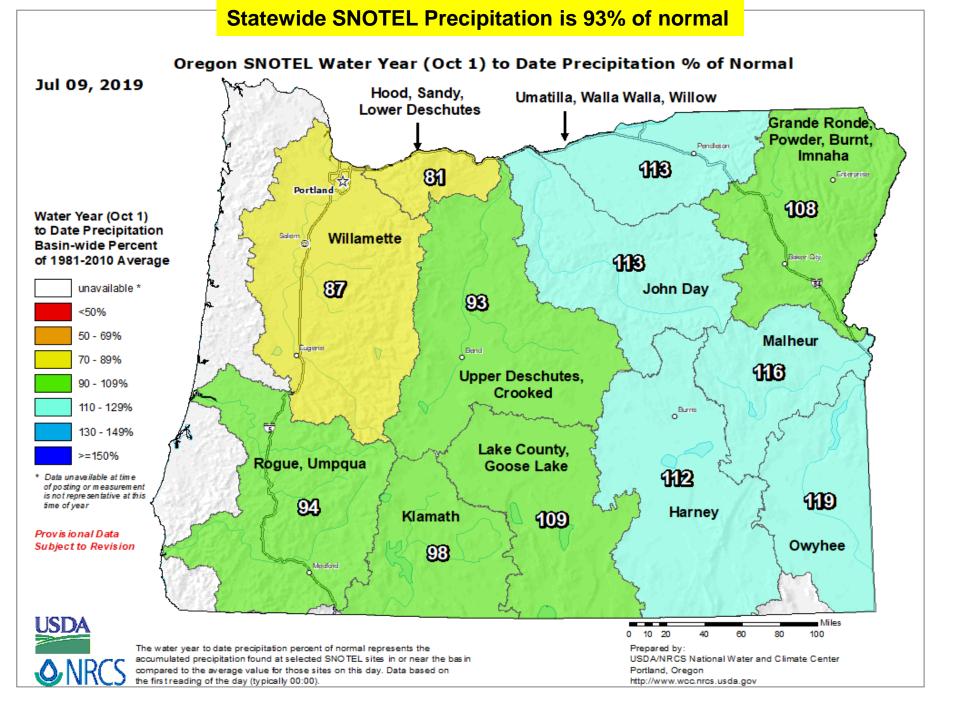
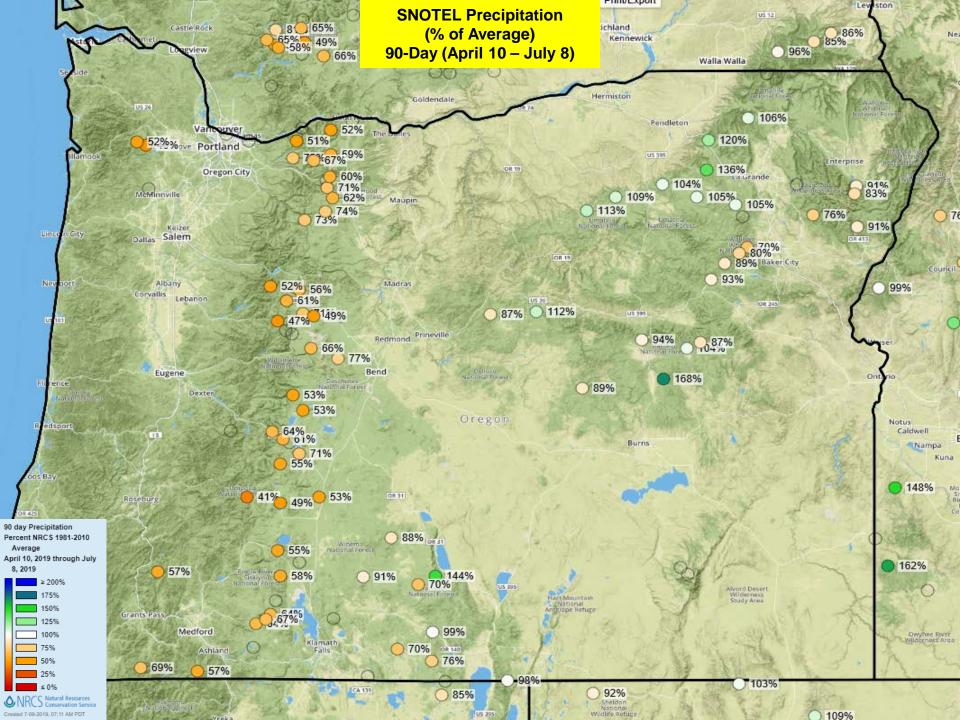
Oregon Water Supply Availability Committee July 9, 2019

