

Oregon Water Supply Availability Committee

February 12, 2019



Greenpoint SNOTEL Site
Hood River County
02/08/2019
SWE = 5.4"
37% Normal
Elev = 3310'

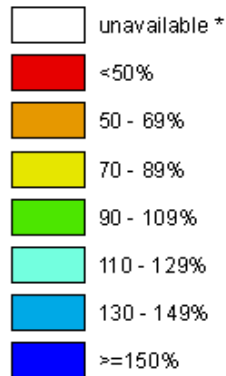
H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviaatt@usda.gov
503-414-3271

Statewide SNOTEL Snowpack is 84% of normal

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

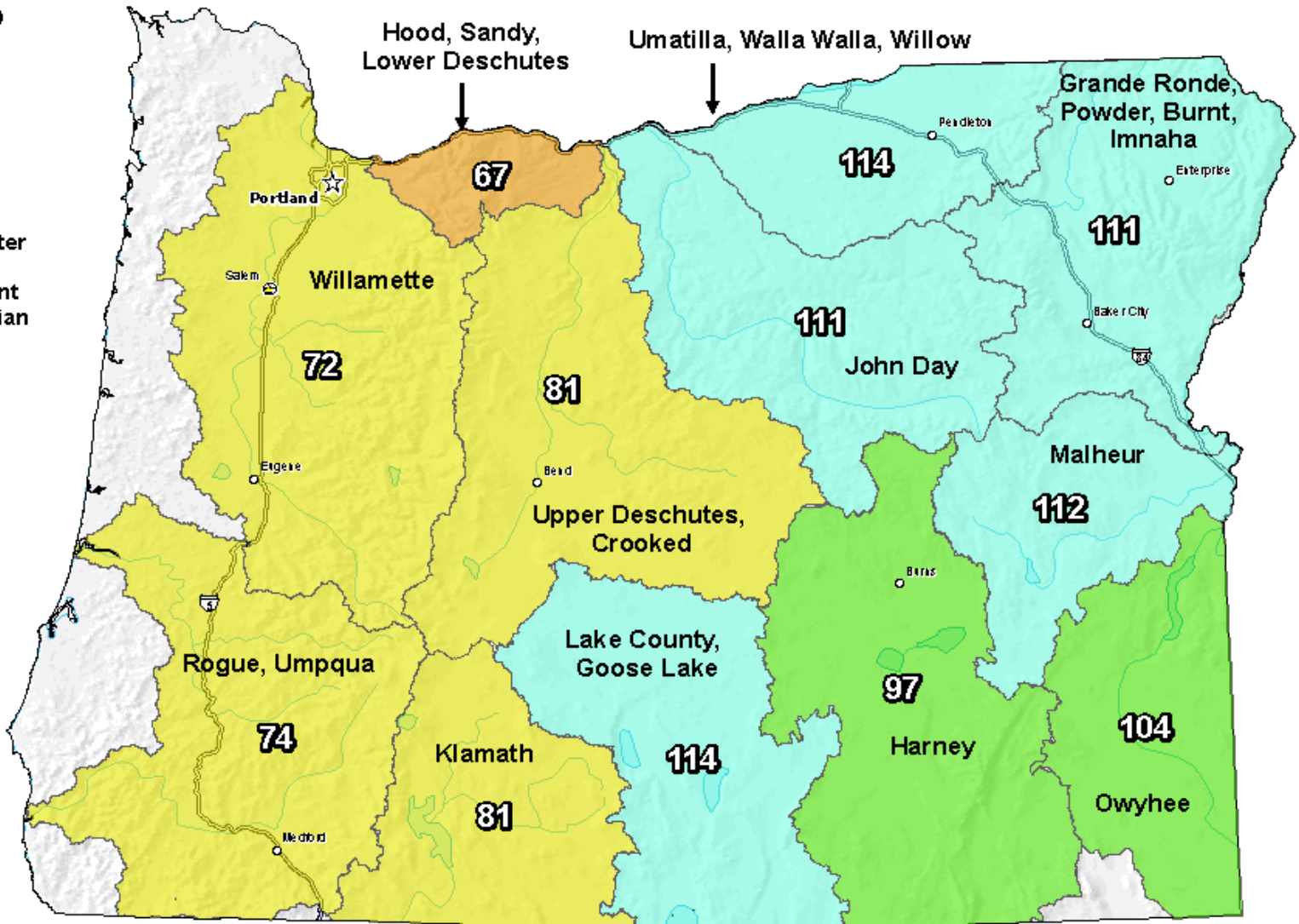
Feb 12, 2019

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 SNOTELs 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).



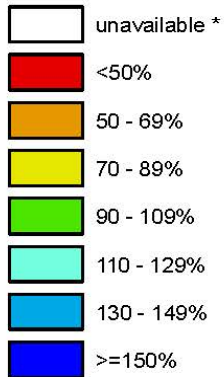
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Statewide SNOTEL Snowpack was 72% of normal

