

Water Supply Conditions Report

Drought Readiness Council



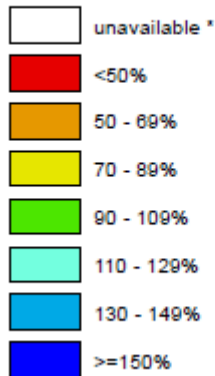
Ken Stahr
Oregon Water Resources
Department
February 14, 2019

Statewide SNOTEL Snowpack is 88% of normal

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

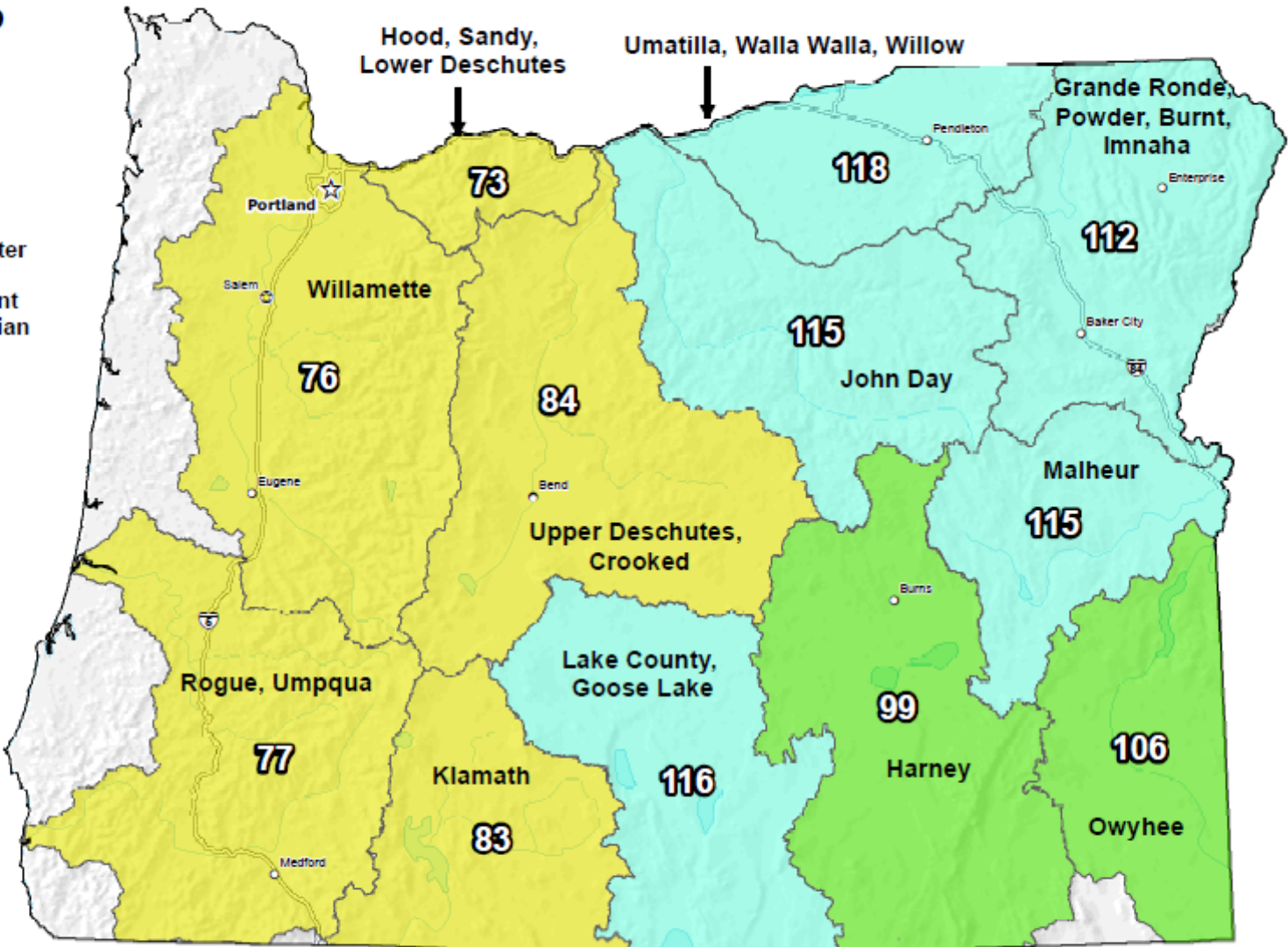
Feb 13, 2019

Current Snow Water Equivalent (SWE) Basin-wide Percent of 1981-2010 Median

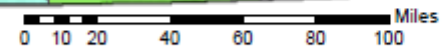


* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data
Subject to Revision



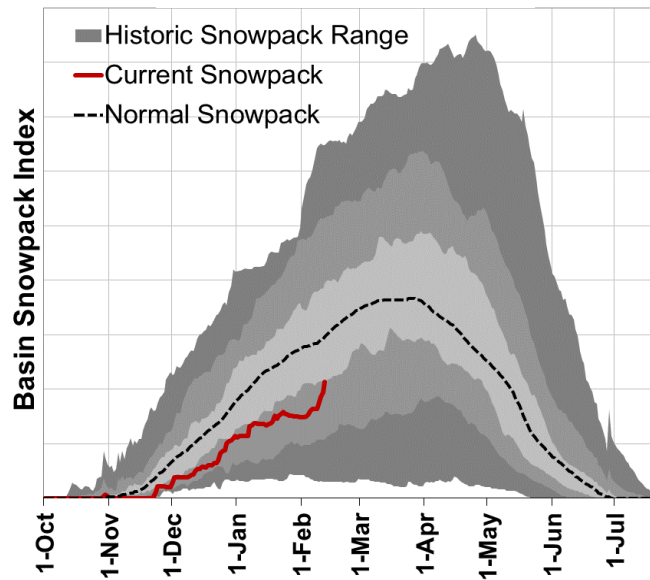
The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).



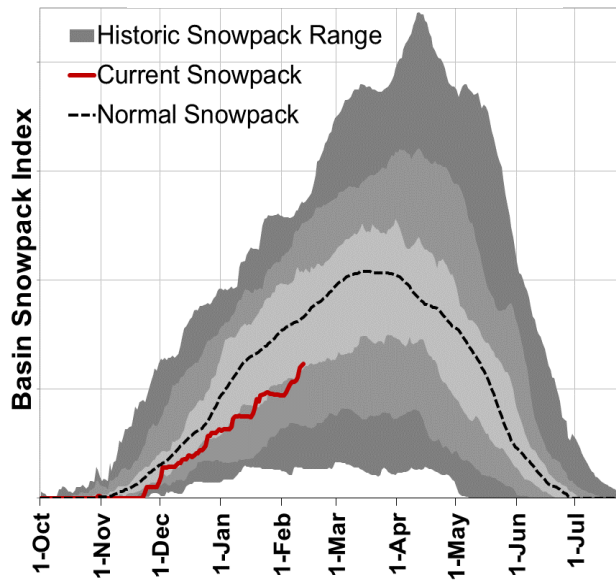
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