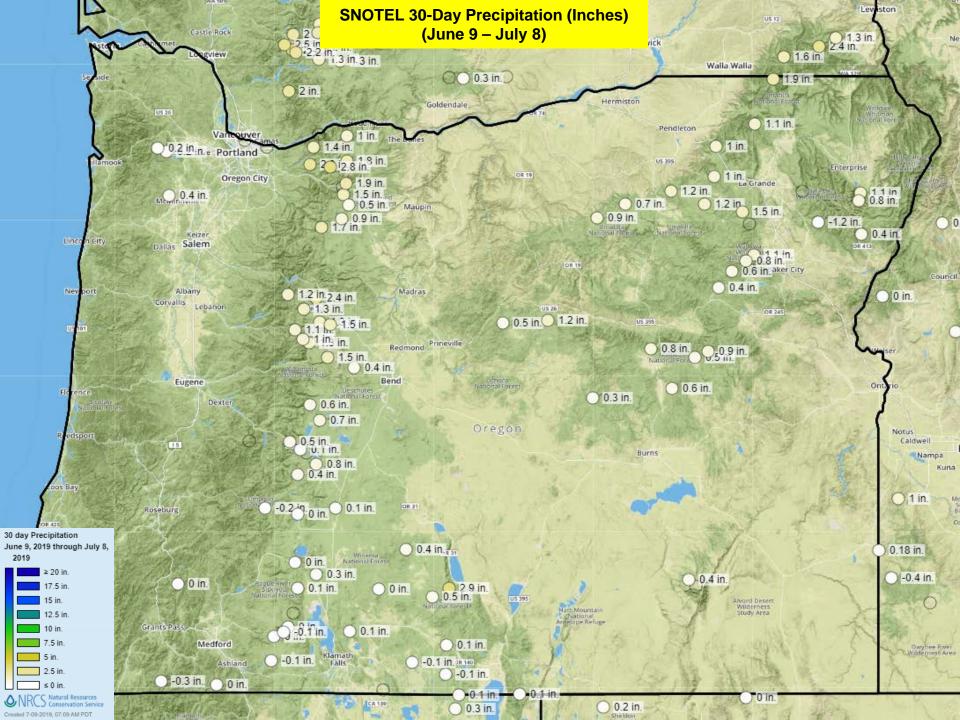
1

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

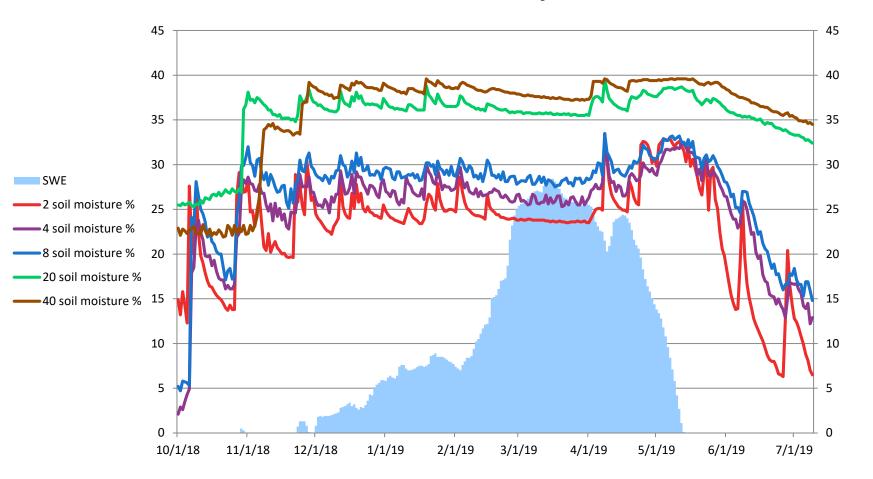
2019 I W





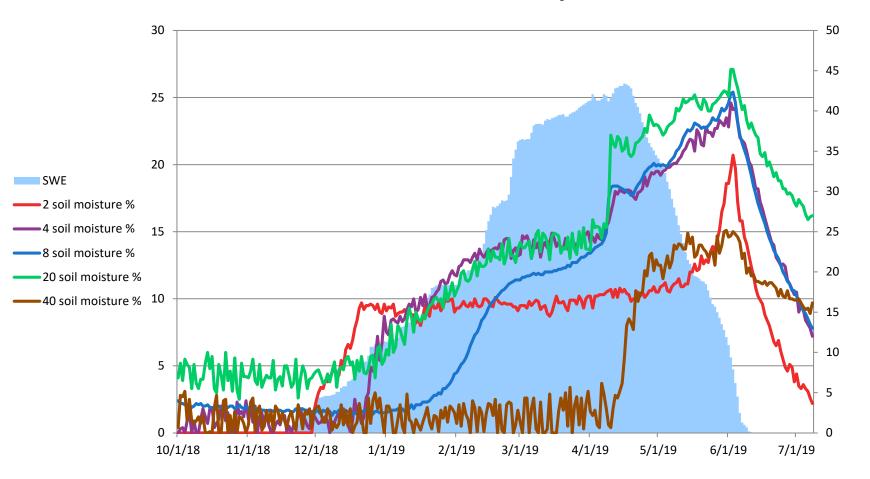


Holland Meadows SNOTEL Soil Moisture WY2019 Elevation = 4930' Lane County



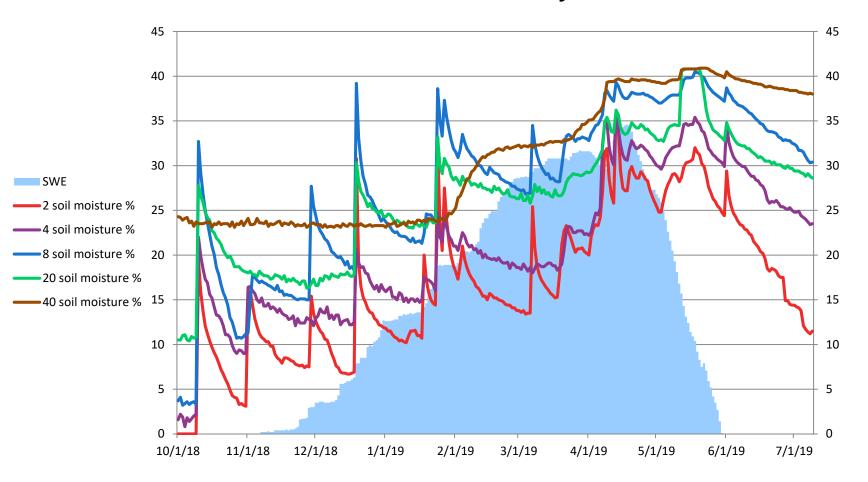
Provisional data –Subject to future edits

Annie Springs SNOTEL Soil Moisture WY2019 Elevation = 6010' Klamath County



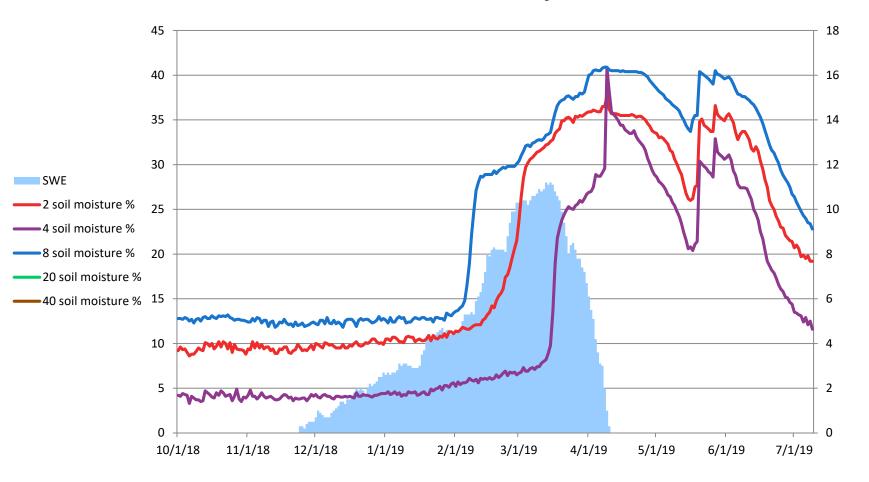
Provisional data – Subject to future edits