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

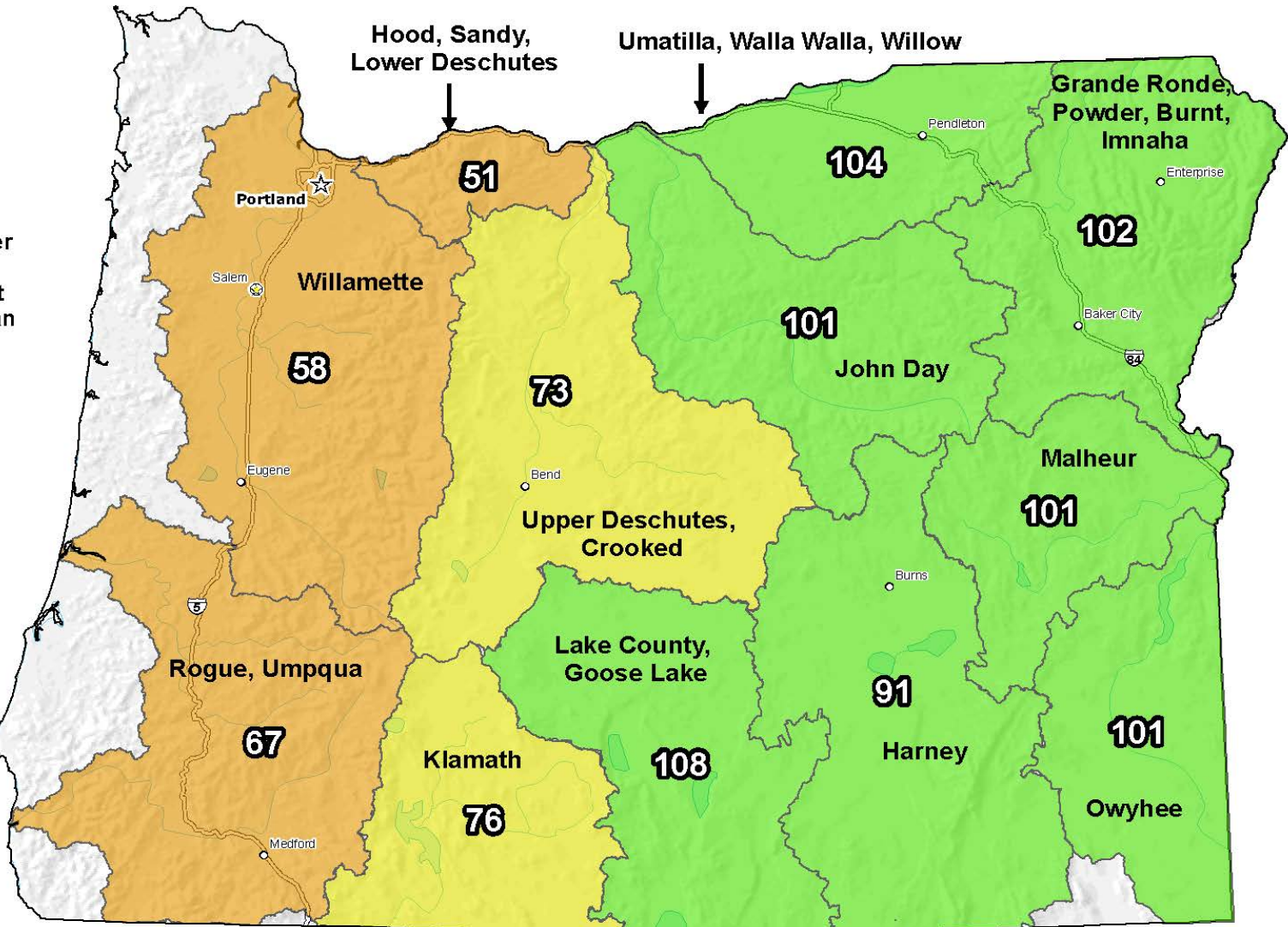
Feb 08, 2019

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

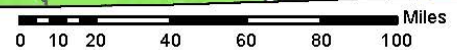


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Subject to Revision



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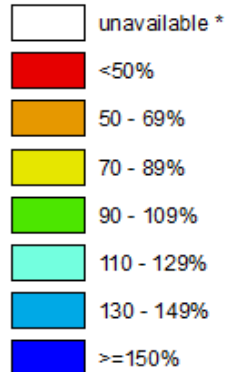
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Statewide SNOTEL Snowpack is 39% of normal (25% of Normal In 2015)