February 12, 2019

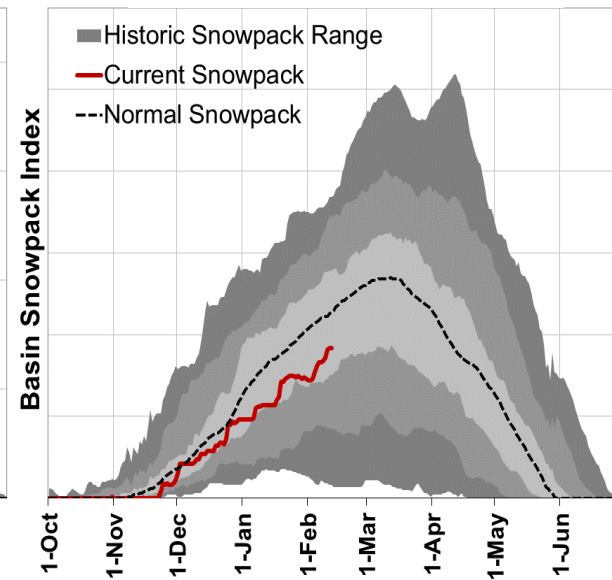
Willamette



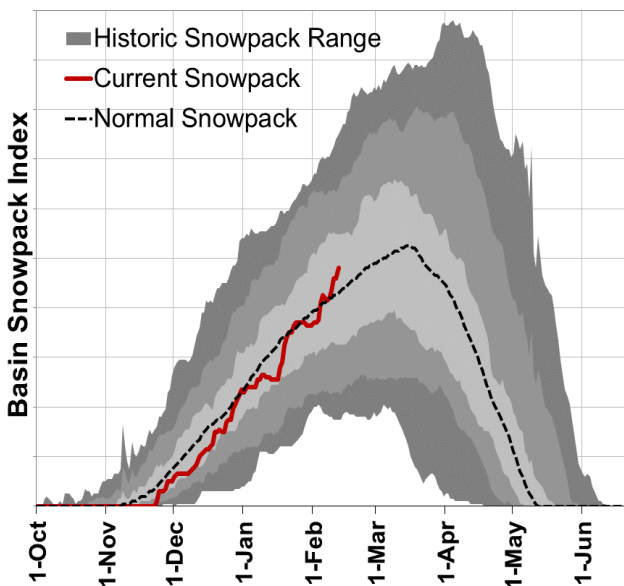
Rogue/Umpqua



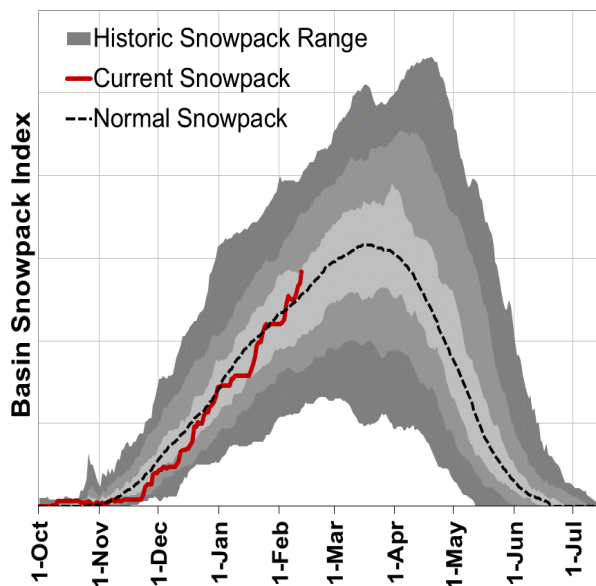
Klamath



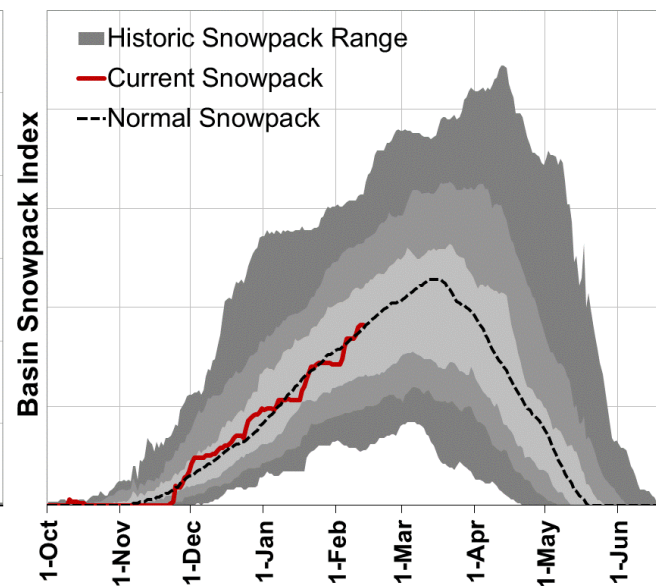
John Day



Grande Ronde/Powder/Burnt



Owyhee/Malheur

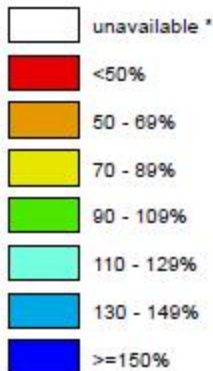


Statewide SNOTEL Precipitation is 85% of normal

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

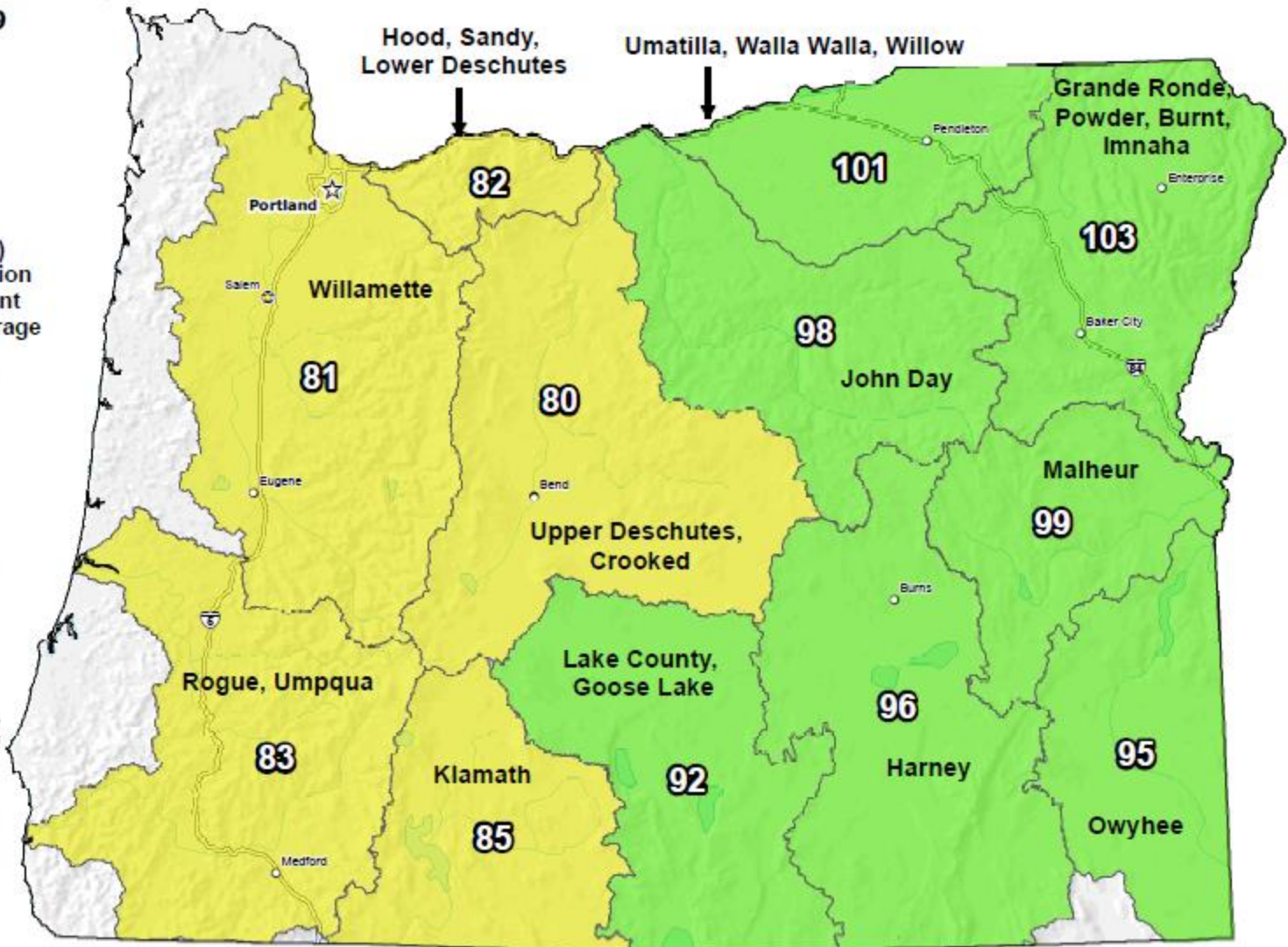
Feb 13, 2019

Water Year (Oct 1)
to Date Precipitation
Basin-wide Percent
of 1981-2010 Average

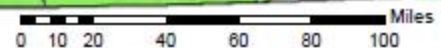


* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data
Subject to Revision



The water year to date precipitation percent of normal represents the 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).



Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
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Precipitation % of Average

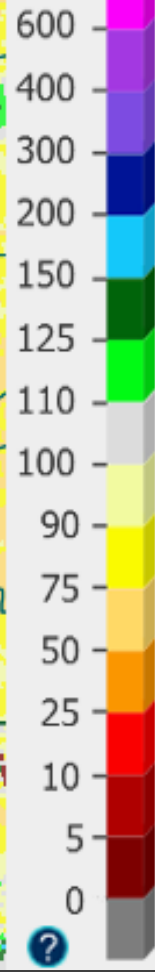
2019 Water Year thus far (132 days)

Switch Basemap

Reset View



Percent



Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS



Past 14 Days

Past 30 Days

Past 90 Days

Precipitation Data as of January 7th, 2019

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



Recent Temperatures

December 2018

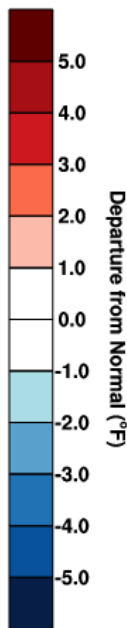
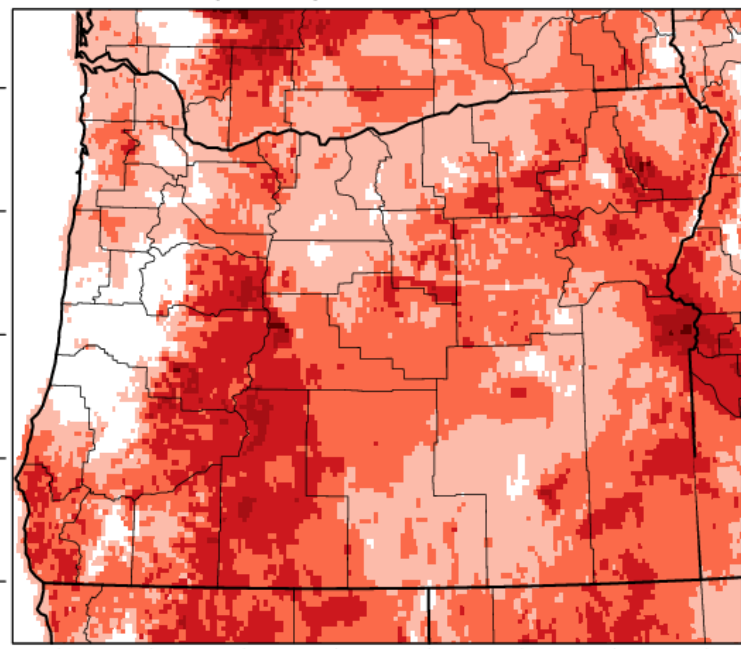
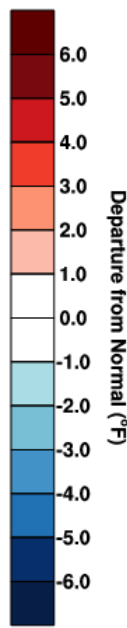
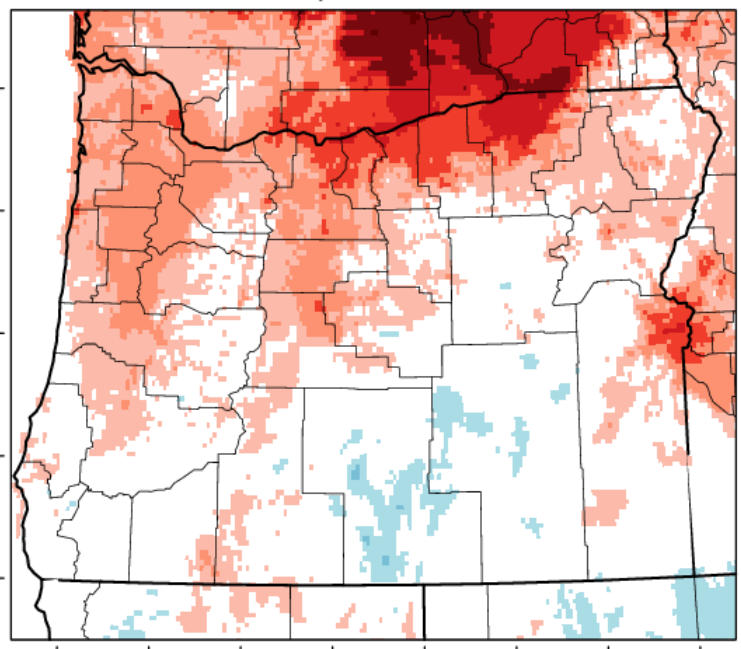
January 2019