High Ridge SNOTEL Soil Moisture WY2019 Elevation = 4920' Umatilla County



Provisional data – Subject to future edits

Rock Springs SNOTEL Soil Moisture WY2019 Elevation = 5290' Grant County



Provisional data – Subject to future edits

## 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 Committee July 9, 2019

1

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

2019 I W

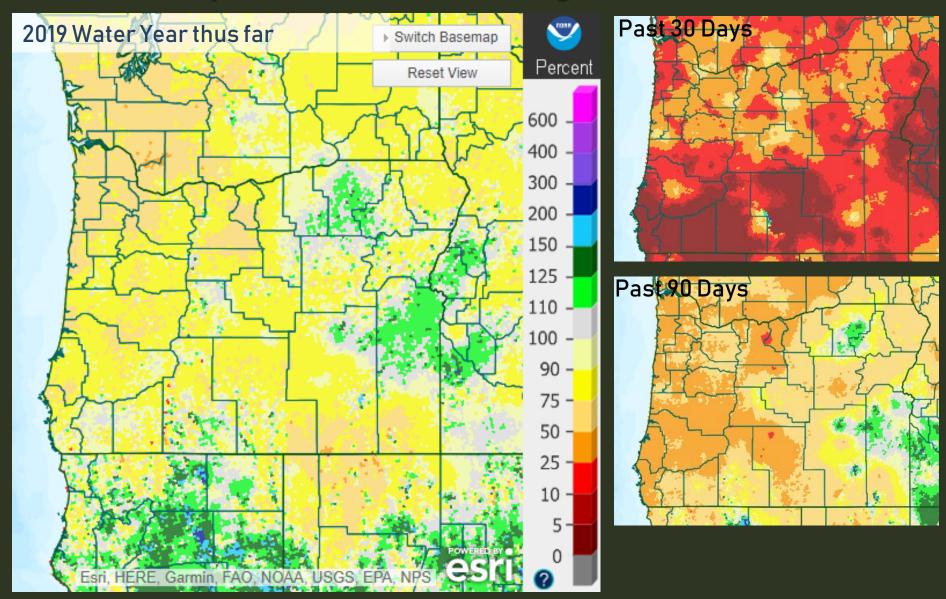


## Oregon Water Supply Availability

July 9, 2019 National Weather Service Update

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

## Precipitation % of Average



### Precipitation Data as of July 8, 2019

NOAA

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



# **Recent Temperatures**

2.5

2.0

1.5

1.0 0.5

0.0

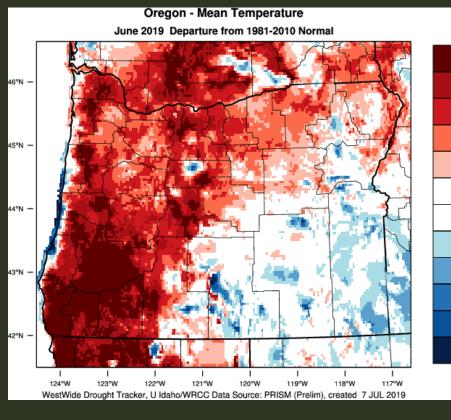
-0.5 -1.0

-1.5

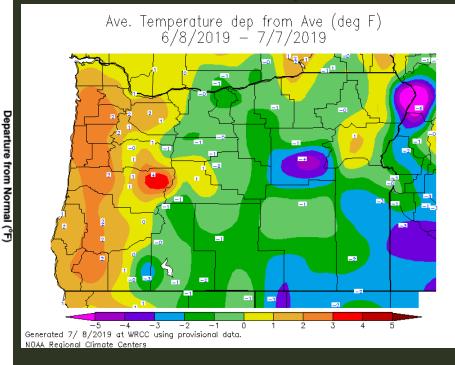
-2.0

-2.5

### June 2019

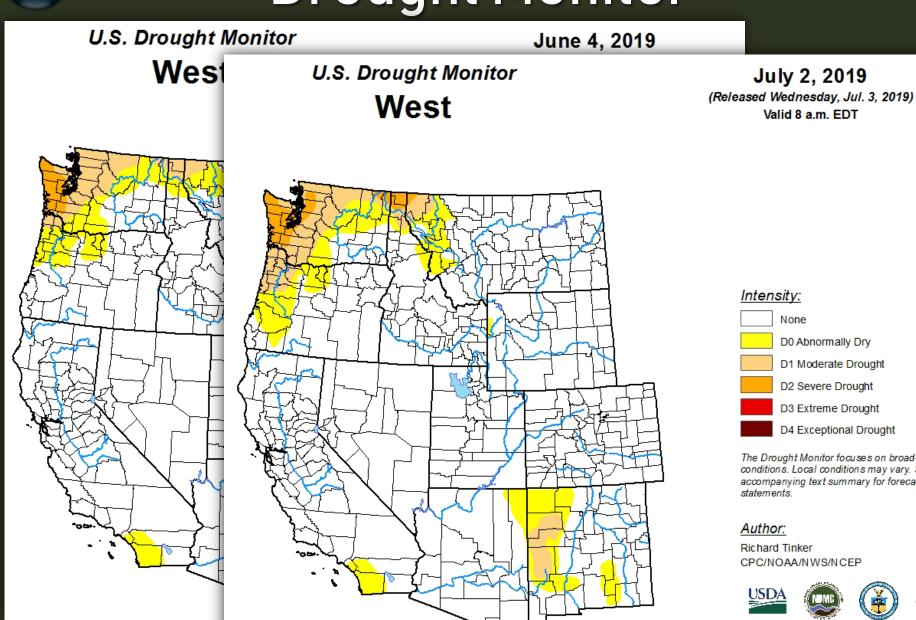


## Past 30 Days

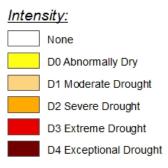


### https://wrcc.dri.edu/wwdt/current.php?folder=mdn1

# **Drought Monitor**



NOAA



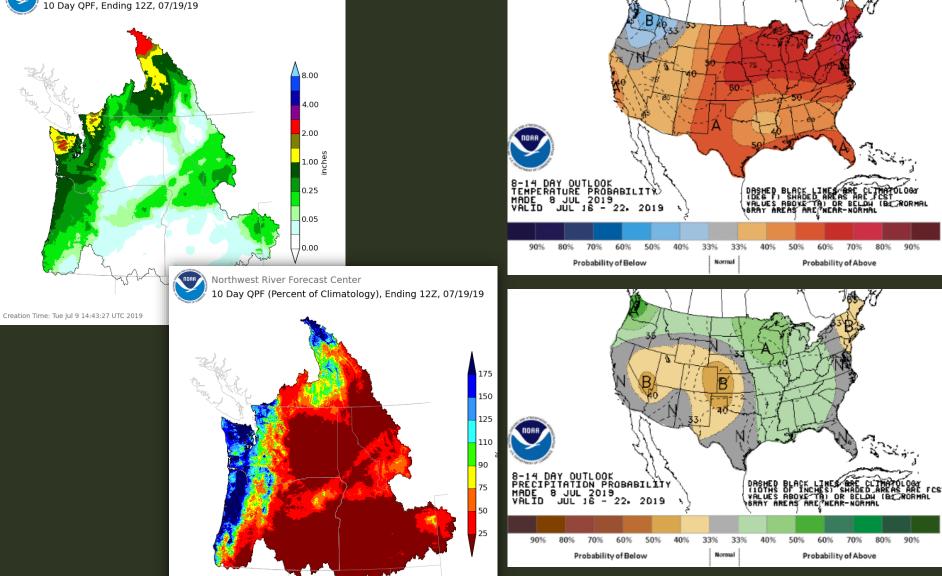
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast

Richard Tinker CPC/NOAA/NWS/NCEP



### droughtmonitor.unl.edu





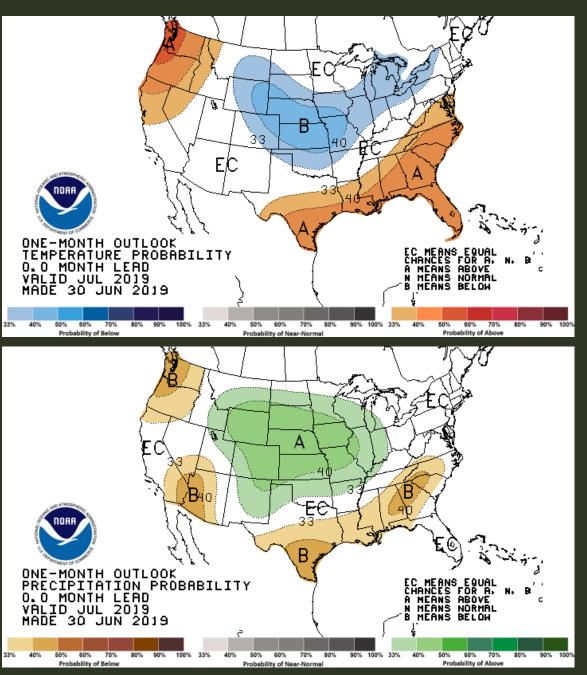
https://www.nwrfc.noaa.gov/water\_supply/wy\_summary/wy\_summary.php?tab=3