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

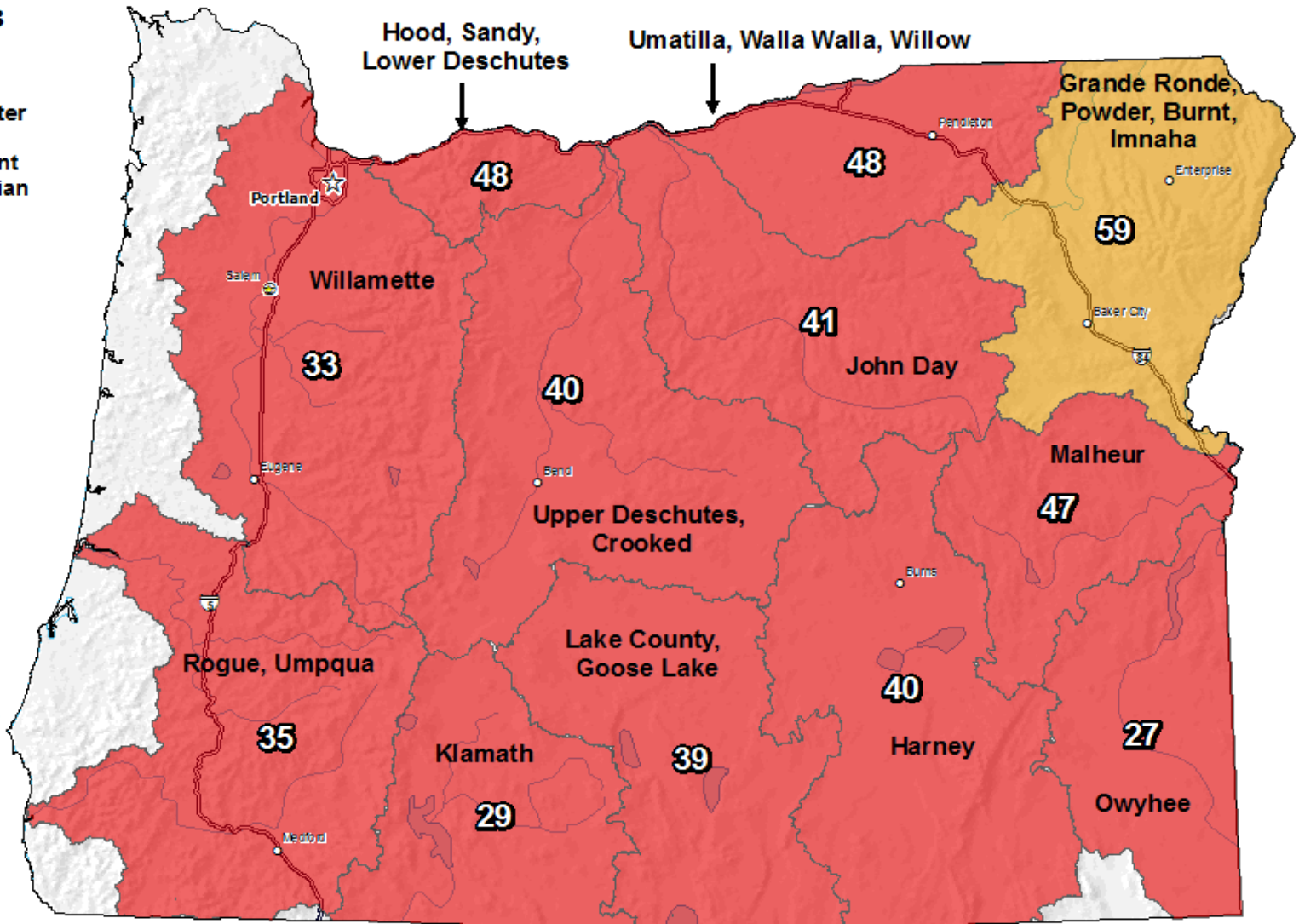
Feb 13, 2018

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

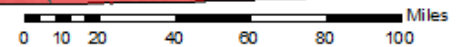


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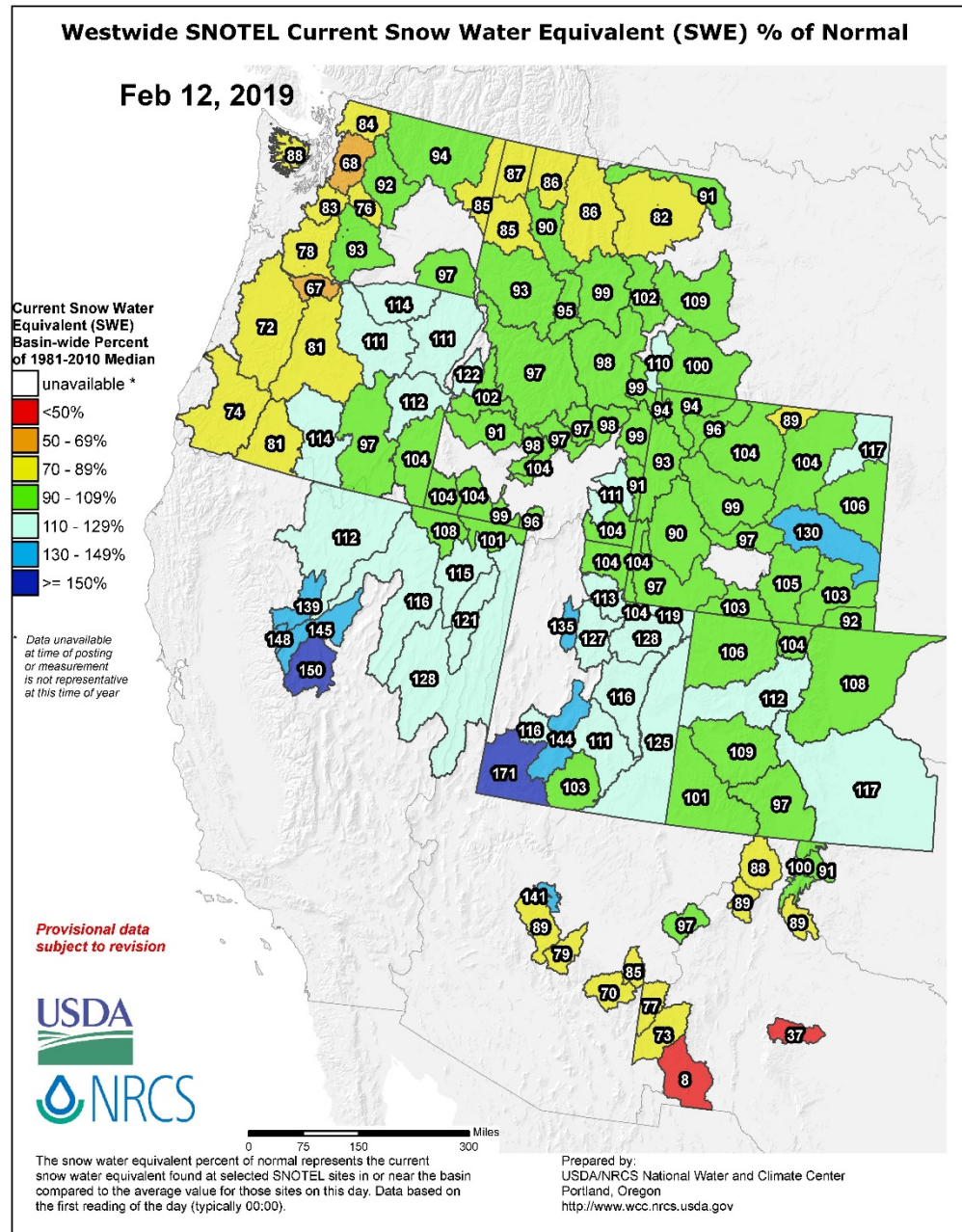


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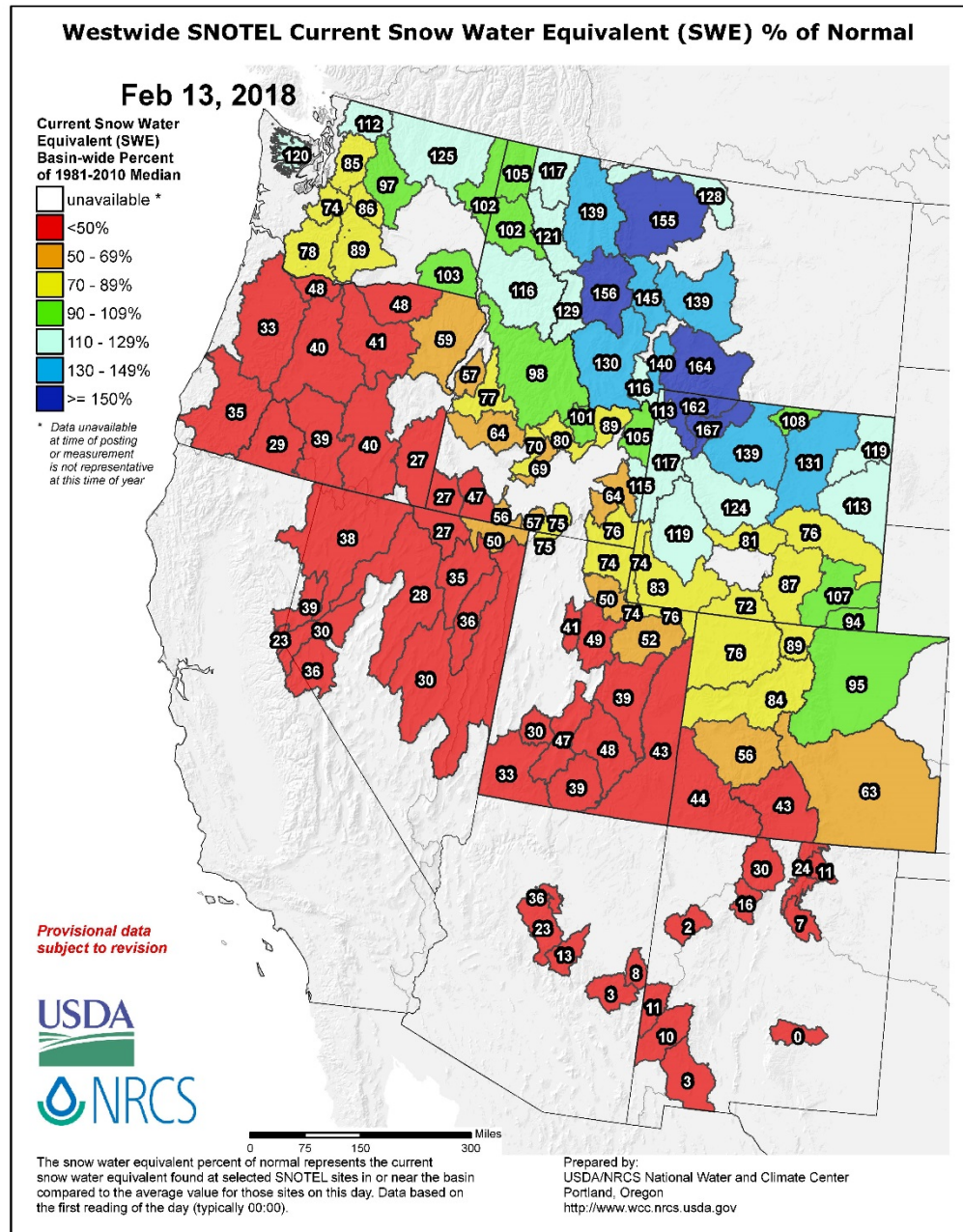


Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

West-Wide Snowpack – February 12, 2019

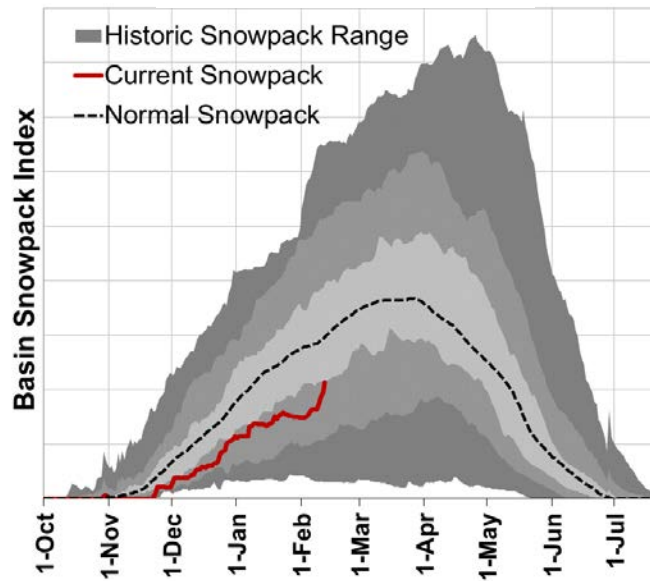


West-Wide Snowpack – February 13, 2018

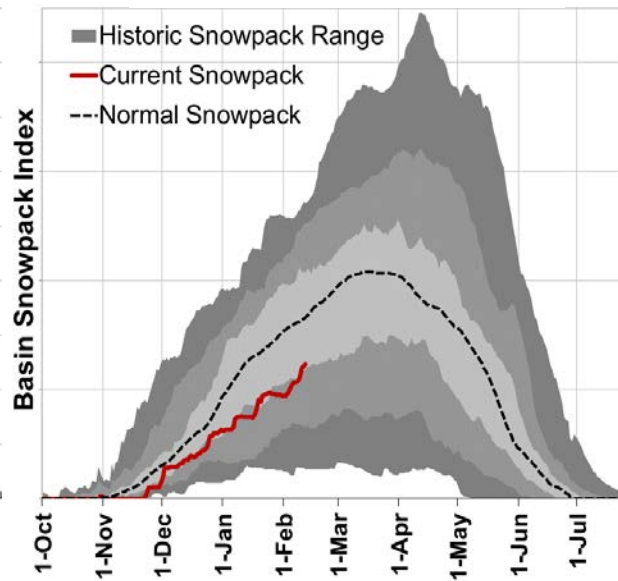


February 12, 2019

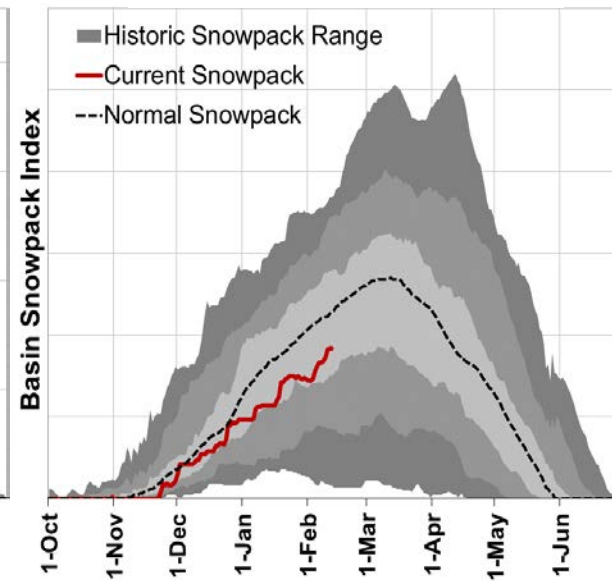
Willamette



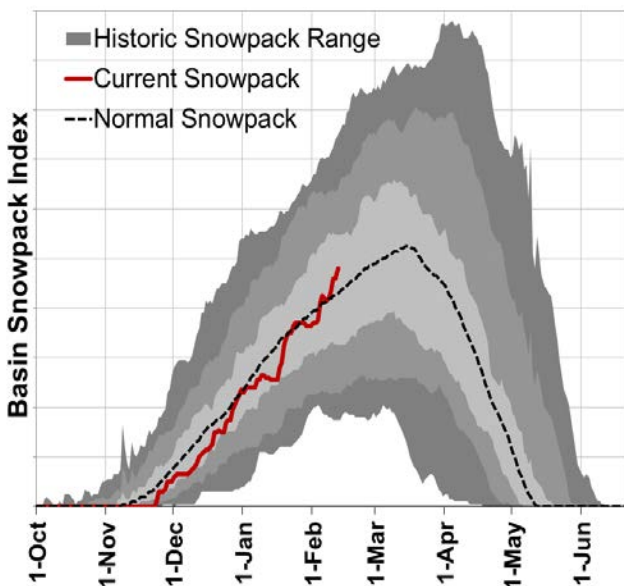
Rogue/Umpqua



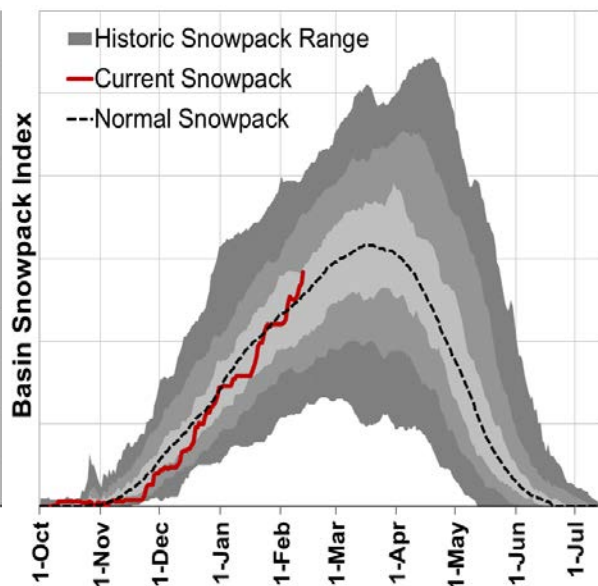
Klamath



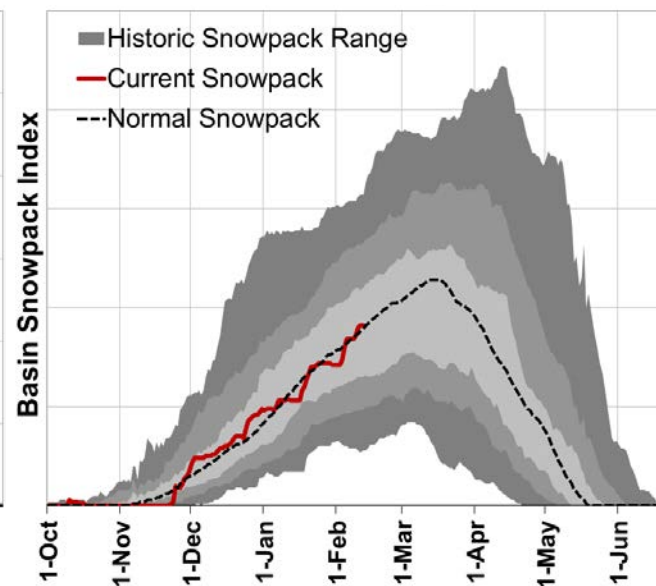