Oregon - Mean Temperature

Oregon - Mean Temperature

December 2018 Departure from 1981-2010 Normal

January 2019 Departure from 1981-2010 Normal



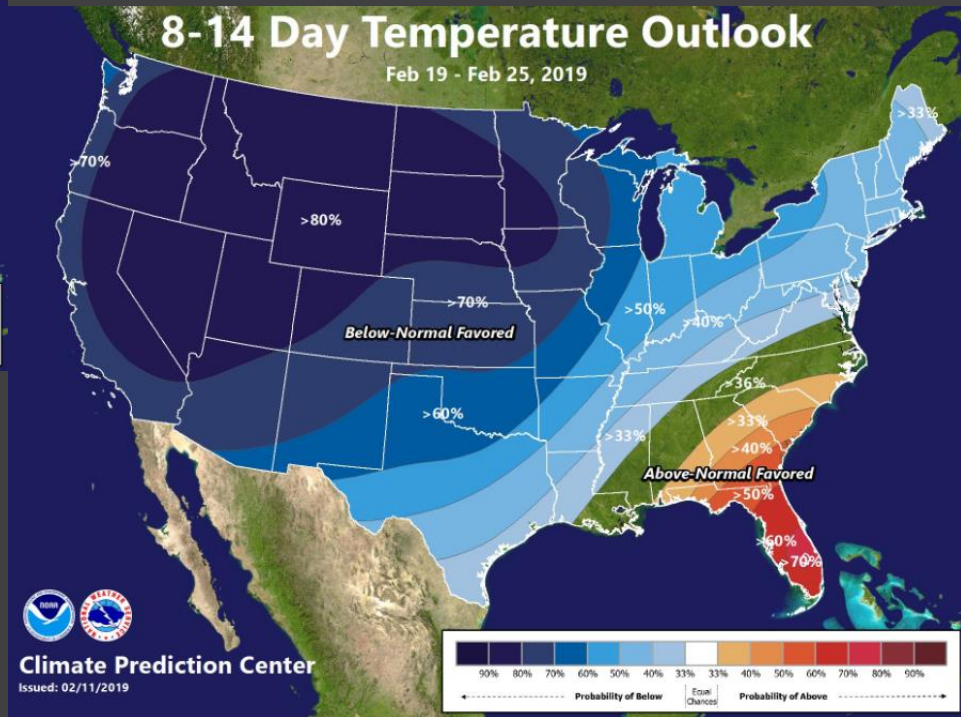
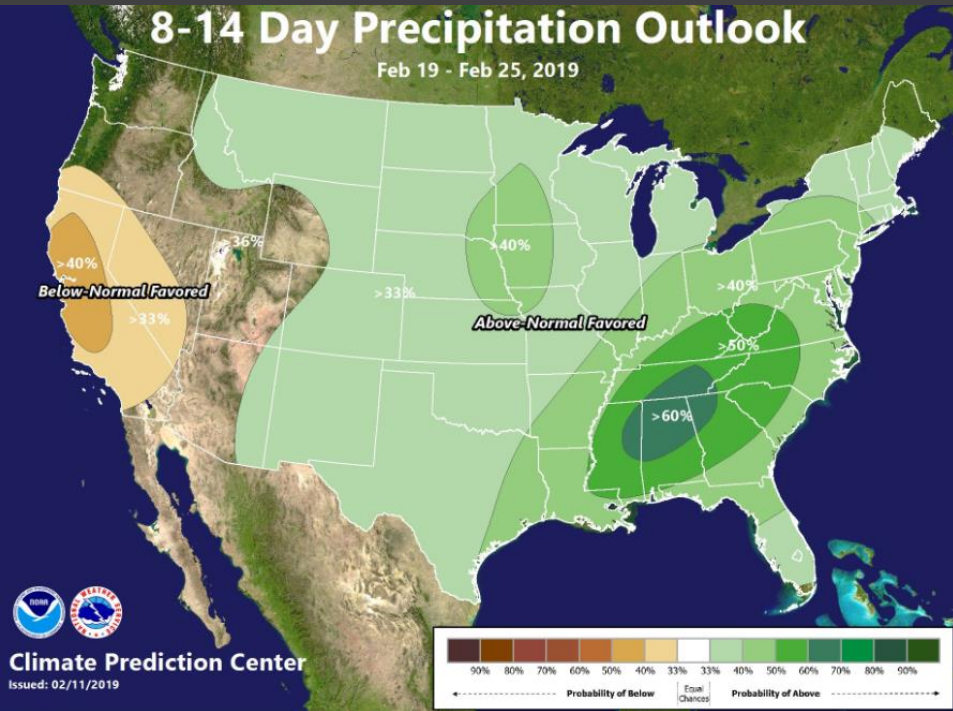
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 7 JAN 2019

WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 FEB 2019

Temperatures thus far in February are 5 to 10 degrees below normal.

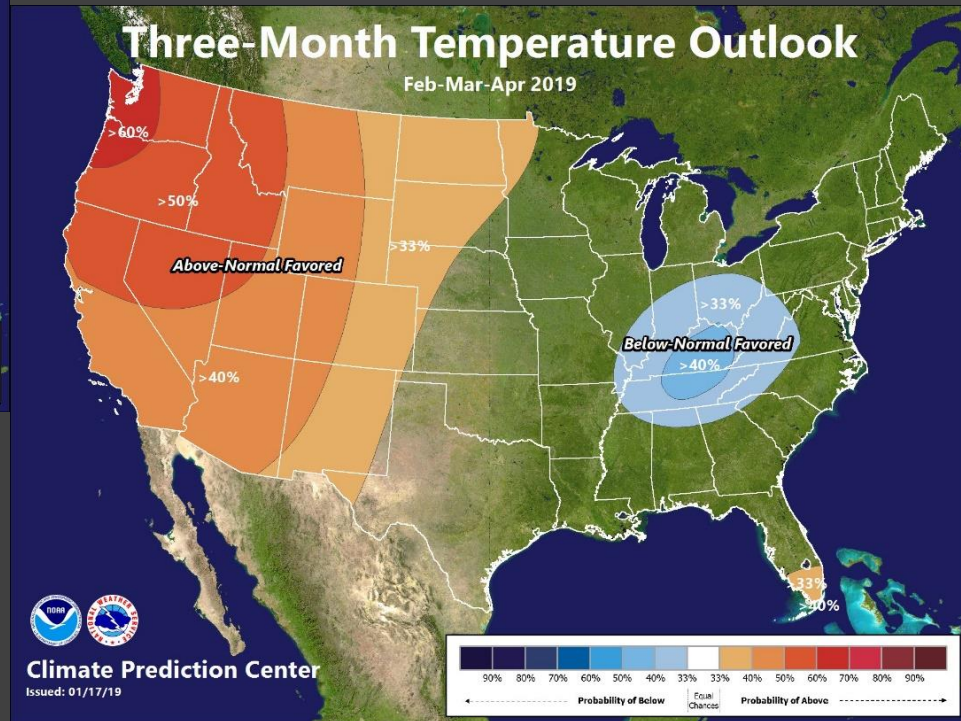
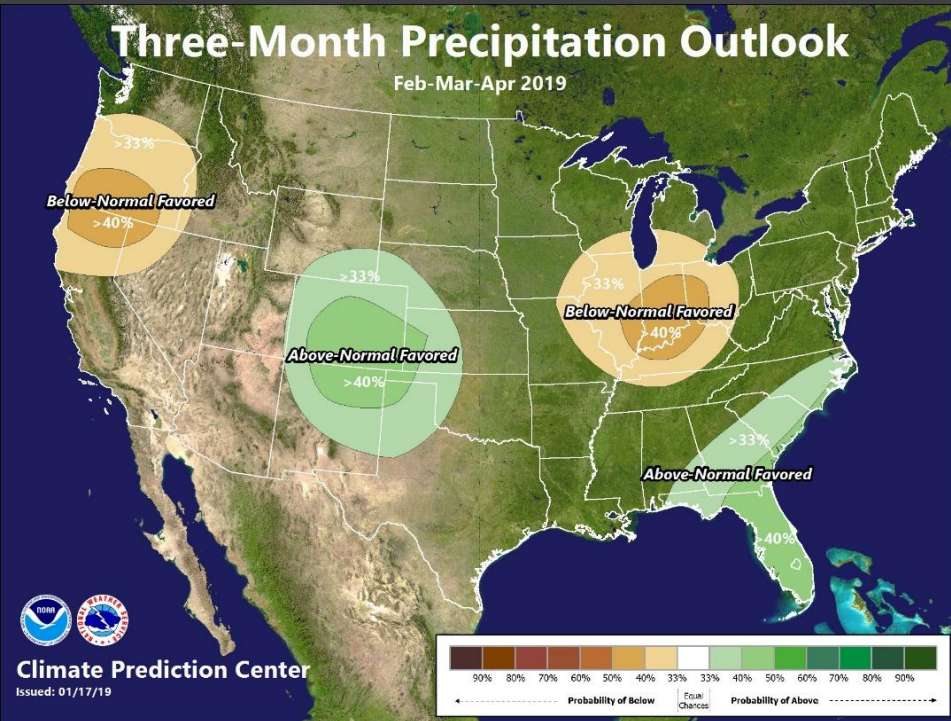