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

5



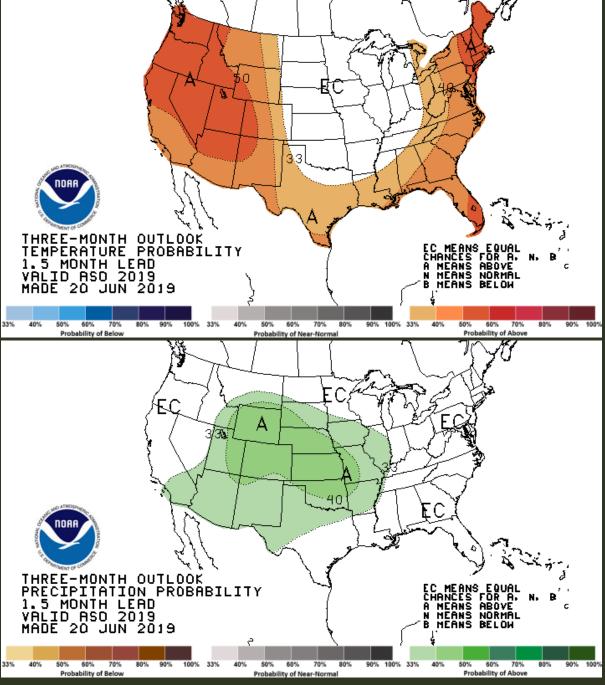
## July Outlook



https://www.cpc.ncep.noaa.gov/products/predictions/long\_range/lead14/



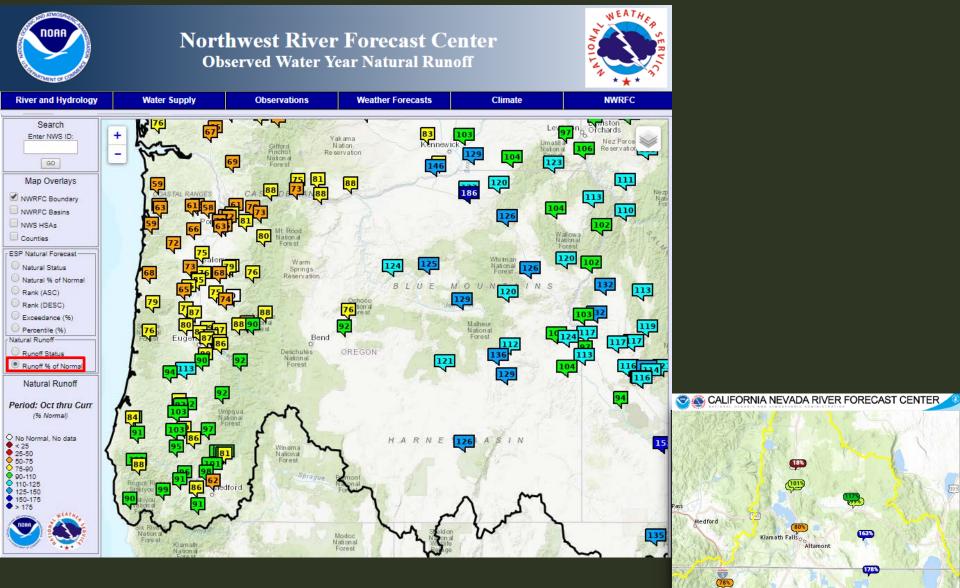
## Aug-Sep-Oct Outlook



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

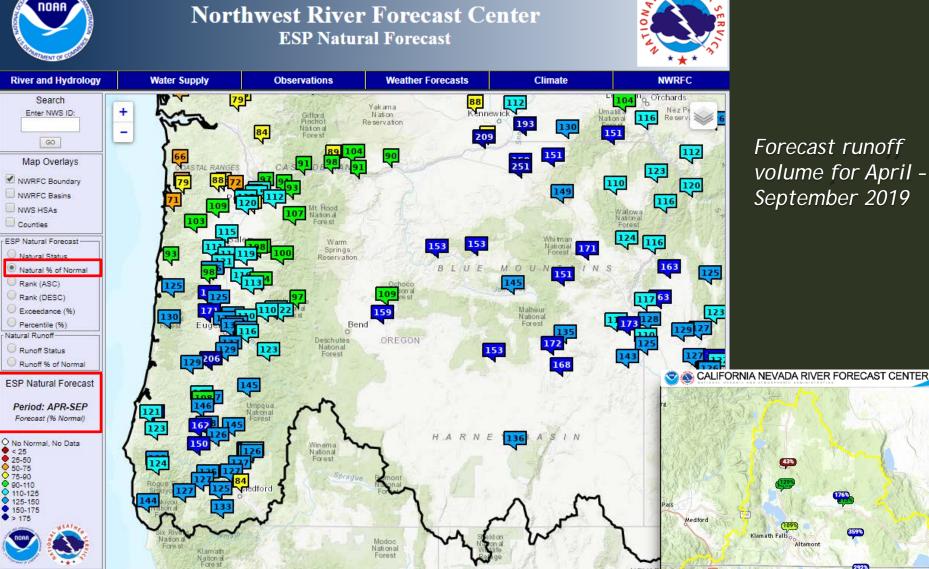


## Observed WY19 Runoff thus far



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

# Seasonal Water Supply Forecasts



Forecast runoff volume for April -September 2019

43%

Altamont

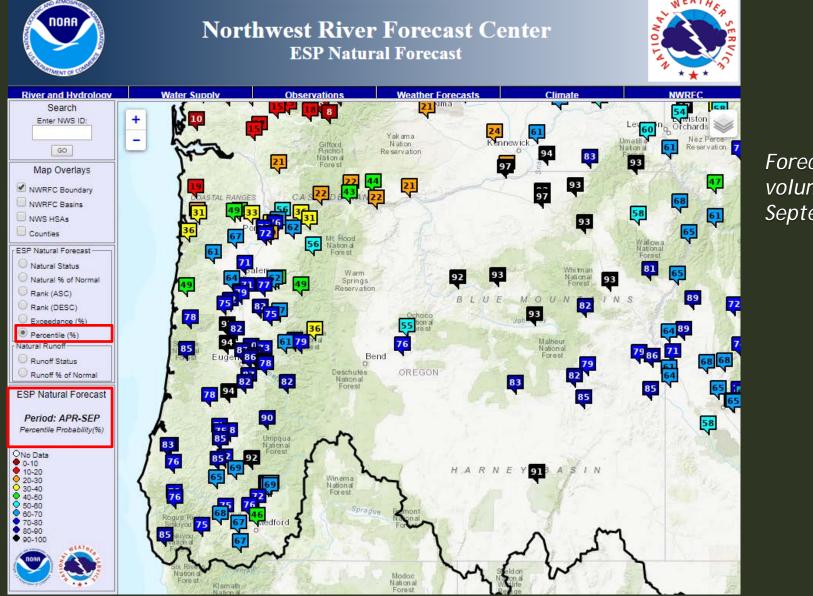
359%

292%

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

NOAA

## Ranked Seasonal Water Supply Forecasts

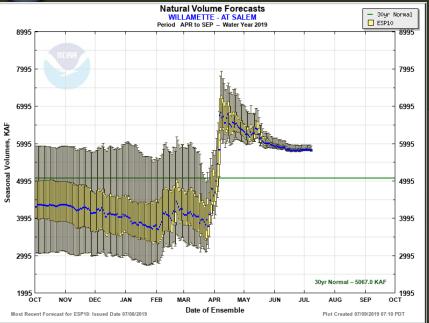


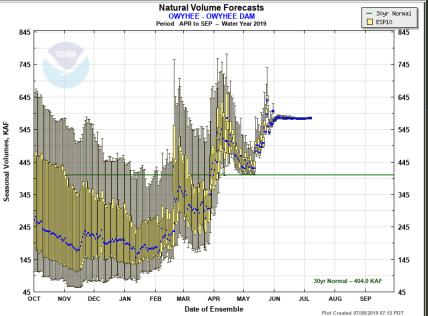
https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2 https://www.cnrfc.noaa.gov/ol.php?product=espWS