John Day



Grande Ronde/Powder/Burnt

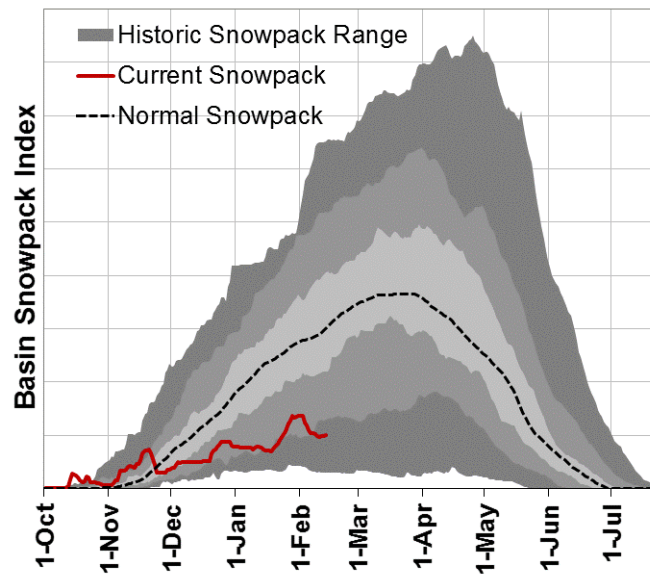


Owyhee/Malheur

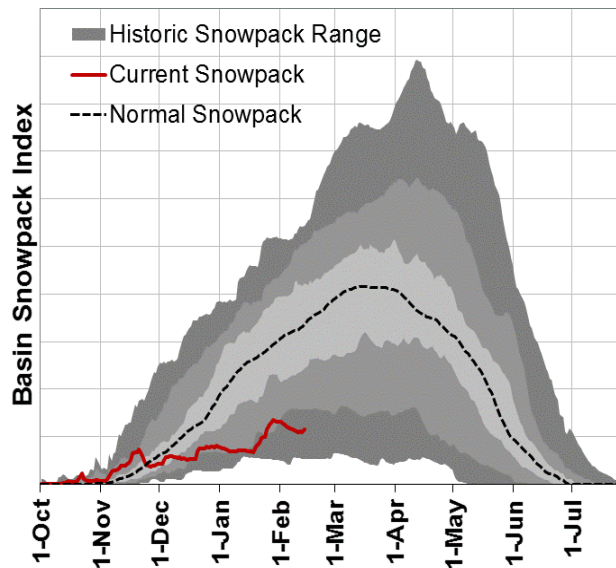


February 13, 2018

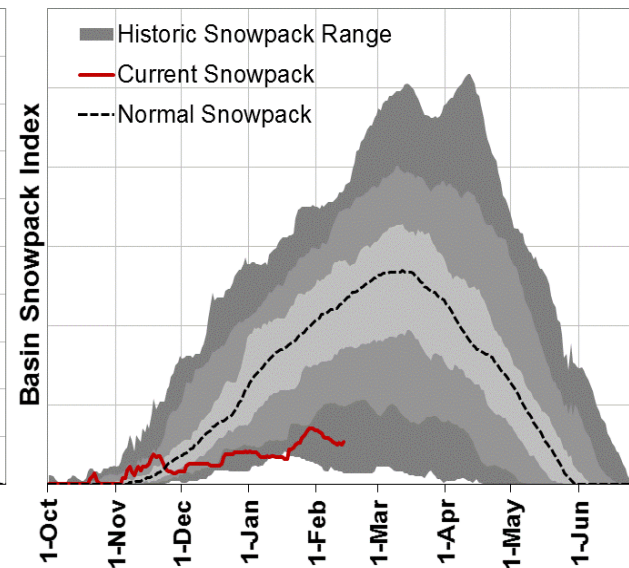
Willamette



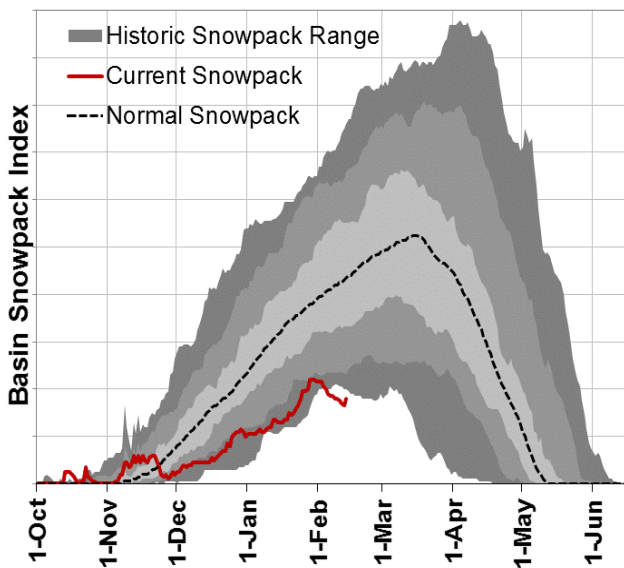
Rogue/Umpqua



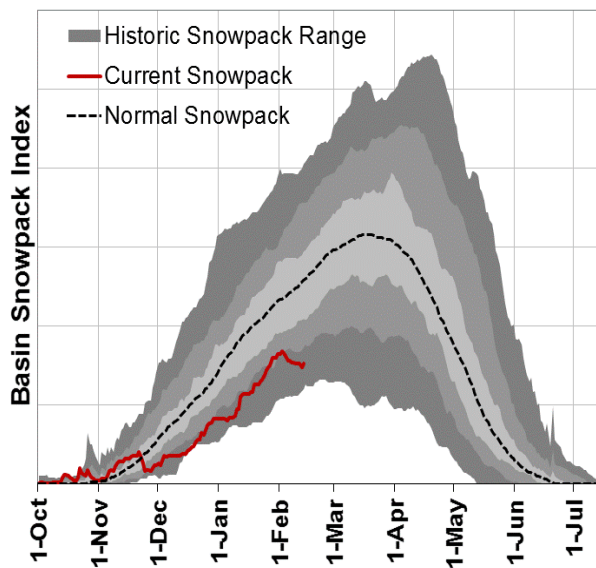
Klamath



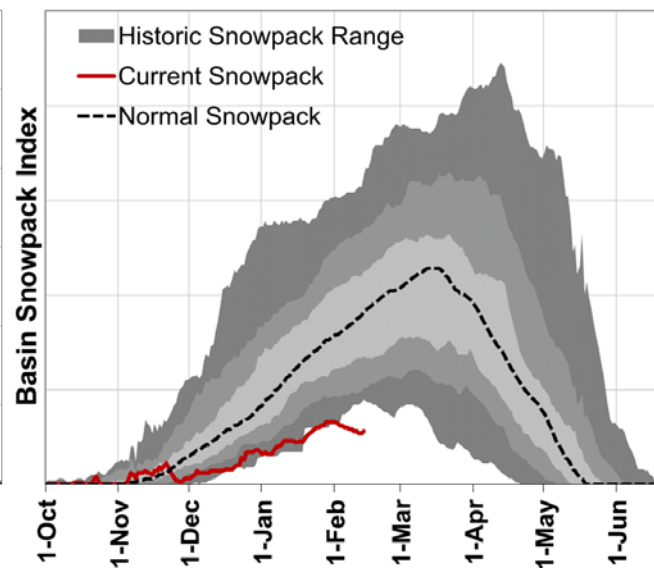
John Day



Grande Ronde/Powder/Burnt



Owyhee/Malheur

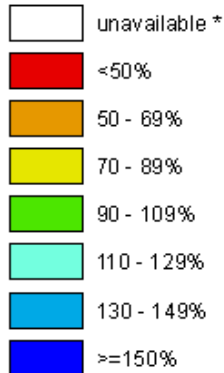