Mid-February Outlook

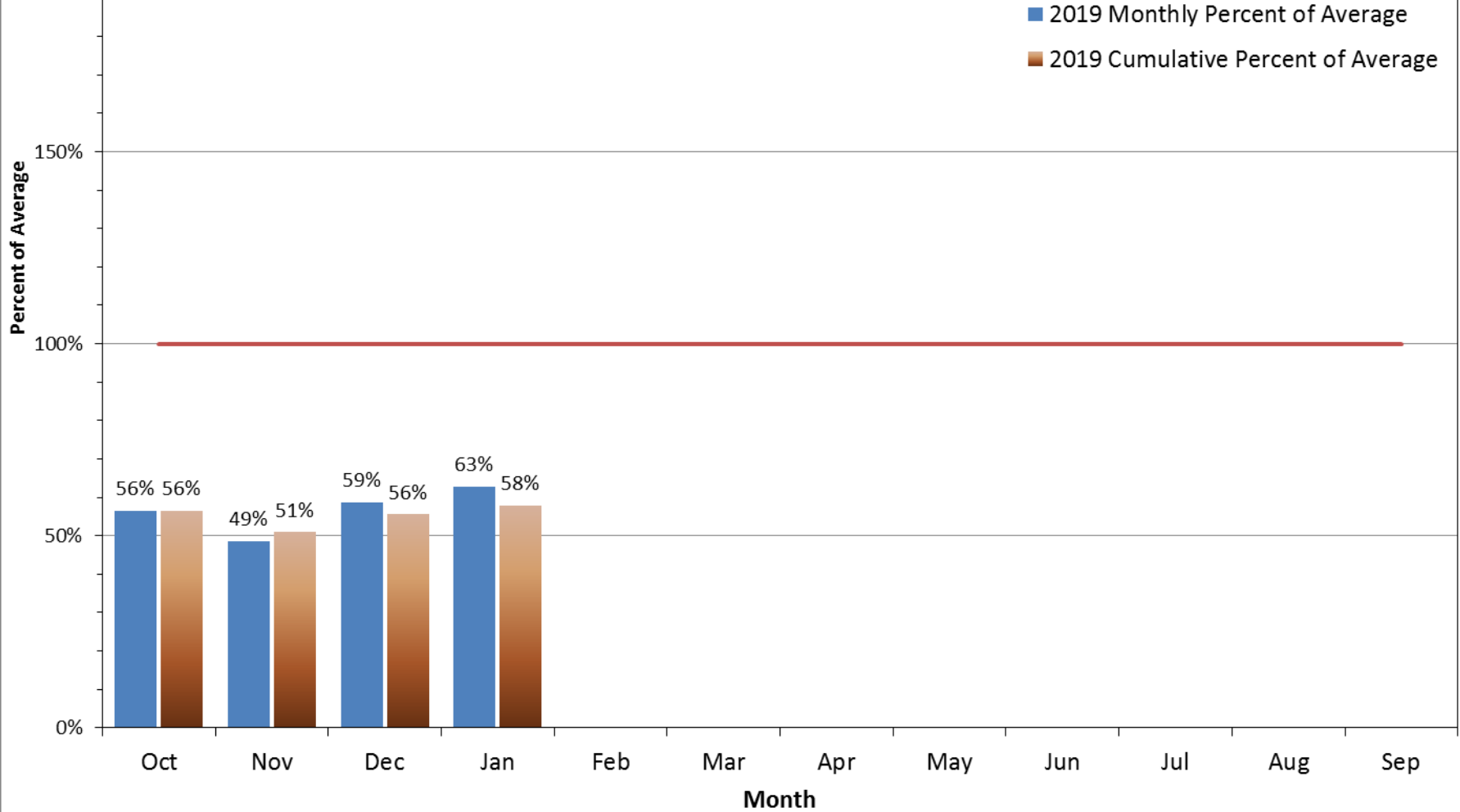




February-March-April Outlook

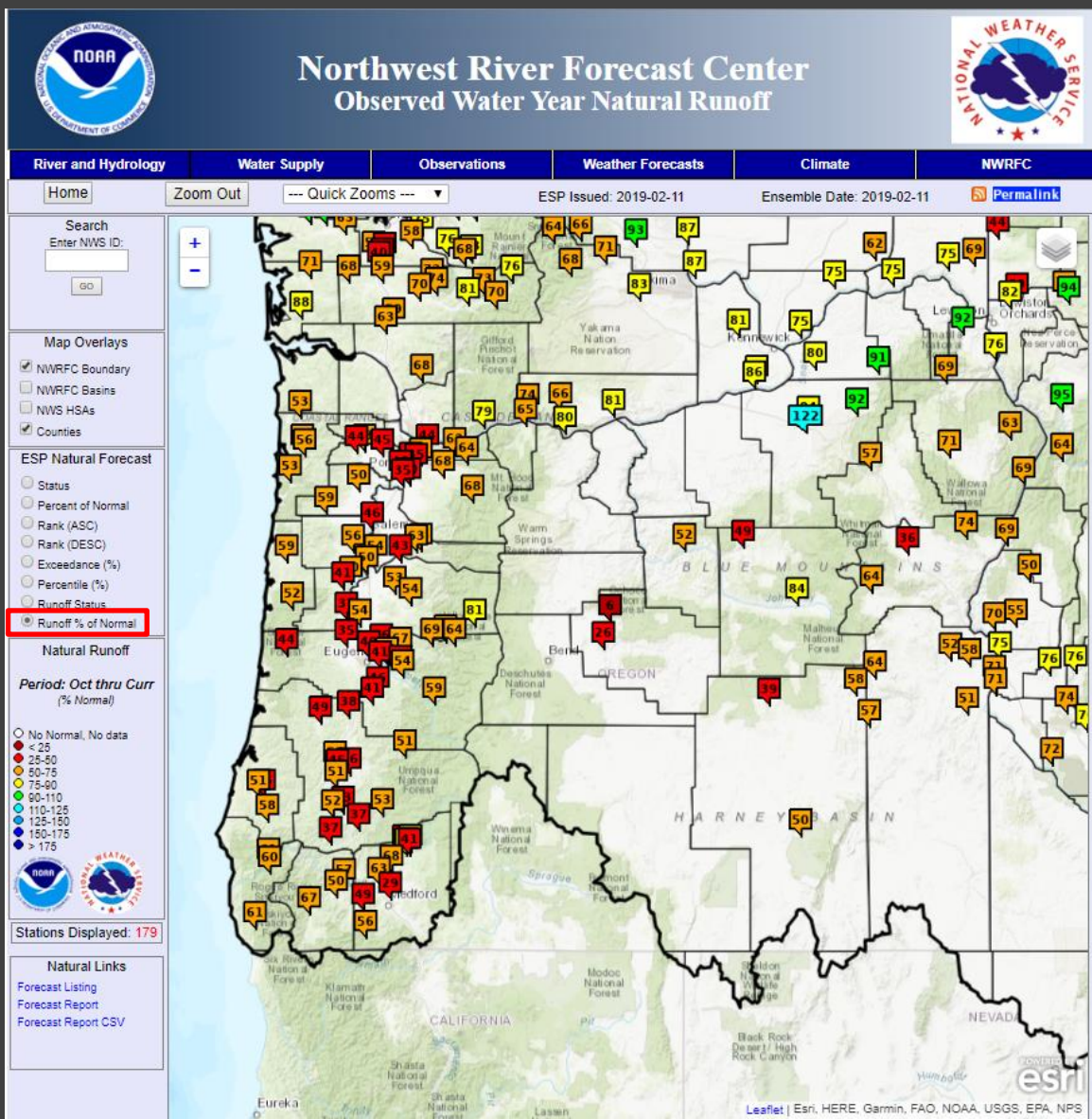


2019 Statewide Percent of Average Stream Flow

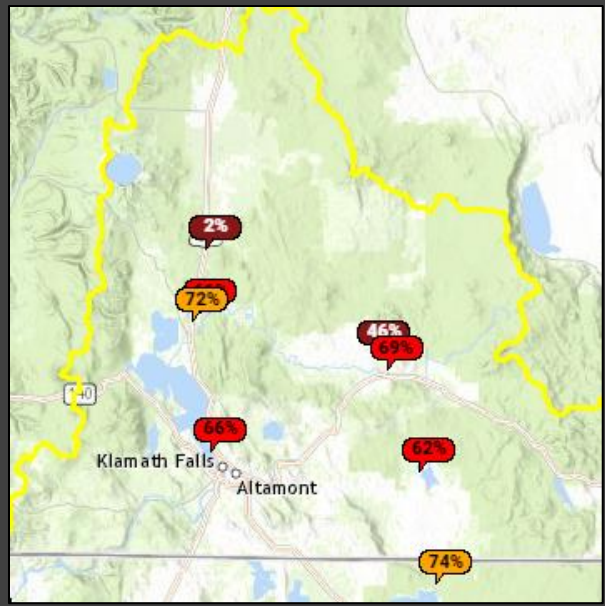




Observed WY 2019 Runoff thus far



via California Nevada RFC