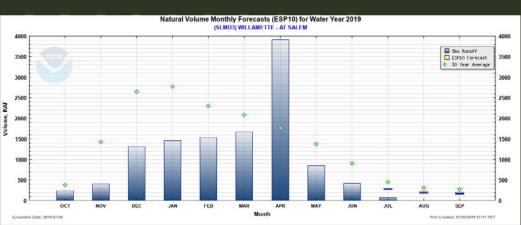
NOAA

Forecast runoff volume for April -September 2019

## Natural Water Supply Forecasts

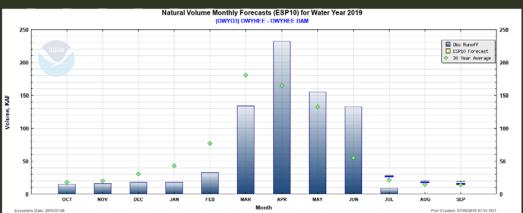




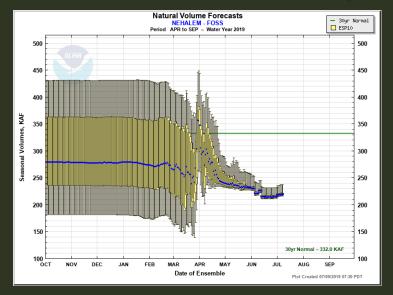


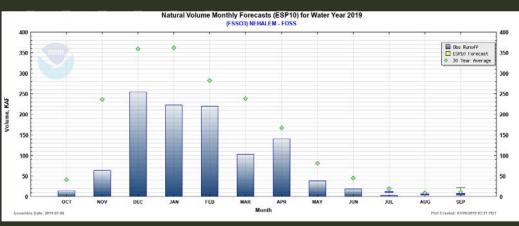
(West)

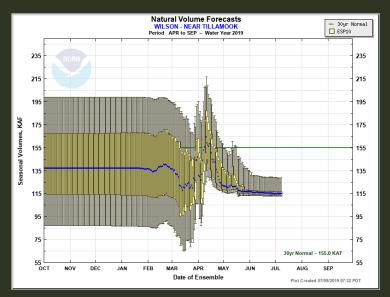
(East)

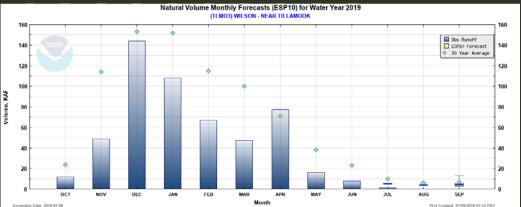


## Natural Water Supply Forecasts (North Coast)











## Link to Northwest River Forecast Center ESP Natural Forecasts

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

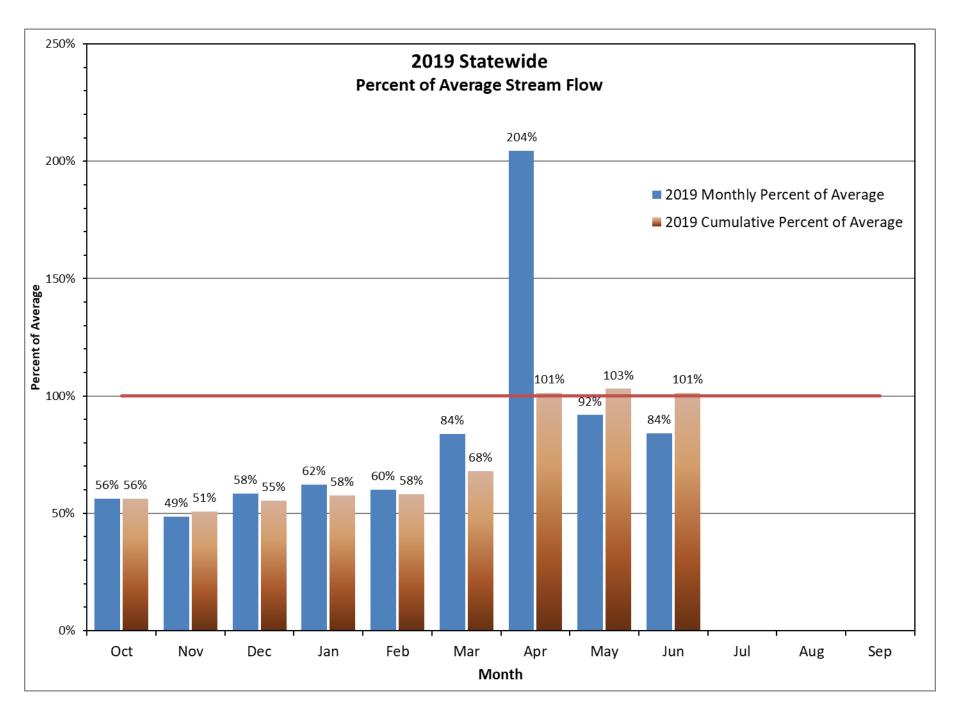
## Live Water Supply Briefings

Tentatively scheduled for the first Thursday of each month January though late spring.