Statewide SNOTEL Precipitation is 84% of normal

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

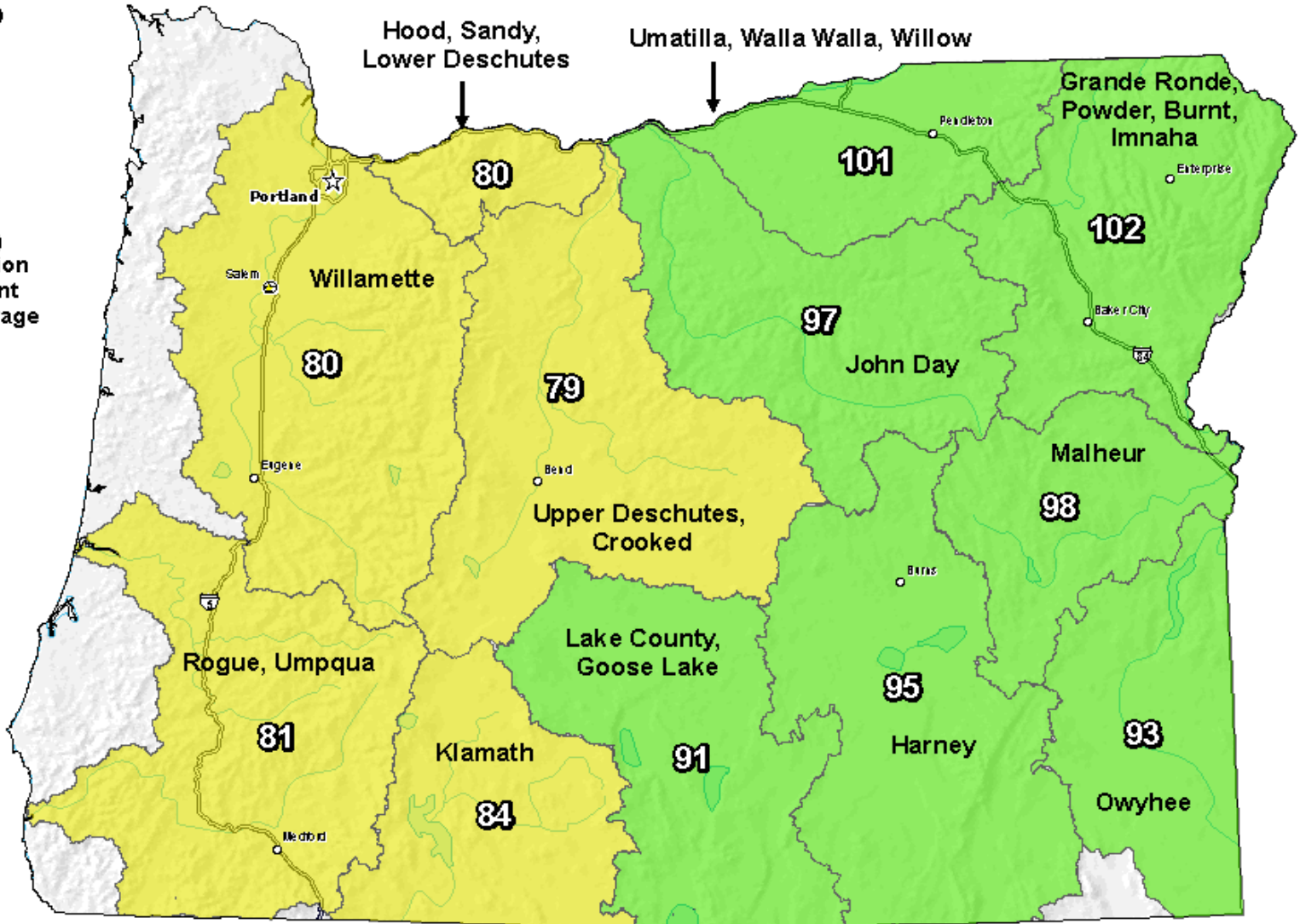
Feb 12, 2019

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

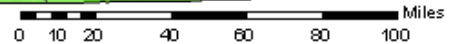


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The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day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