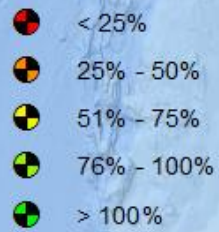


Percent of Average Streamflow January - 2019

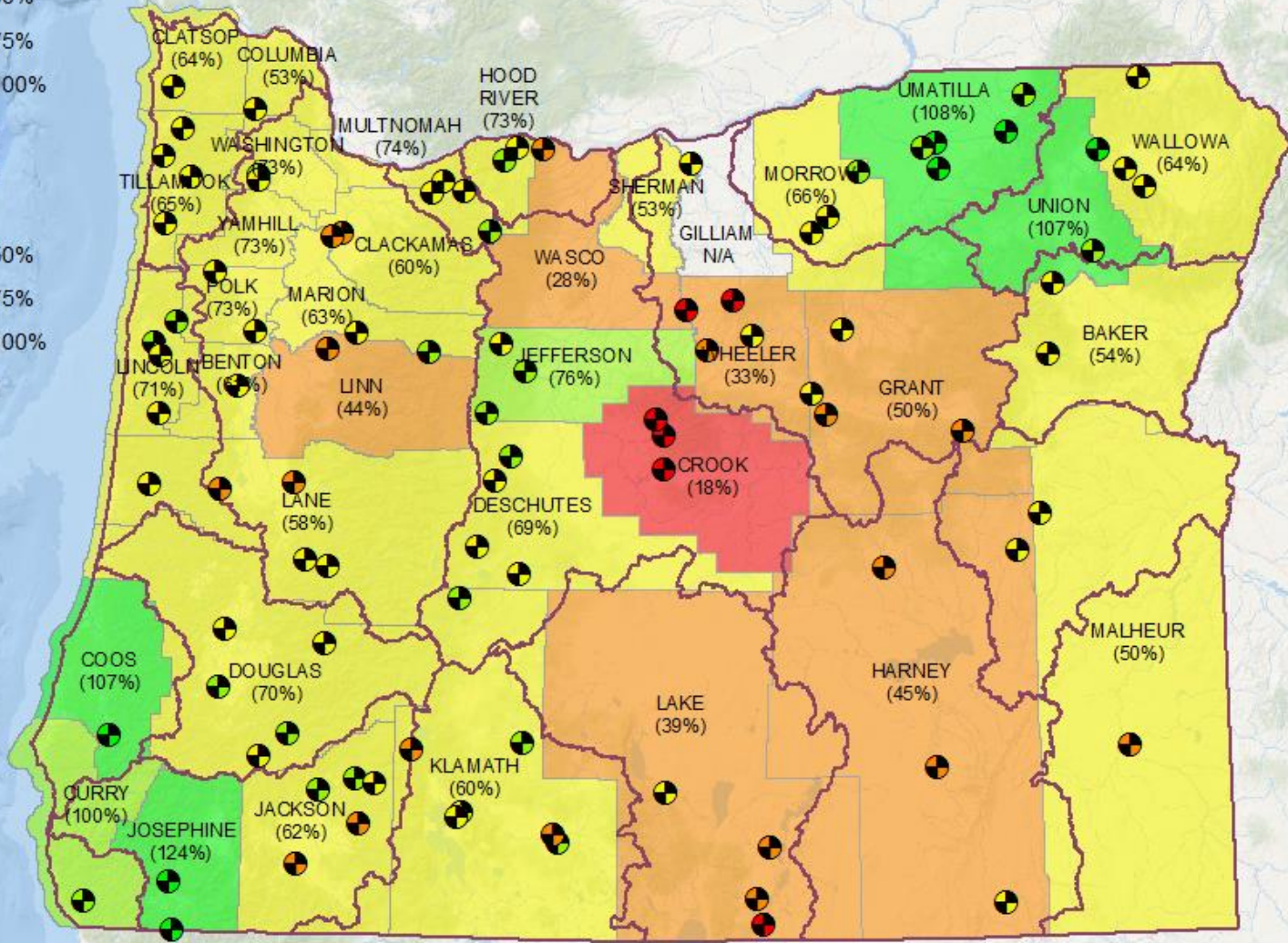
County



Stream gage

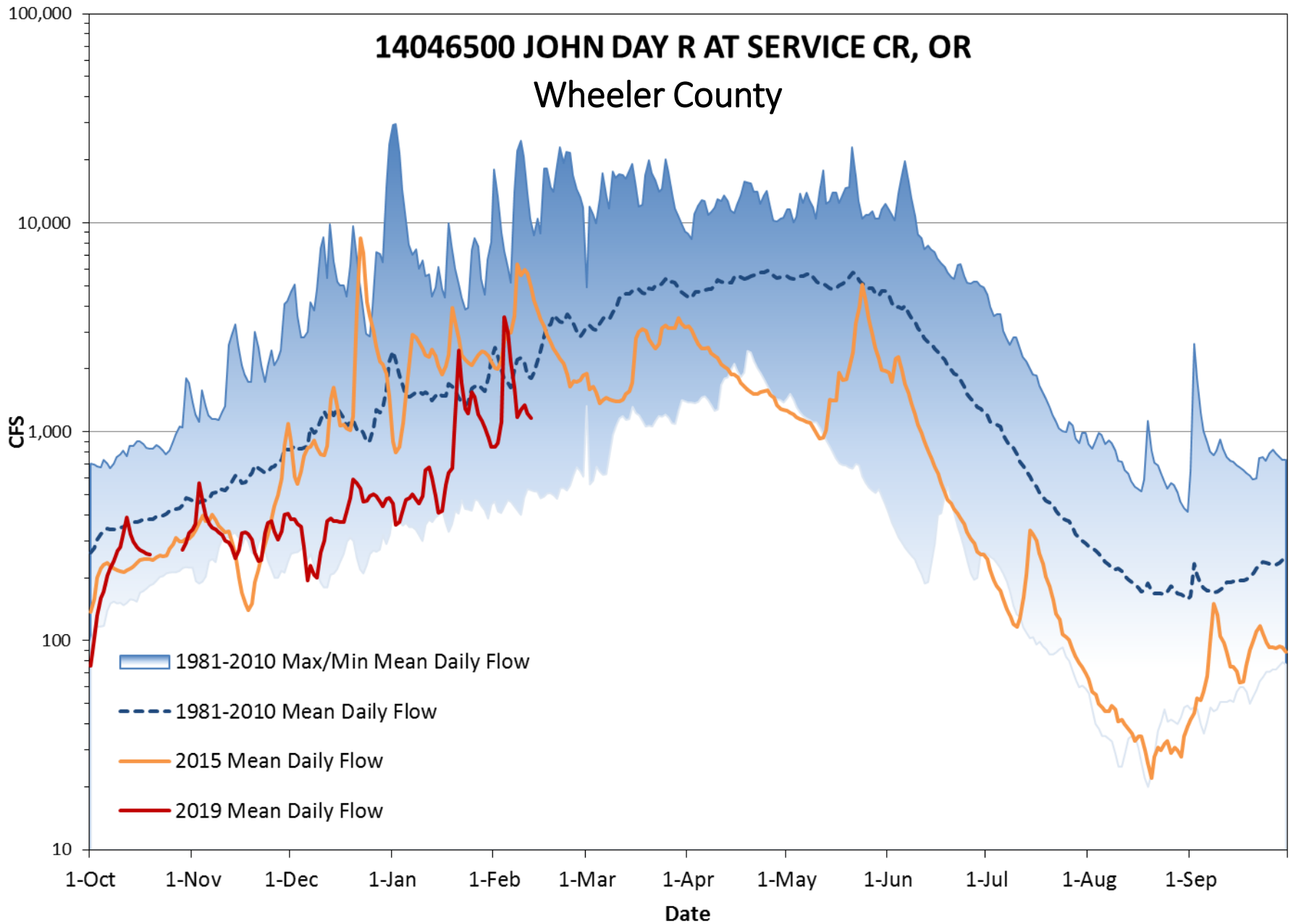


WRD Basin



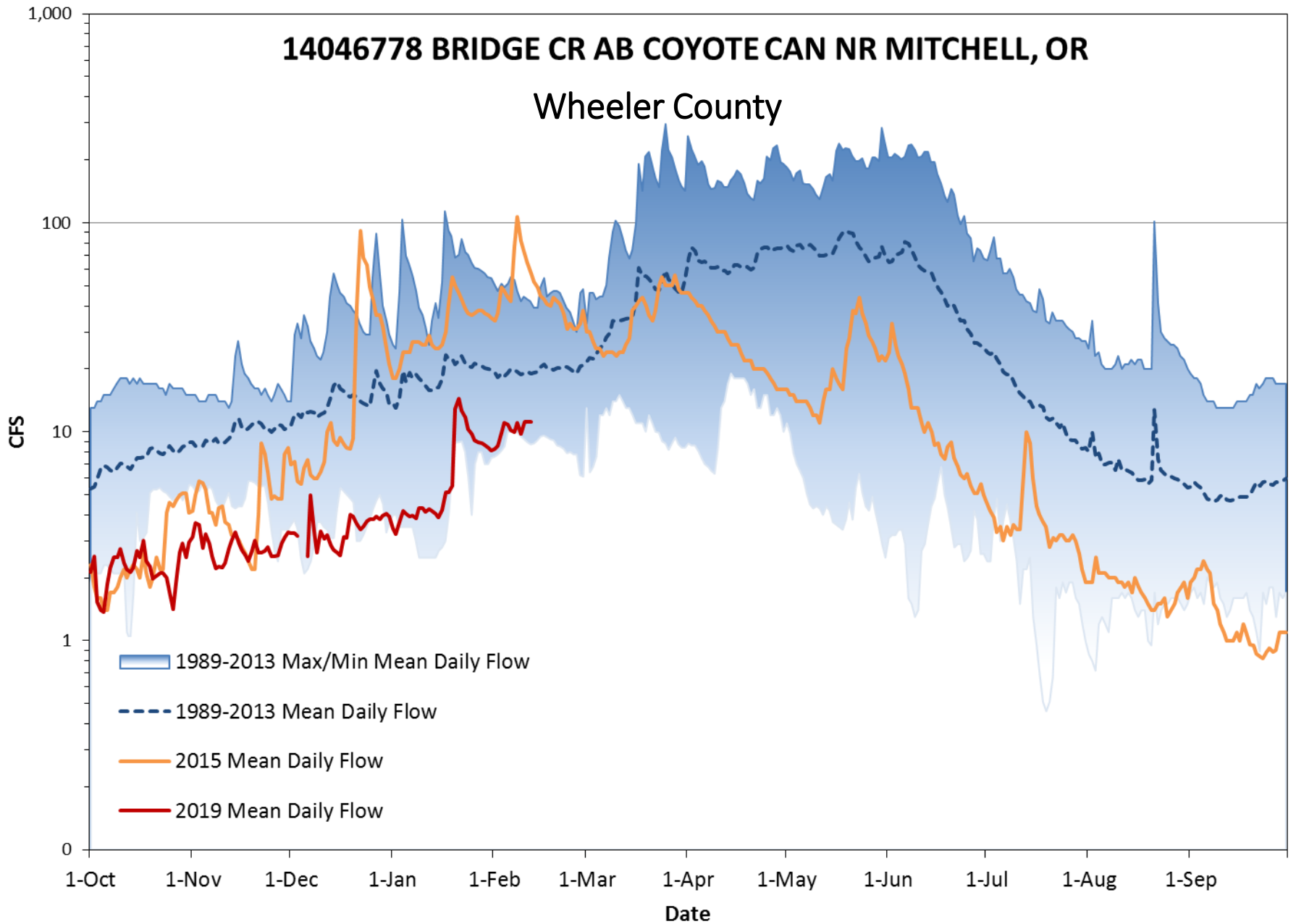
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