Please refer to 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

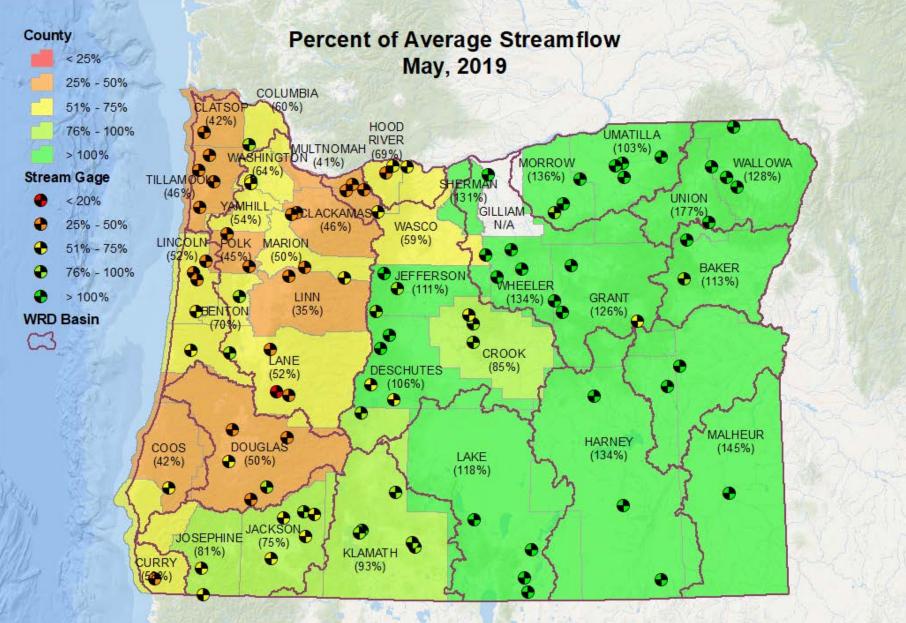


Ken Stahr Oregon Water Resources Department July 9, 2019

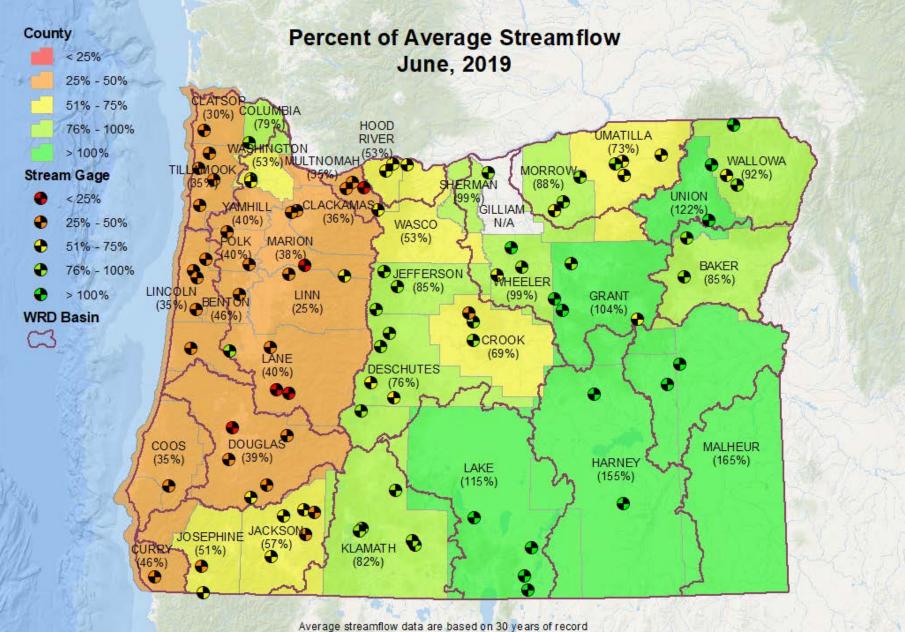




Basin	Water Year % of average thru June	% of average for June	% of average for 07/07/2019	# of data points
West Side	<b>78</b> %	<b>42%</b>	58%	44
East Side	116%	111%	91%	50
State	101%	84%	78%	94



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.



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





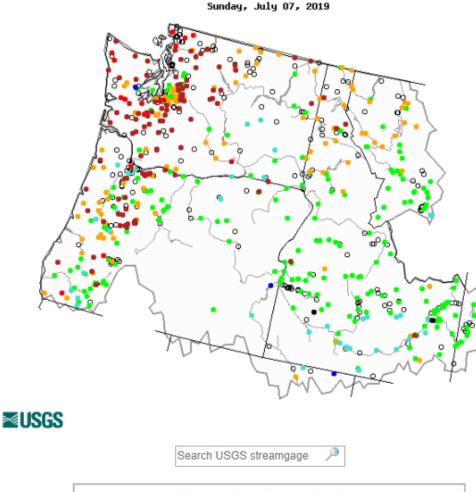
# Thank you.

# Oregon Water Supply Availability Meeting

uly 2019

science for a changing world

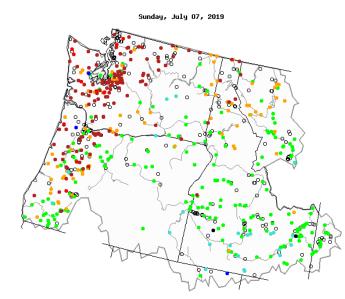
USGS Update on Surface Water Conditions Carrie Boudreau & Marc Stewart Oregon Water Science Center (photo by: Josh Price, USGS gage 14181500)



Explanation - Percentile classes 0 • 10-24 25-75 >90 <10 76-90 Low Not-ranked High Below Much above Much below Above Normal norma normal norma norma

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

(Below) Map of 28-day average streamflow compared to historical streamflow for the day of the year (Pacific Northwest)

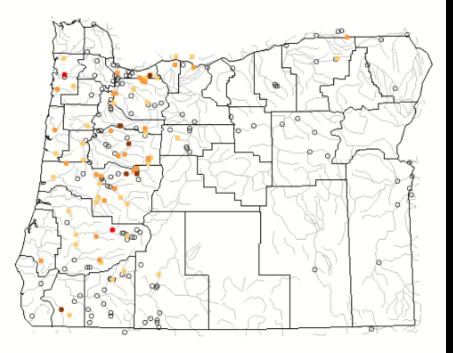


### ≊USGS

Search USGS streamgage 🛛 🔎







≊USGS

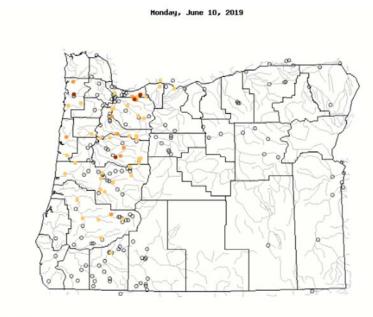
Search USGS streamgage

Choose a data retrieval option and select a location on the map List of all stations
 Single station
 Nearest stations

	Explanation	- Percentile c	lasses	
	•		•	0
New low	<=5	6-9	10-24	Not ranked
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	Not ranked

≈USGS

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



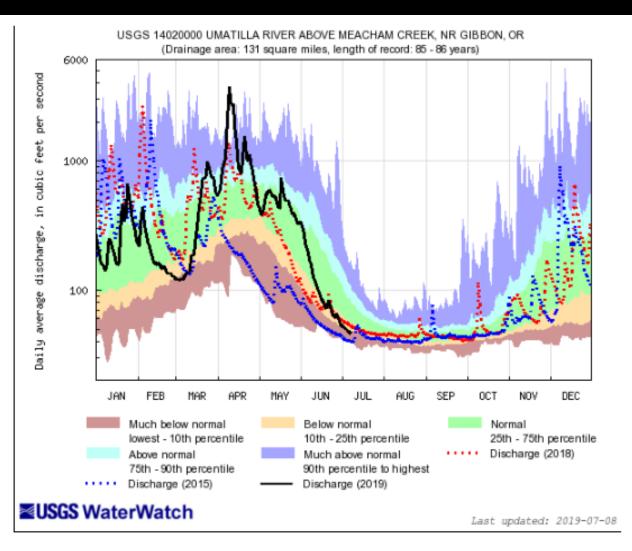
### **≥USGS**

Search USGS streamgage

Choose a data retrieval option and select a location on the map O List of all stations 
Single station O Nearest stations

	Explanation	n - Percentile cl	asses	
•	۲		•	0
New low	<=5	6-9	10-24	
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	Not ranked