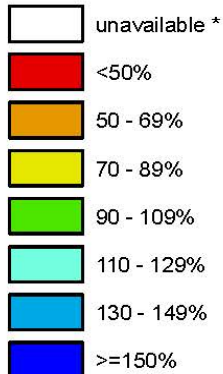
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
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Statewide SNOTEL Precipitation was 80% of normal

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

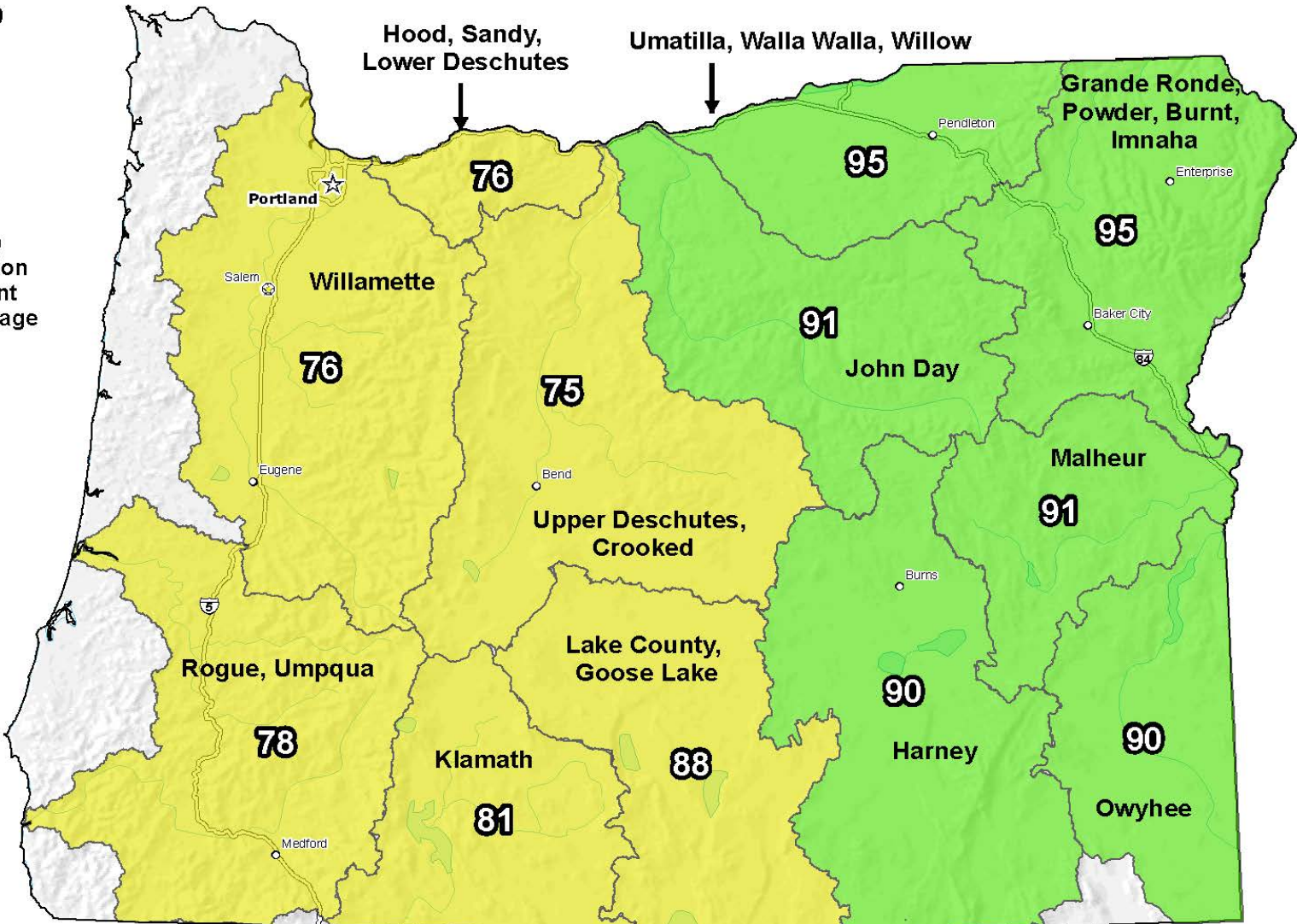
Feb 08, 2019

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



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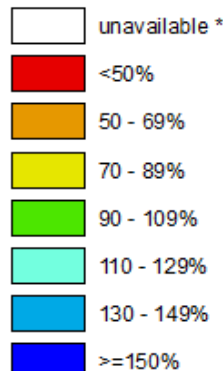
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Statewide SNOTEL Precipitation is 86% of normal (104% of Average in 2015)