14046500 JOHN DAY R AT SERVICE CR, OR Wheeler County

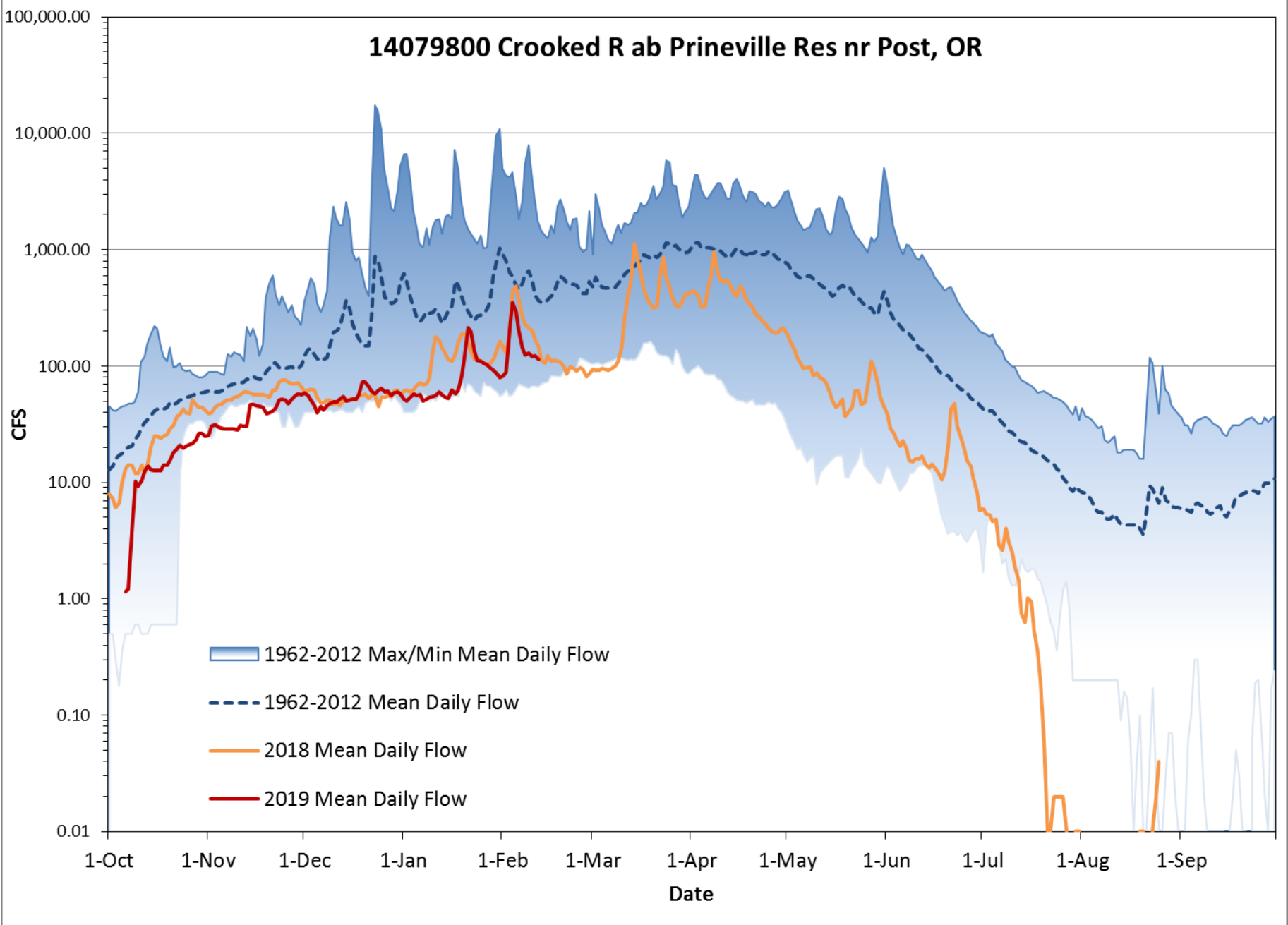


14046778 BRIDGE CR AB COYOTE CAN NR MITCHELL, OR

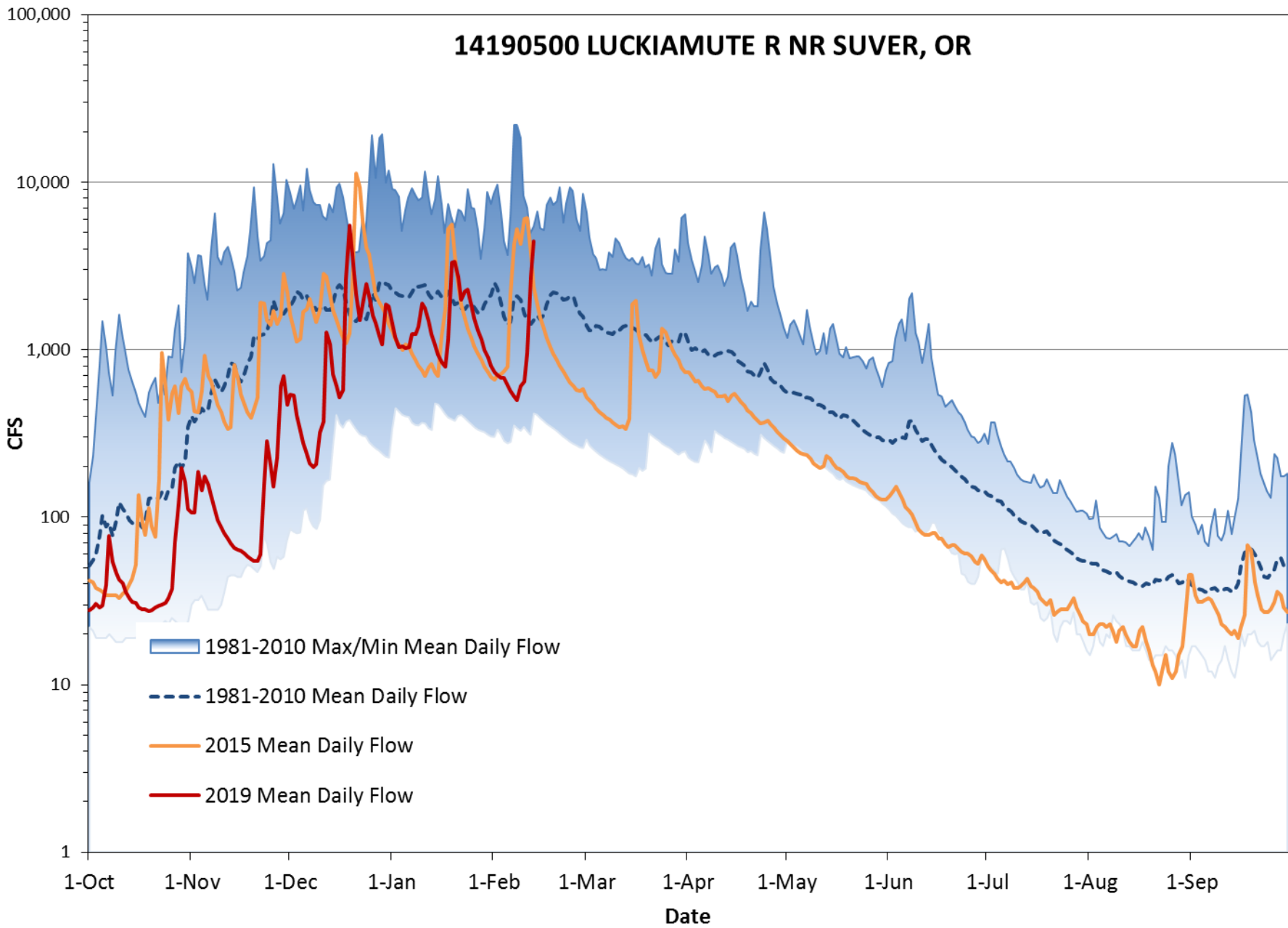
Wheeler County



14079800 Crooked R ab Prineville Res nr Post, OR



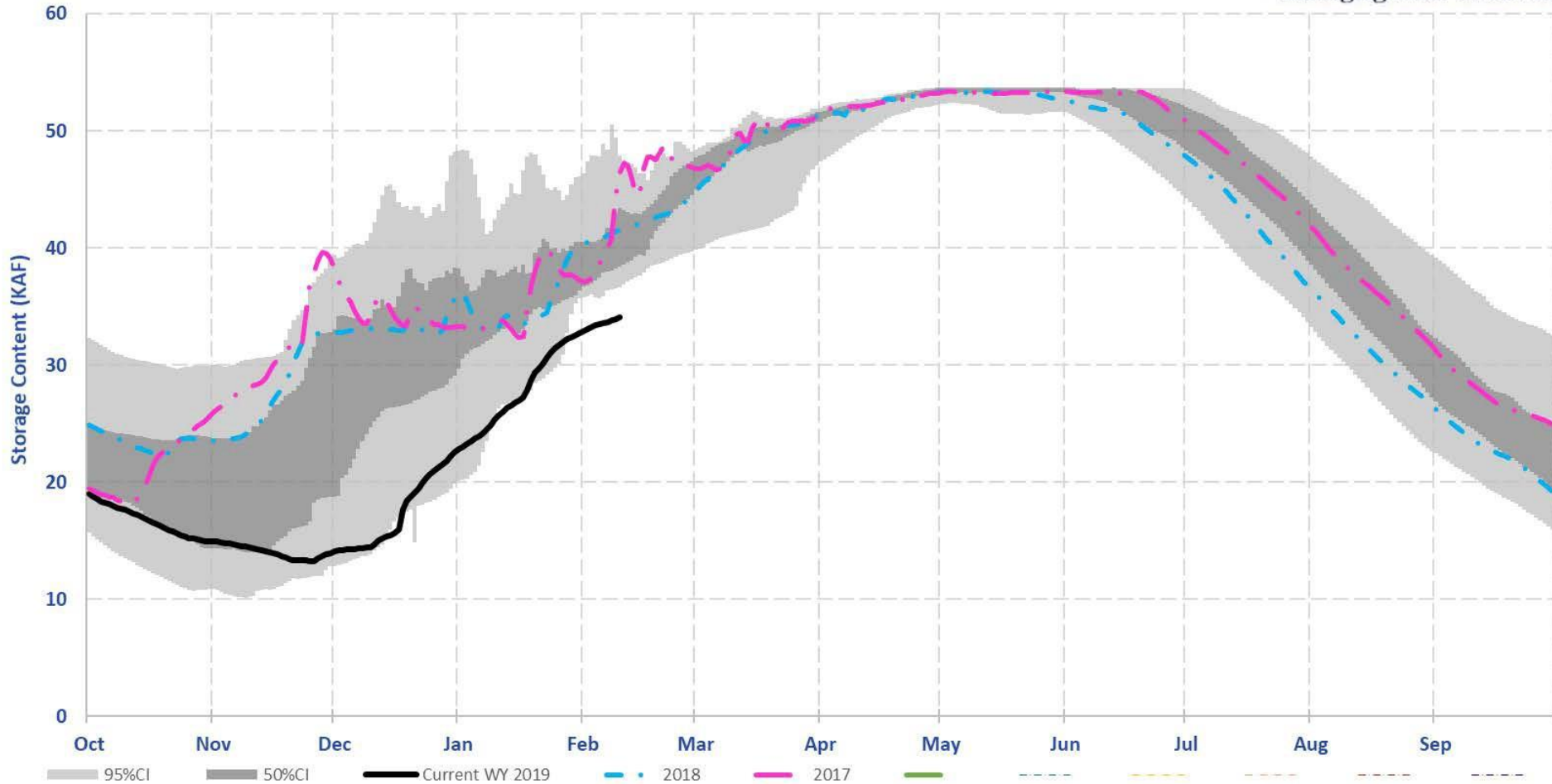
14190500 LUCKIAMUTE R NR SUVER, OR



Tualatin River Basin: Scoggins

RECLAMATION
Managing Water in the West

SCO AF

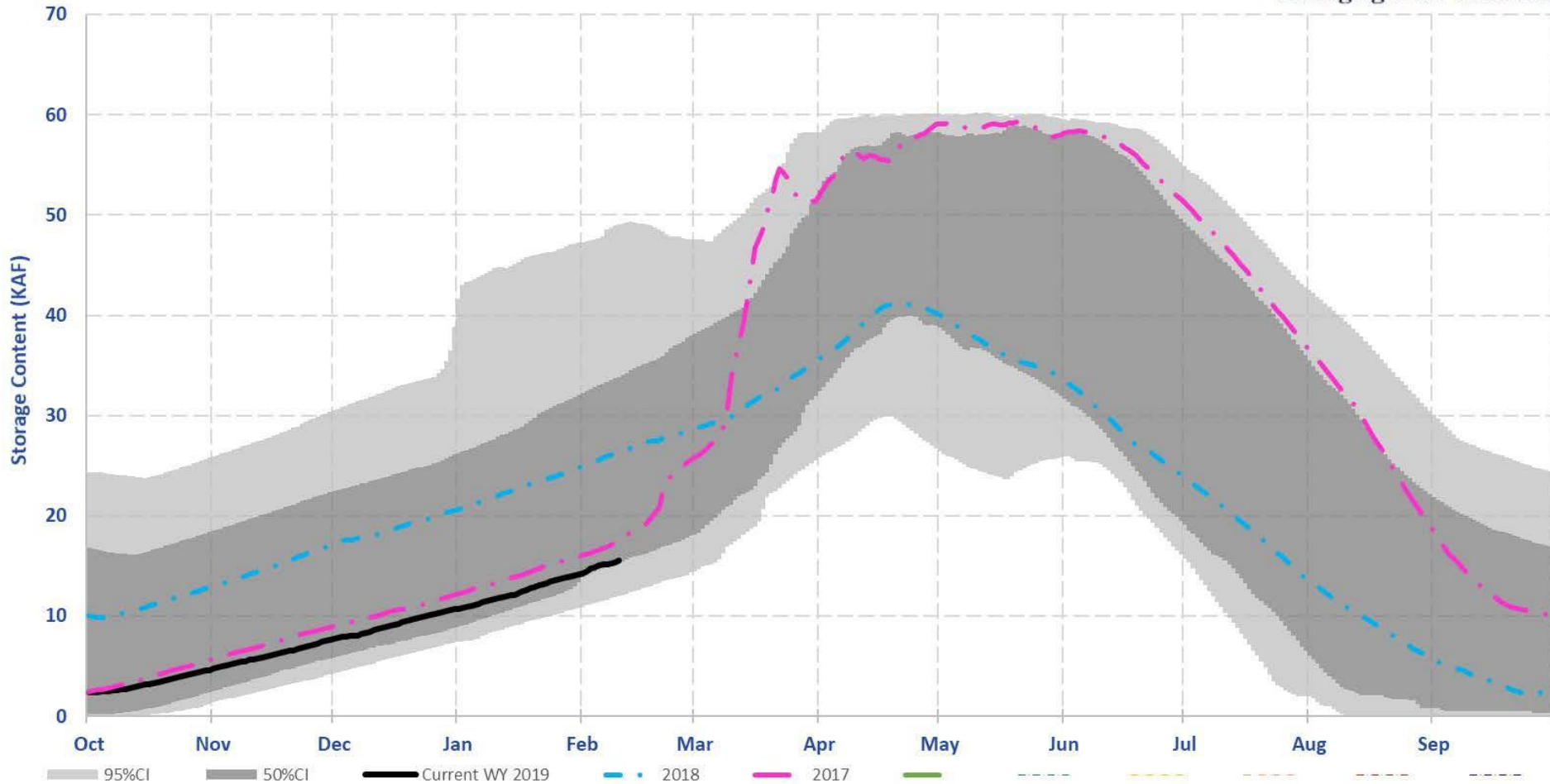


RECLAMATION

Malheur River Basin: Beulah

RECLAMATION
Managing Water in the West

BEU AF

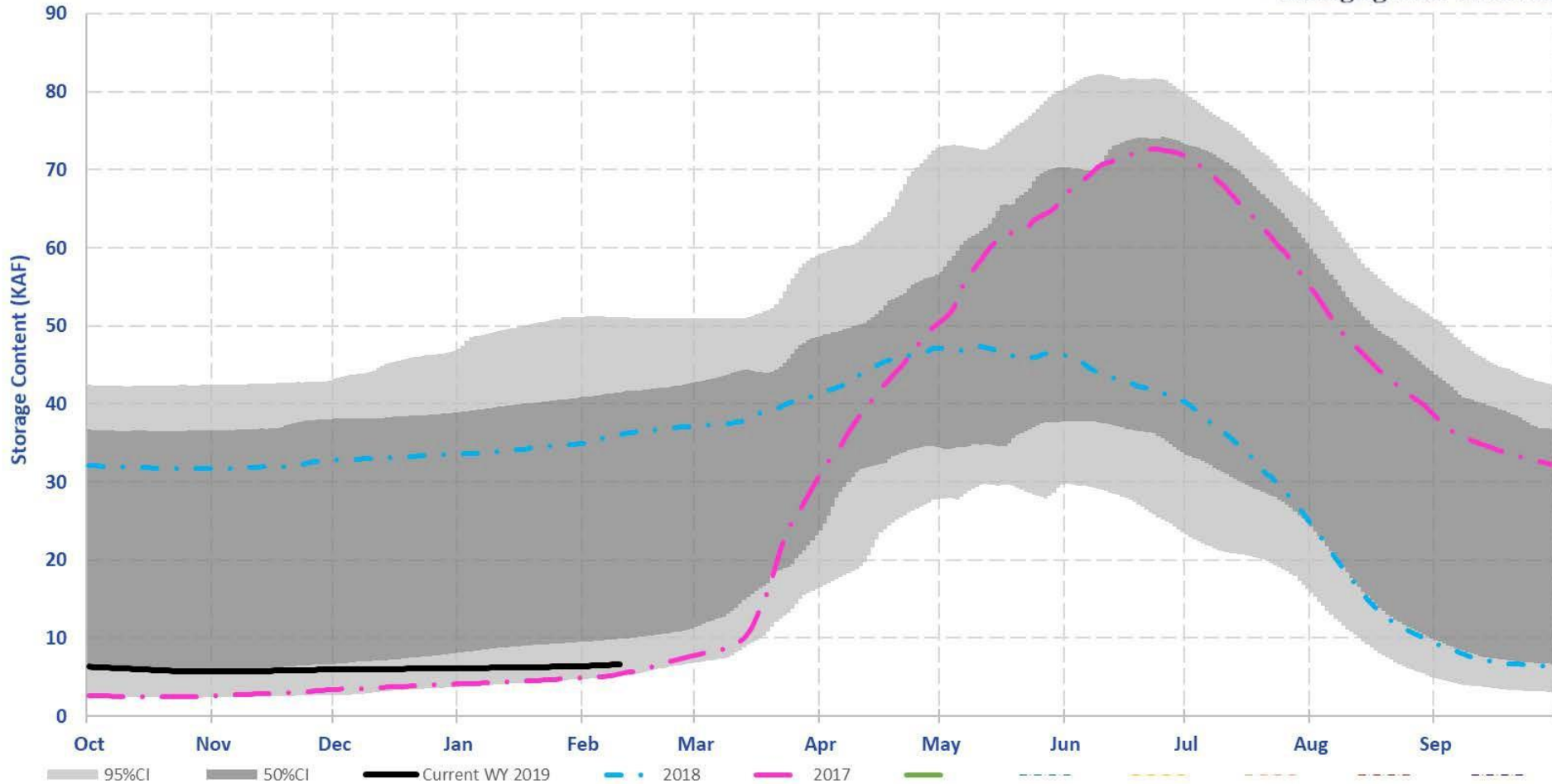


RECLAMATION