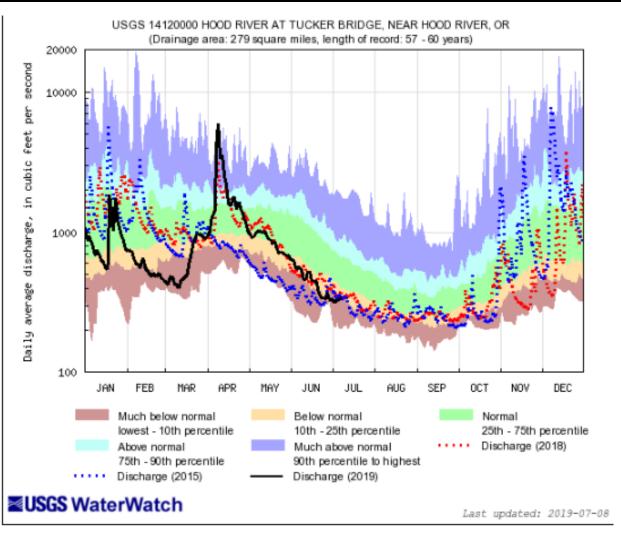
## 14020000 Umatilla R abv Meacham Ck





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	

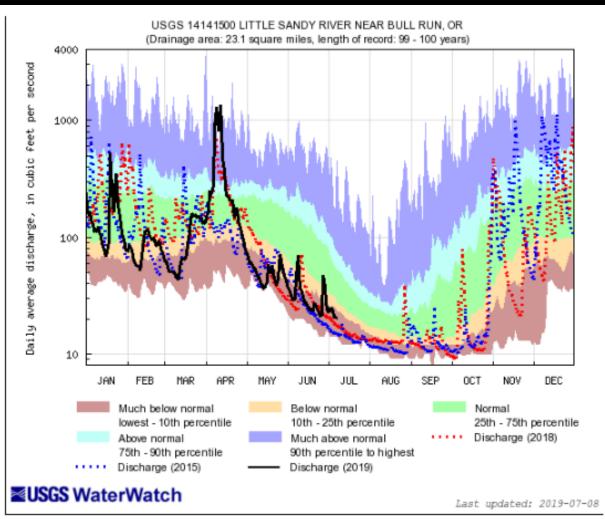
## 14120000 Hood R at Tucker Bridge





E	Explanat	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	

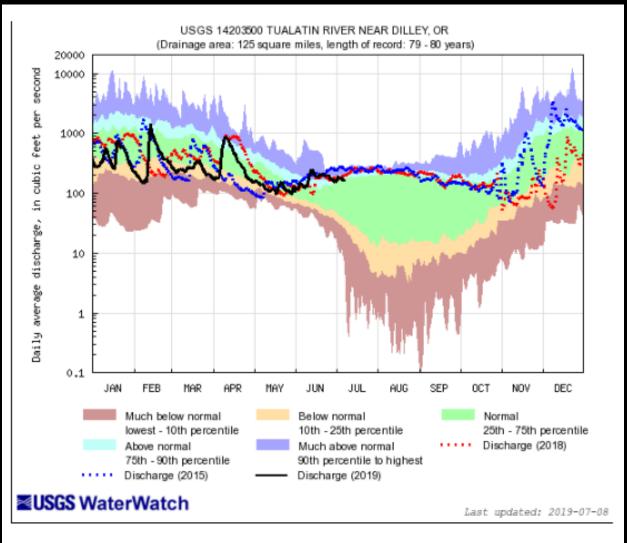
## 14141500 Little Sandy R nr Bull Run





E	xplana	tion - Pe	ercentile	e classes	
inunert.					_
Iowest- 10th percentile	10-24	25-75	76-90	90th percentile -highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

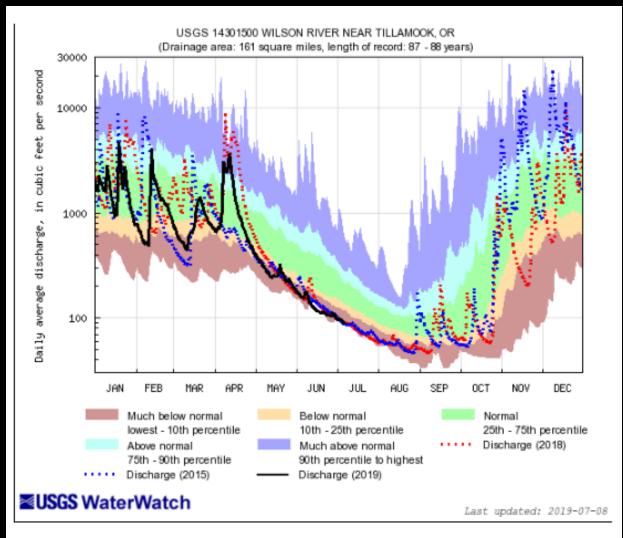
## 14203500 Tualatin R nr Dilley





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

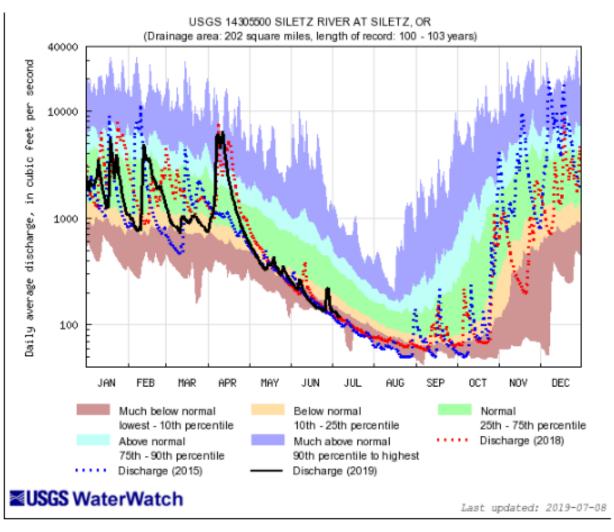
## 14301500 Wilson R nr Tillamook





E	xplana	tion - Pe	ercentile	e 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	

## 14305500 Siletz R at Siletz



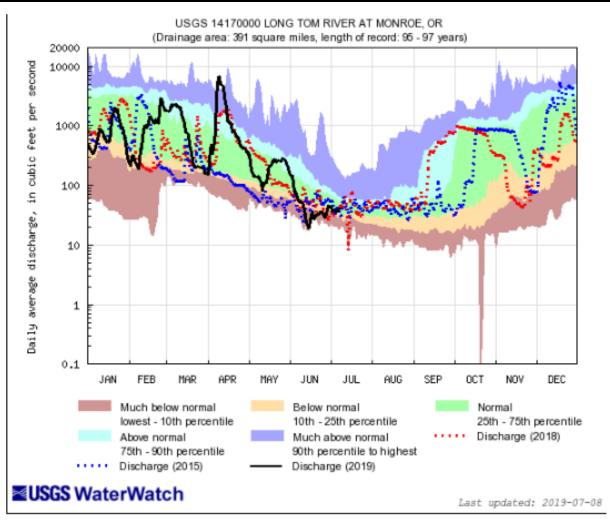
Evaluation Decentile classes

Flow

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



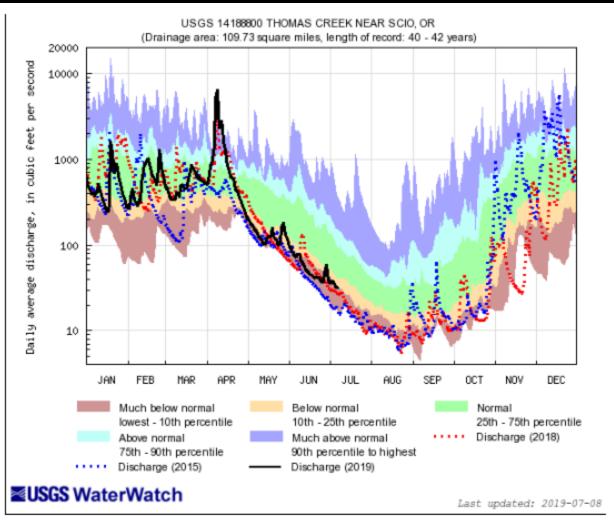
## 14170000 Long Tom R at Monroe



E	xplana	tion - Pe	ercentile	e 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	

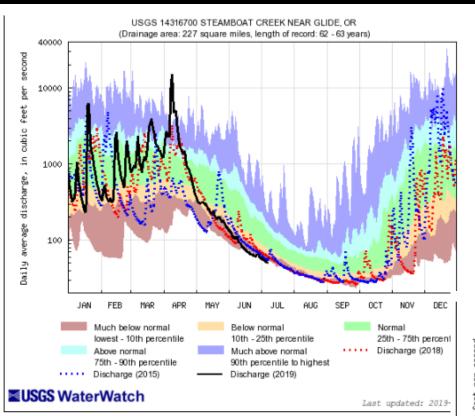


## 14188800 Thomas Ck nr Scio





E	xplana	tion - Pe	ercentile	e 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	

