



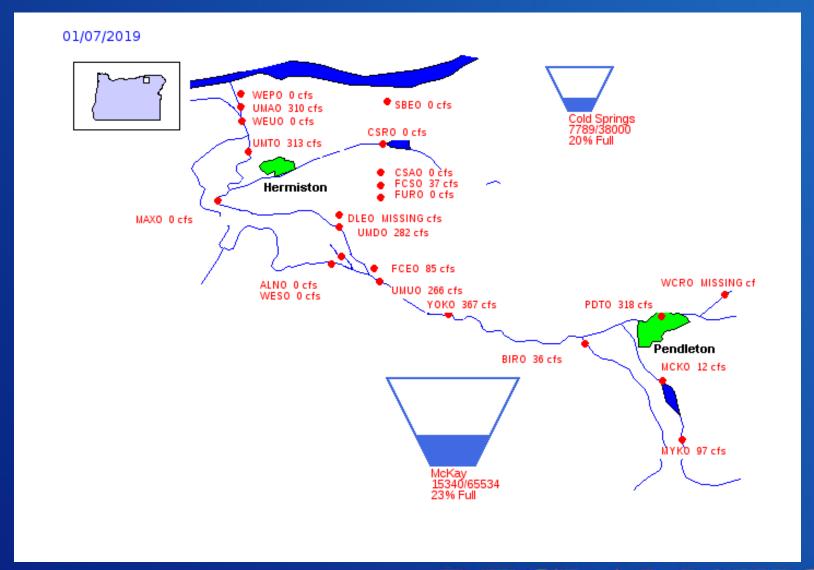
Deschutes River Basin: Prineville



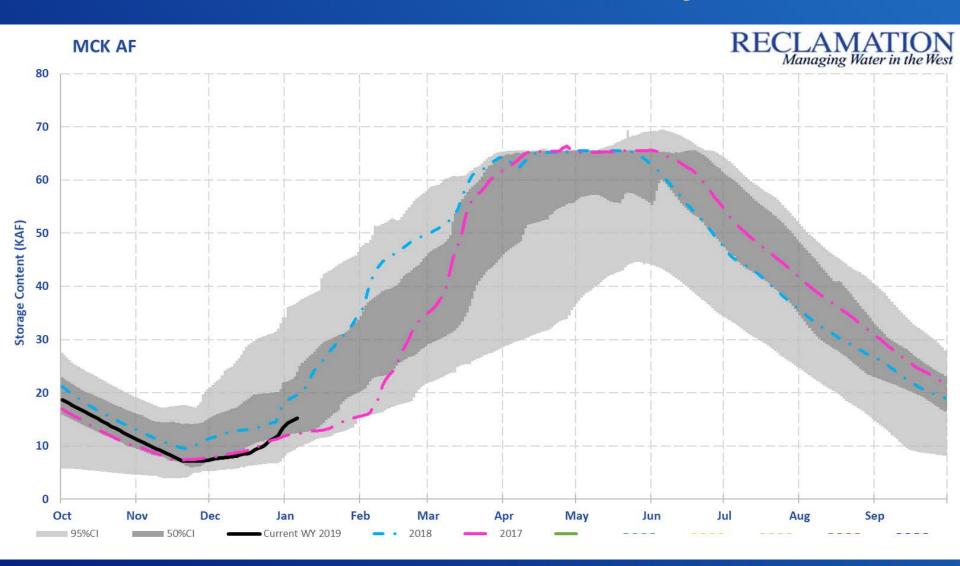
Deschutes River Basin: Ochoco



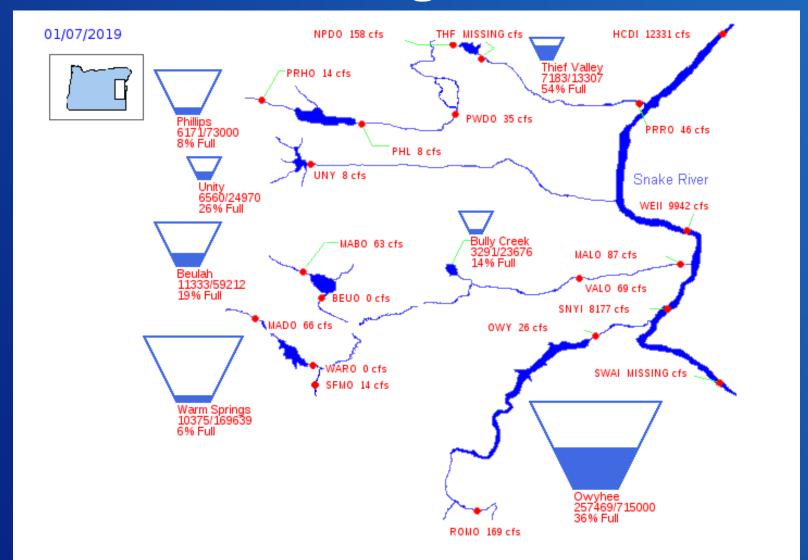
Umatilla River Basin



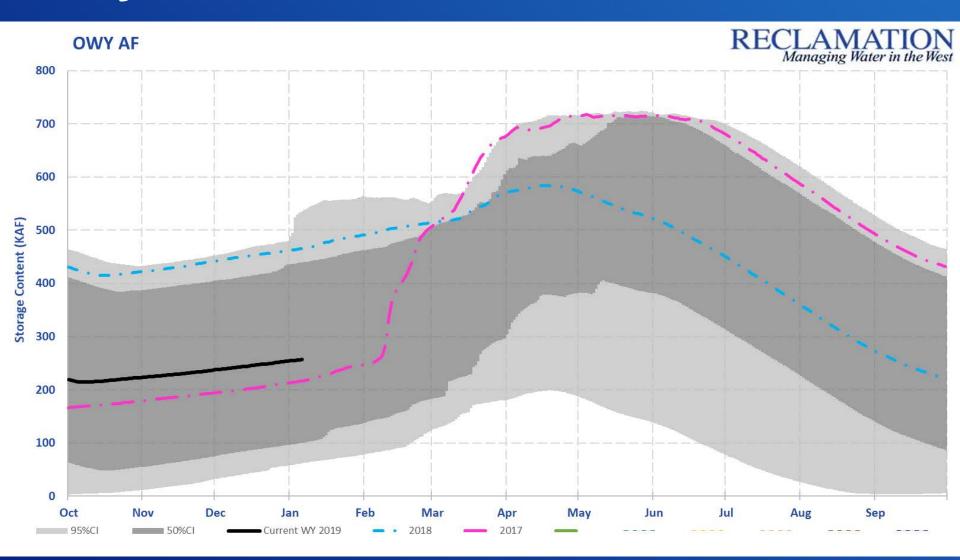
Umatilla River Basin: McKay



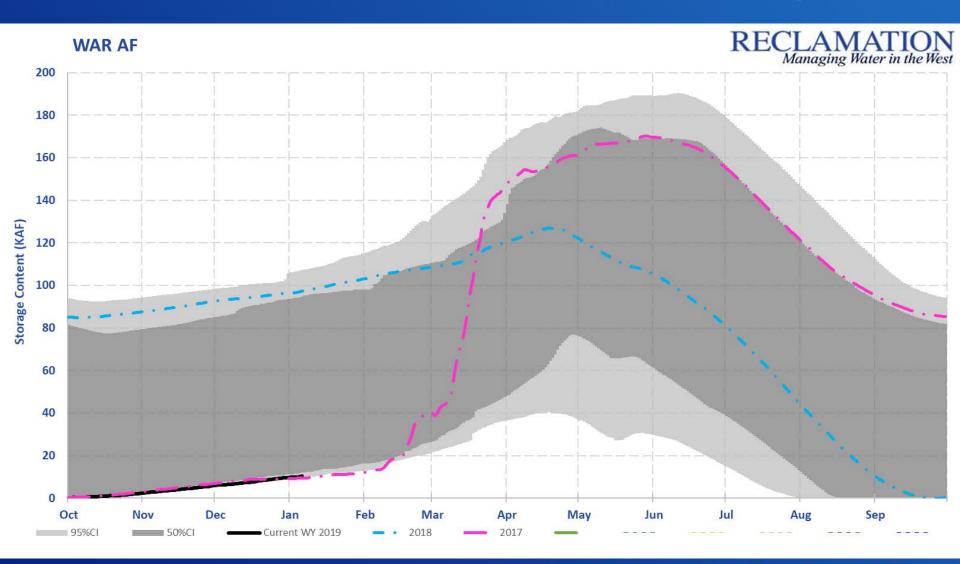