Powder River Basin: Phillips

RECLAMATION
Managing Water in the West

PHL AF



RECLAMATION

Reservoir Inflow Forecasts

Forecast Reservoir	Forecast Period	1981-2010 Average (KAF)	USBR Forecast (KAF)	% Average	Available Space (KAF)
Phillips	Feb-Jul	74	65	88%	67
Beulah	Feb-Jun	80	64	80%	44
Bully Creek	Feb-Jun	34	26	77%	17
McKay	Feb-Jun	58	63	108%	33
Ochoco	Feb-Jun	42	29	70%	39
Owyhee	Feb-Jun	612	481	79%	430
Prineville	Feb-Aug	203	143	71%	92
Unity	Feb-Jul	51	40	78%	17
Warm Springs	Feb-Jun	127	96	76%	153

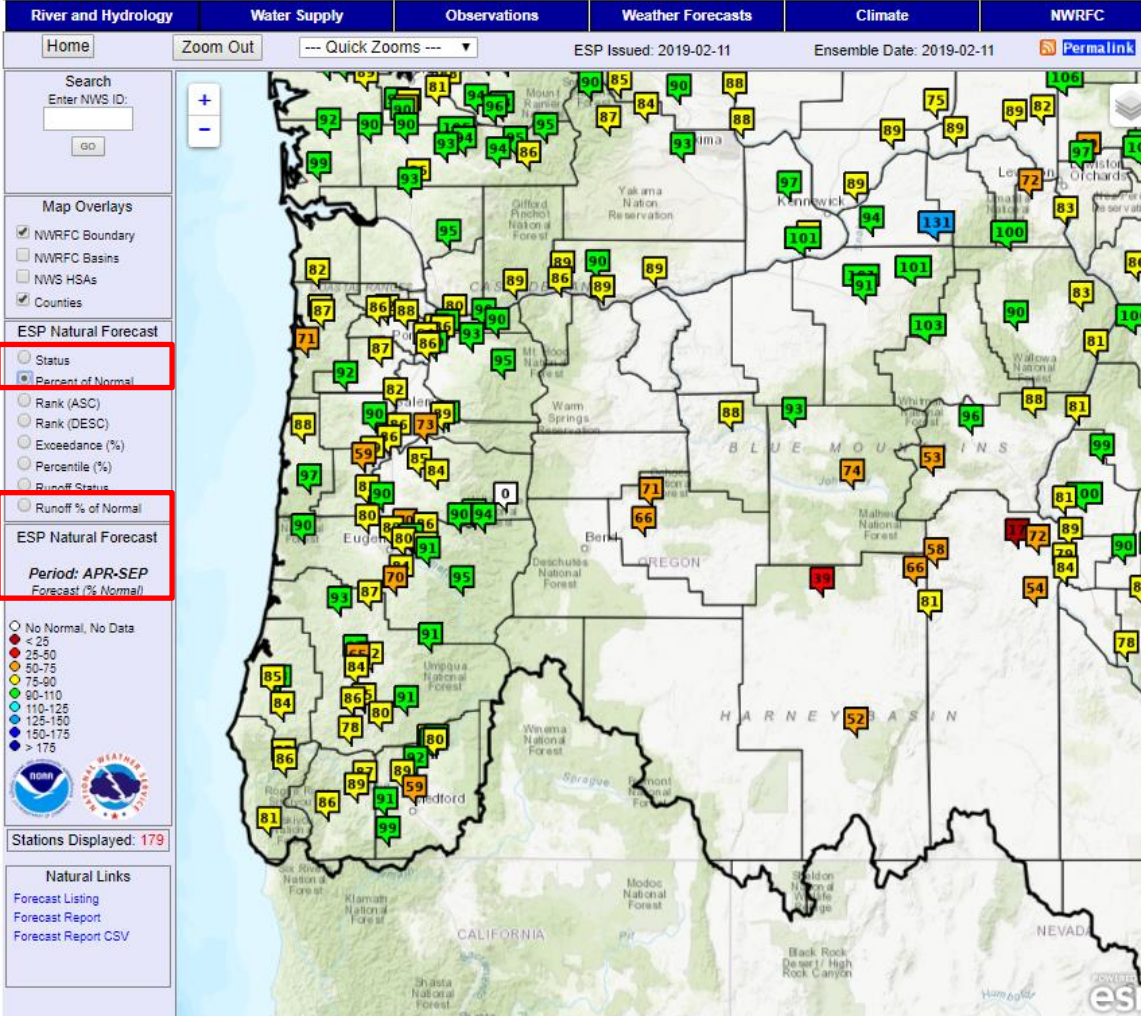
*Forecasts dated 01-FEB
Space as of 11-FEB*