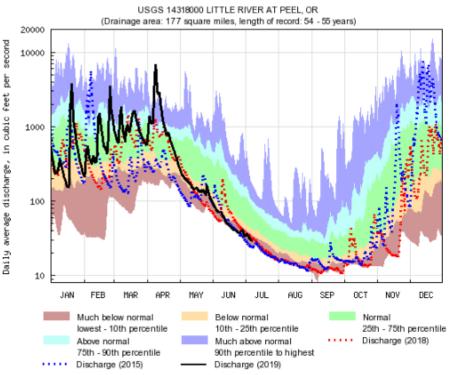


## 14318000 Little R at Peel



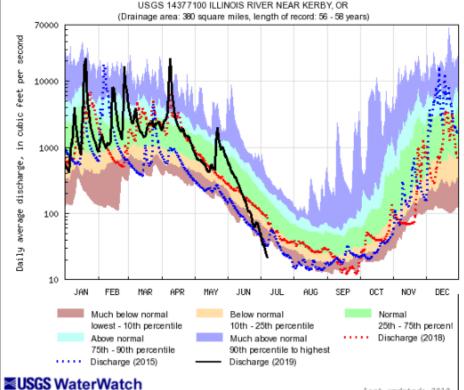
## 14316700 Steamboat Ck nr Glide

E	xplana	tion - Pe	ercentile	e classes	_
lowest- 10th percentile	10-24	25-75	76-90	90th percentile -highest	Flow
Much below	Below	Normal	Above	Much above	



USGS WaterWatch

Last updated: 2019-07-08

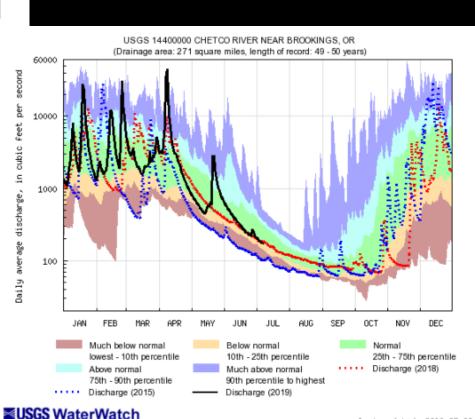


### Last updated: 2019-

E	xplana	tion - Pe	ercentile	classes	_
lowest- 10th percentile	10-24	25-75	76-90	90th percentile -highest	Flow
Much below	Below	Normal	Above	Much above	

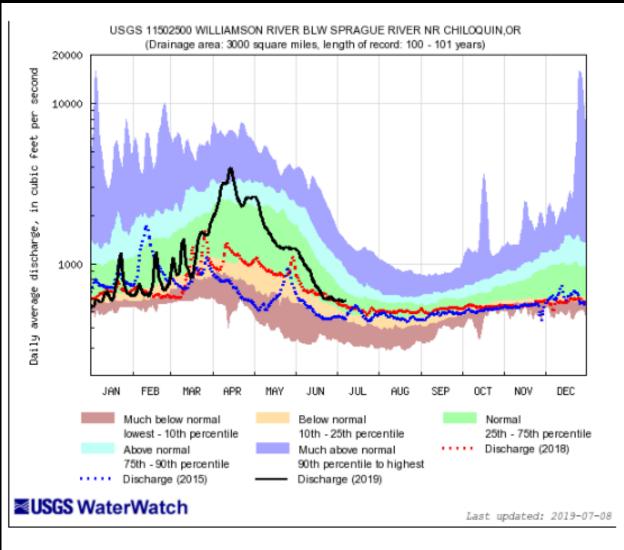
14400000 Chetco R nr Brookings **≪USGS** 

## 14377100 Illinois R nr Kirby



### Last updated: 2019-07-08

# 11502500 Williamson R blw Sprague R

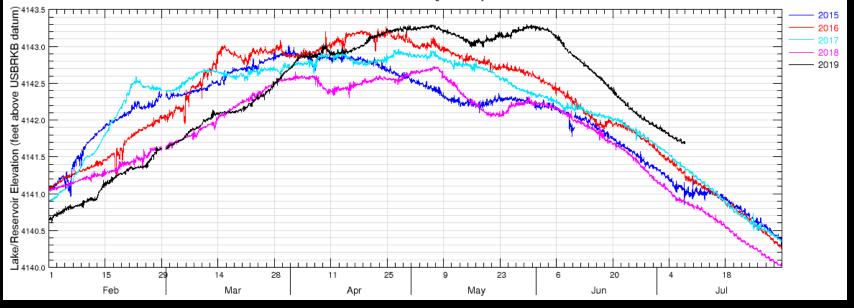




E	Explanation	tion - Pe	ercentile	classes	
lowest- 10th percentile	10-24	25-75	76-90	90th percentile -highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

Upper Klamath Lake nr Klamath Falls, OR [weighted/mean] (11507001)

Data from U.S. Geological Survey



Galesville Reservoir near Azalea, OR (14308995) Data from U.S. Geological Survey ΕT Feb May Jun Jul Mar Apr

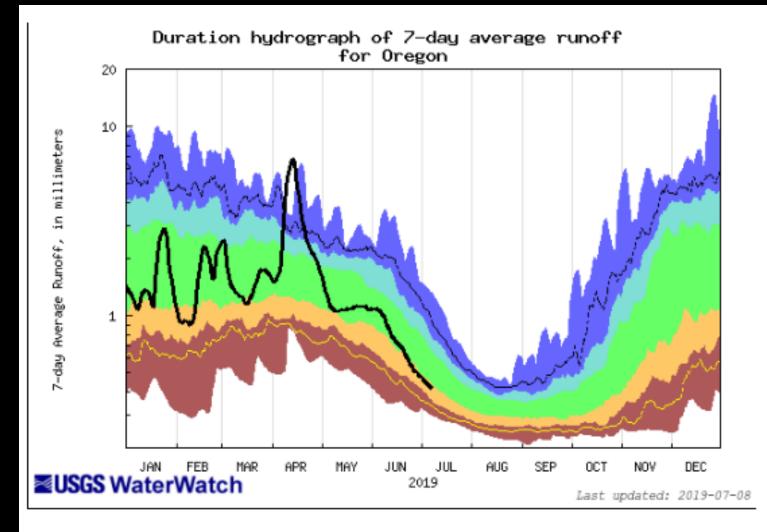
Elevation (feet above NGVD 1929)

#### US GEOLOGICAL SURVEY, OREGON WATER SCIENCE CENTER WATER AVAILABILITY REPORT FOR JUNE 2019

Station	Basin	Monthl disc Cubic feet per second	y mean harge Percent of average	in dis- charge from previous month (percent)	Accumulated Runoff For the Period Oct. to June Percent of average
Donner Und Blitzen nr Frenchglen			139		125
(*)Deep Creek above Adel	Lake County	226	114	-57	138
(*)Chewaucan River near Paisley	Lake County	258	103	-57	121
Williamson River near Chiloquin	Klamath	804	85	-50	90
Owyhee River near Rome	Owyhee	2,110	263	-10	109
(*)NF Malheur River near Beulah	Malheur	193	117	-65	127
Grande Ronde R at Troy	Grande Ronde Powder/Burnt	5,404	102	-40	123
Umatilla River nr Gibbon	Umatilla Lower John Day	122	69	-75	121
John Day River at Service Crk	Upper John Day	2,352	94	-61	125
(*)Little Deschutes River nr LaPine	Upper Deschutes	167	67	-49	79
Hood River nr Hood River	Lower Deschutes Mt.Hood	457	54	-50	74
Willamette River at Salem	Willamette	11,261	77	-26	80
Wilson River near Tillamook	North Coast	130	33	-51	67
Umpqua River near Elkton	Rogue/Umpqua	1,979	54	-50	94
Rogue River near Agness	Rogue/Umpqua	3,580	95	-26	102
SF Coquille River at Powers	South Coast	75	36	-63	97
Chetco River near Brookings	South Coast	348	47	-60	90



All data should be considered provisional and subject to revision. Percent of average computed using 30-year base period, water years 1981-2010. (\*) provided by Oregon Water Resources Department



	E	xplana	tion - Pe	ercentile	classe	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		