Southeastern Oregon



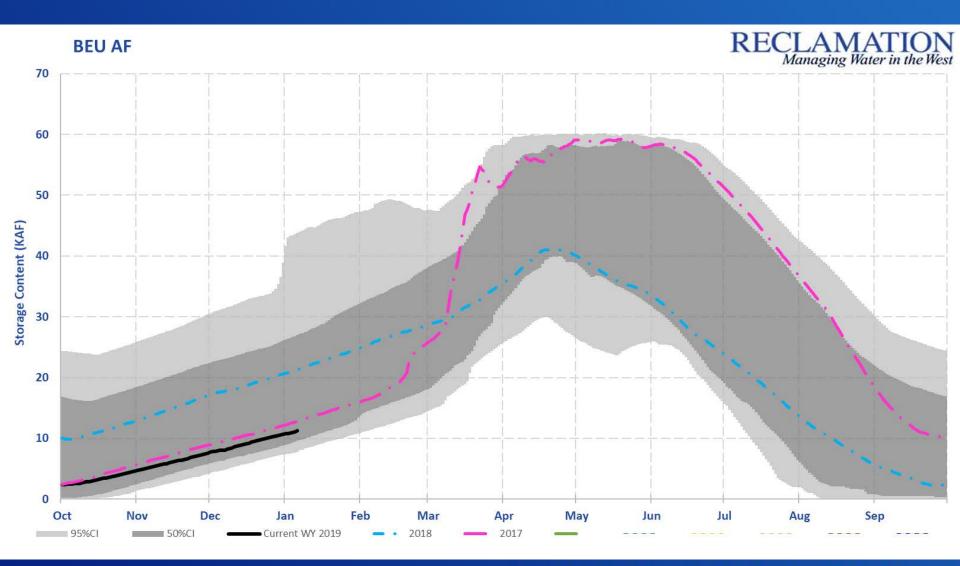
Owyhee River Basin: Owyhee



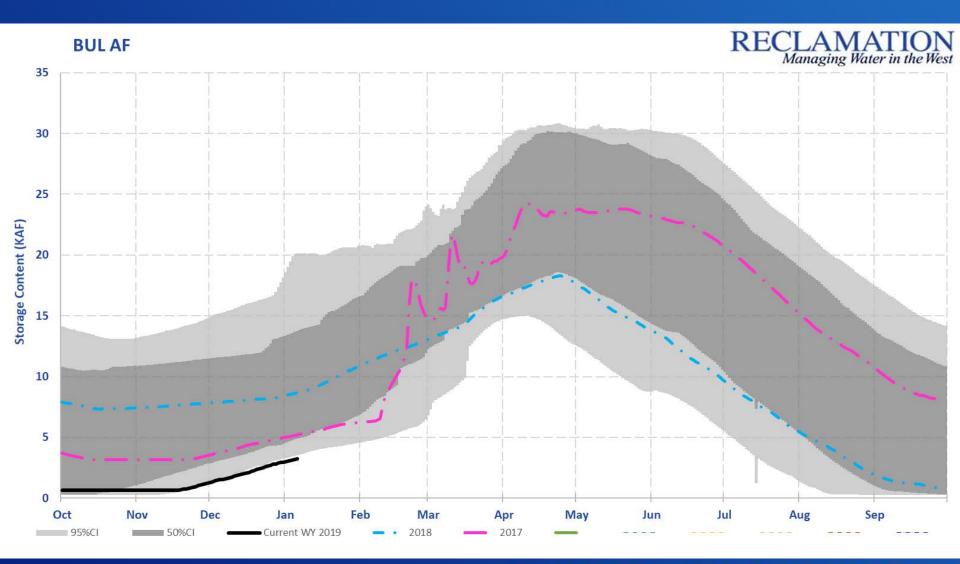
Malheur River Basin: Warm Springs



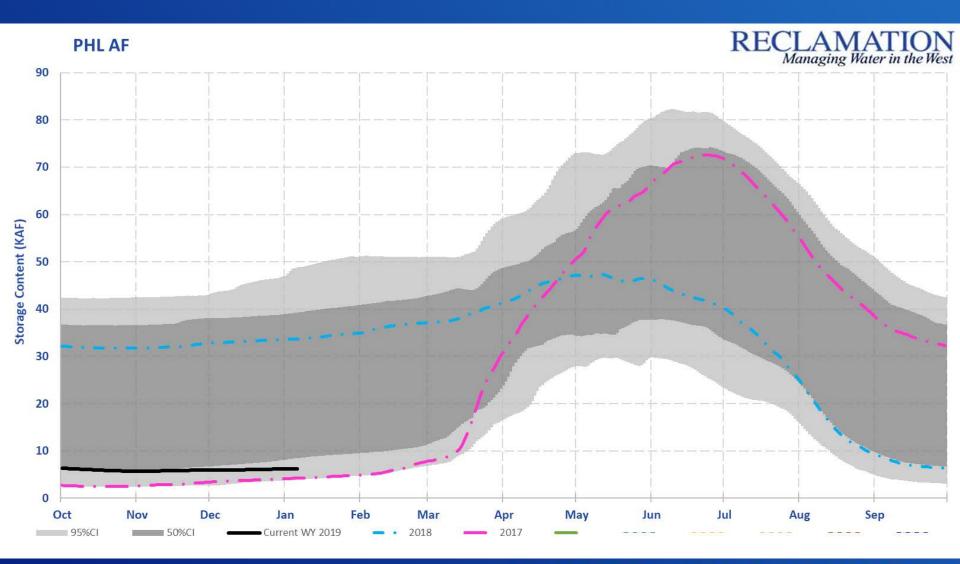
Malheur River Basin: Beulah



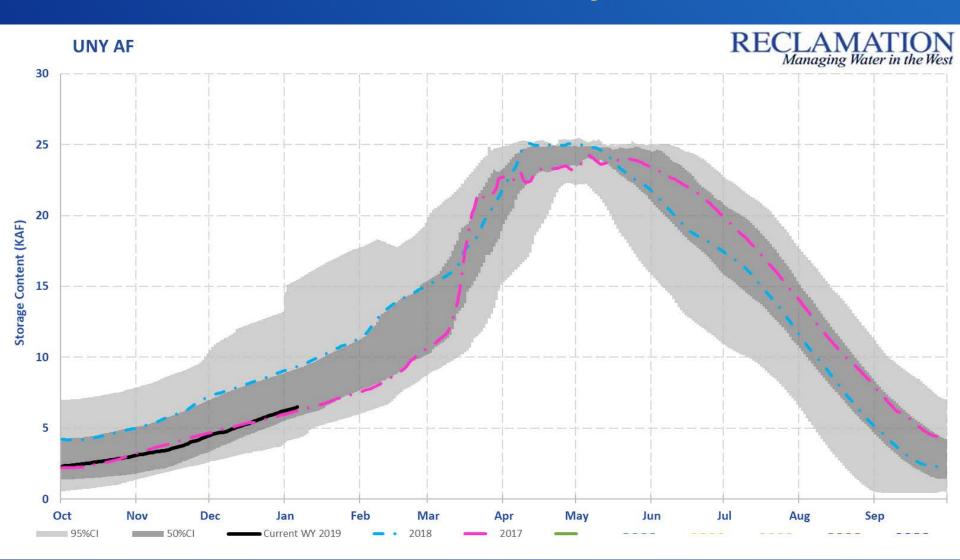
Malheur River Basin: Bully Creek



Powder River Basin: Phillips



Burnt River Basin: Unity



Reservoir Inflow Forecasts

		1981-2010	USBR		NWRFC		Available
Forecast	Forecast	Average	Forecast		Forecast		Space
Reservoir	Period	(KAF)	(KAF)	% Avg	(KAF)	% Avg	(KAF)
Beulah	Jan-Jun	86	66	77%	44	51%	49
Bully Creek	Jan-Jun	38	26	69%	6	16%	28
McKay	Jan-Jun	69	75	109%	59	86%	50
Ochoco	Jan-Jun	46	32	69%	24	52%	38
Owyhee	Jan-Jun	655	525	80%	322	49%	450
Prineville	Jan-Aug	221	165	75%	101	46%	100
Unity	Jan-Jul	55	42	77%	26	48%	18
Warm Springs	Jan-Jun	137	105	77%	72	52%	170

Forecasts dated 01-JAN Space as of 07-JAN



Questions



RECLAMATION