Seasonal Water Supply Forecasts

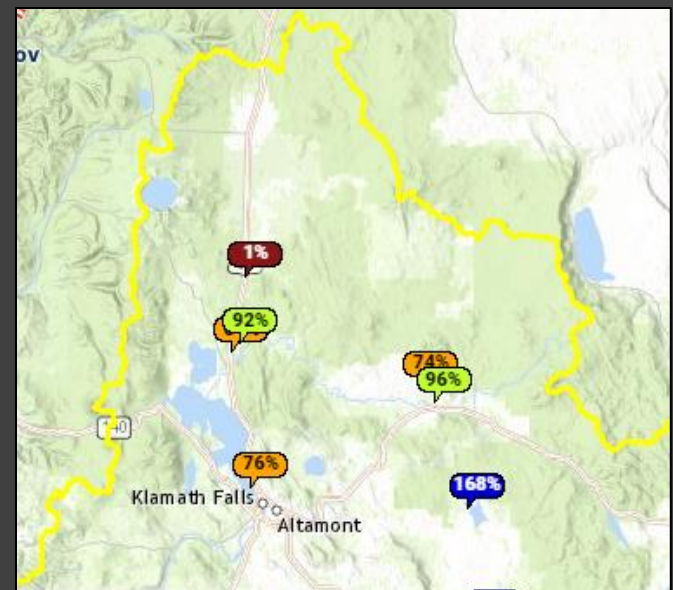


Northwest River Forecast Center ESP Natural Forecast



Forecast runoff volume for April – September 2019

via California Nevada RFC



<https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2>

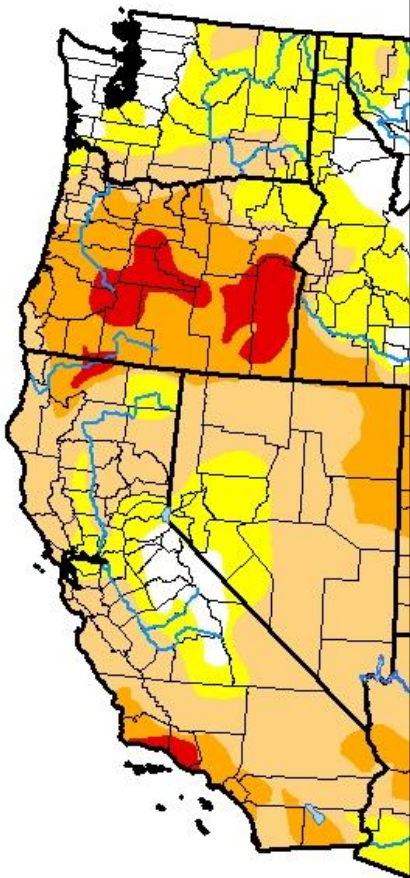
<https://www.cnrfc.noaa.gov/ol.php?product=espWS>



Drought Monitor

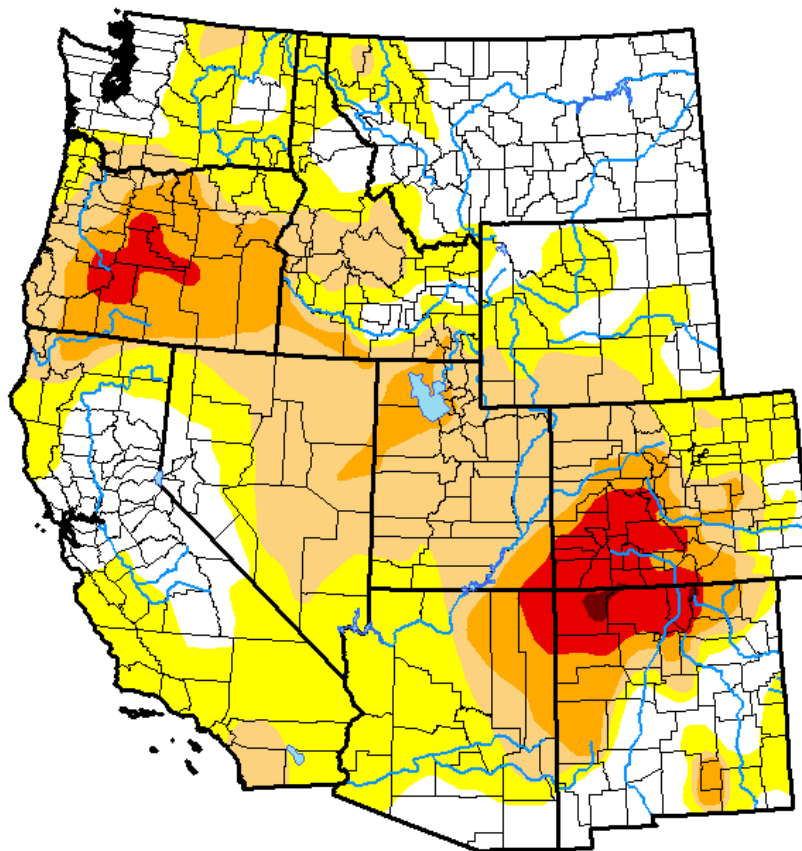
U.S. Drought Monitor West

January 1, 2019
(Released Thursday, Jan. 3, 2019)
Valid 7 a.m. EST



U.S. Drought Monitor West

February 12, 2019
(Released Thursday, Feb. 14, 2019)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	29.94	70.06	38.74	15.81	4.84	0.16
Last Week 02-05-2019	30.71	69.29	39.28	17.08	4.86	0.41
3 Months Ago 11-13-2018	21.55	78.45	50.46	29.31	10.86	3.35
Start of Calendar Year 01-01-2019	28.03	71.97	53.25	27.22	8.35	2.88
Start of Water Year 09-25-2018	13.91	86.09	59.57	39.68	18.15	4.36
One Year Ago 02-13-2018	28.57	71.43	45.18	25.27	1.26	0.00

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:

Richard Tinker
CPC/NOAA/NWS/NCEP

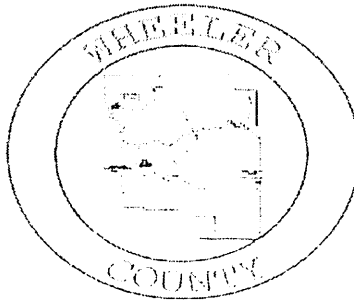


OREGON



WATER RESOURCES
DEPARTMENT

Thank you.



Dr. Brenda Bateman
Technical Services Division
Oregon Water Resources Department
Co-Chair, Oregon Drought Readiness Council
725 Summer Street NE, Suite A
Salem, OR 97301

Ms. Sonya Andron
Operations and Preparedness Manager
Oregon Office of Emergency Management
Co-Chair, Oregon Drought Readiness Council
PO Box 14370
Salem, OR 97301

RE: Oregon County Drought

January 17, 2019

Dr. Bateman and Ms. Andron:

Wheeler County, by and through its County Elected Officials, requests that Governor of Oregon issue an executive order for all of Wheeler County under the provisions of ORS 536 as a direct result of severe and continuing projected drought conditions.

There is the potential for Wheeler County agricultural and livestock, natural resources, recreational, tourism, and related economies to experience widespread and severe damage resulting from extreme weather conditions within the county. Wheeler County agriculture and livestock producers will be impacted due to projected low river flow, the John Day River which brings recreational tourism will be affected by low river flow. These impacts will effect local businesses due to the lack of tourists. Ranchers and farmers may find their wells low on water and residents and businesses of the cities in Wheeler County will be put on restricted and/or no outdoor water usage.

The county has already formally declared a drought, and has attached a copy of the adopted resolution for your files. In addition the county has taken the following actions in anticipation of the drought in Wheeler County: It will be posted on Wheeler County Facebook and the Wheeler County web-page. And, an article will be put in our local paper.

The Wheeler County Board of Commissioner/Judge has determined that additional action by and support from the state is needed. This may include assistance from the Oregon Water Resources Department and other Oregon executive branch agencies, operating within their statutory authorities.

Wheeler County Board of Commissioners/Judge therefore requests an executive order from the Governor, declaring drought in Wheeler County.

Sincerely,


Judge Lynn Morley

**IN THE COUNTY COURT OF THE STATE OF OREGON
FOR THE COUNTY OF WHEELER**

IN THE MATTER OF

Declaration of Local Disaster and Request)
For State Drought Emergency) **RESOLUTION: 2019 - 02**
for Wheeler County, Oregon)

WHEREAS, the Wheeler County Court finds that forest, agricultural and livestock industries, and related economy, are suffering severe widespread economic damages, potential injuries and lose of property resulting from extreme weather conditions within Wheeler County; and

WHEREAS, a large share of Wheeler County economy is dependent upon the agricultural and livestock sector which has been adversely affected by low snow mass and low rainfall; and

WHEREAS, annual water supplies available for irrigators and ranchers within Wheeler County are a function of both available water storage in Wheeler County and in various reservoirs, and the estimated seasonal inflow from winter snow pack. The Bureau of Reclamation has estimated January through July 2019 to be extremely below average. Storage for the reservoirs is below average and water supplies are in serious jeopardy.

WHEREAS, water conditions for 2018-19 are predicted to be lower than 2017-18, with higher than normal temperatures, and below average precipitation; and

WHEREAS, Wheeler County Court has determined that extraordinary measures must be taken to alleviate suffering of the people and livestock and to protect or mitigate economic loss, continued drought conditions and to be responsive to historically increasing wildland fire intensity;

THEREFORE BE IT RESOLVED, the Wheeler County Court requests the Governor for the State of Oregon declare a Local Disaster and approve a State Drought Emergency for Wheeler County.

DONE AND DATED this 16 day of January, 2019.



N. Lynn Morley, Wheeler County Judge



Robert L. Ordway, Wheeler County Commissioner



Richard Shaffer, Wheeler County Commissioner