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

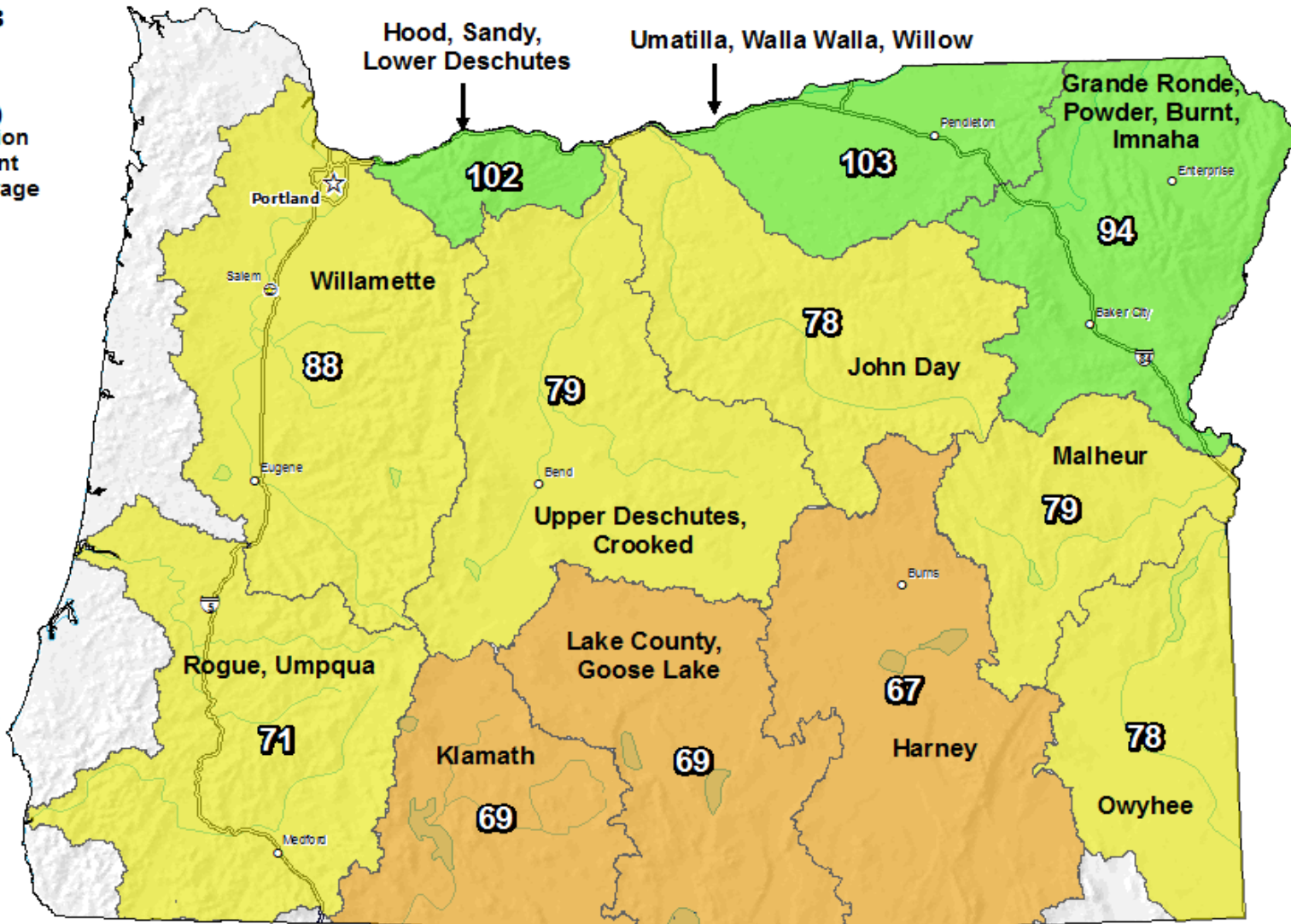
Feb 13, 2018

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



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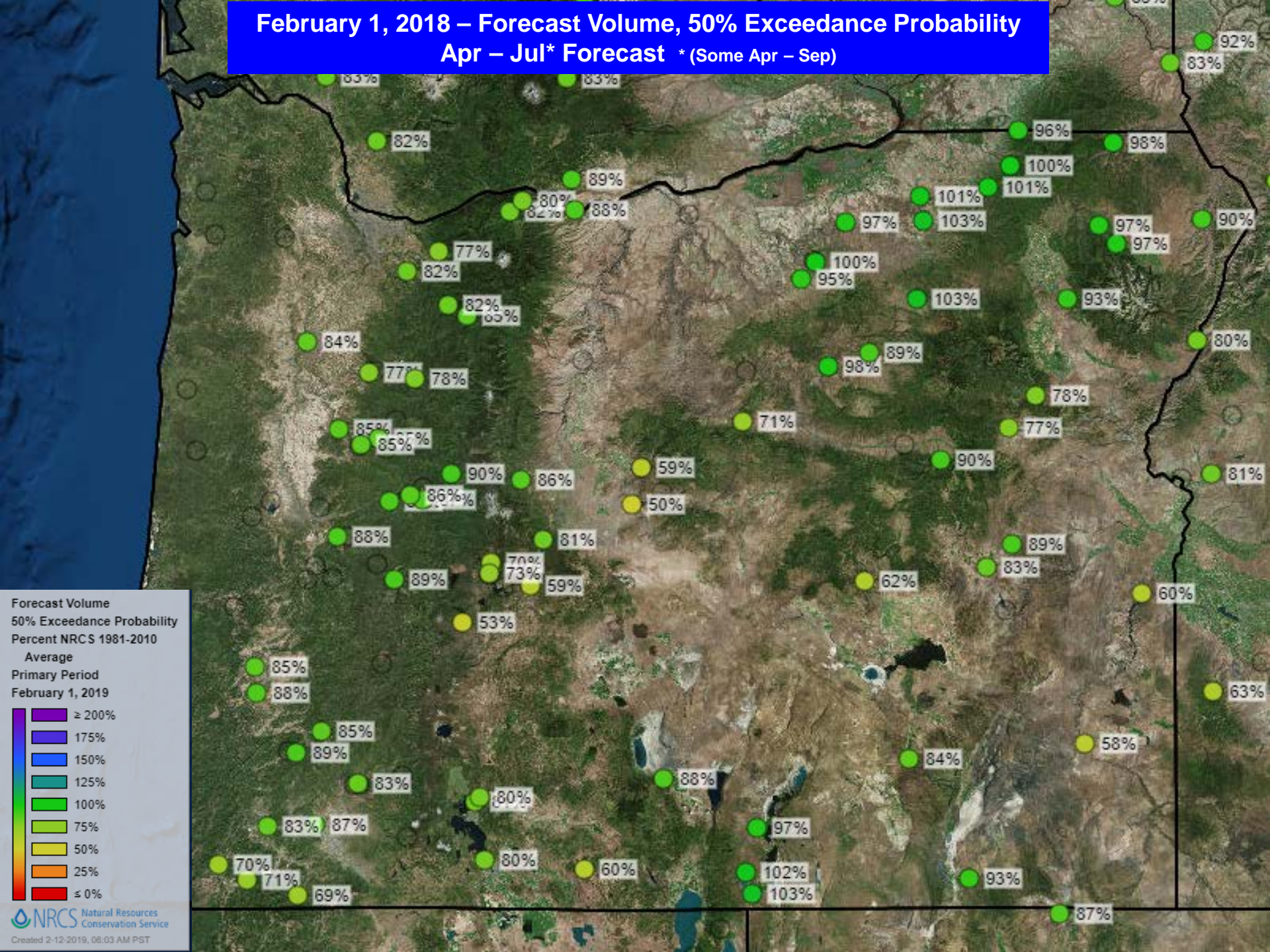


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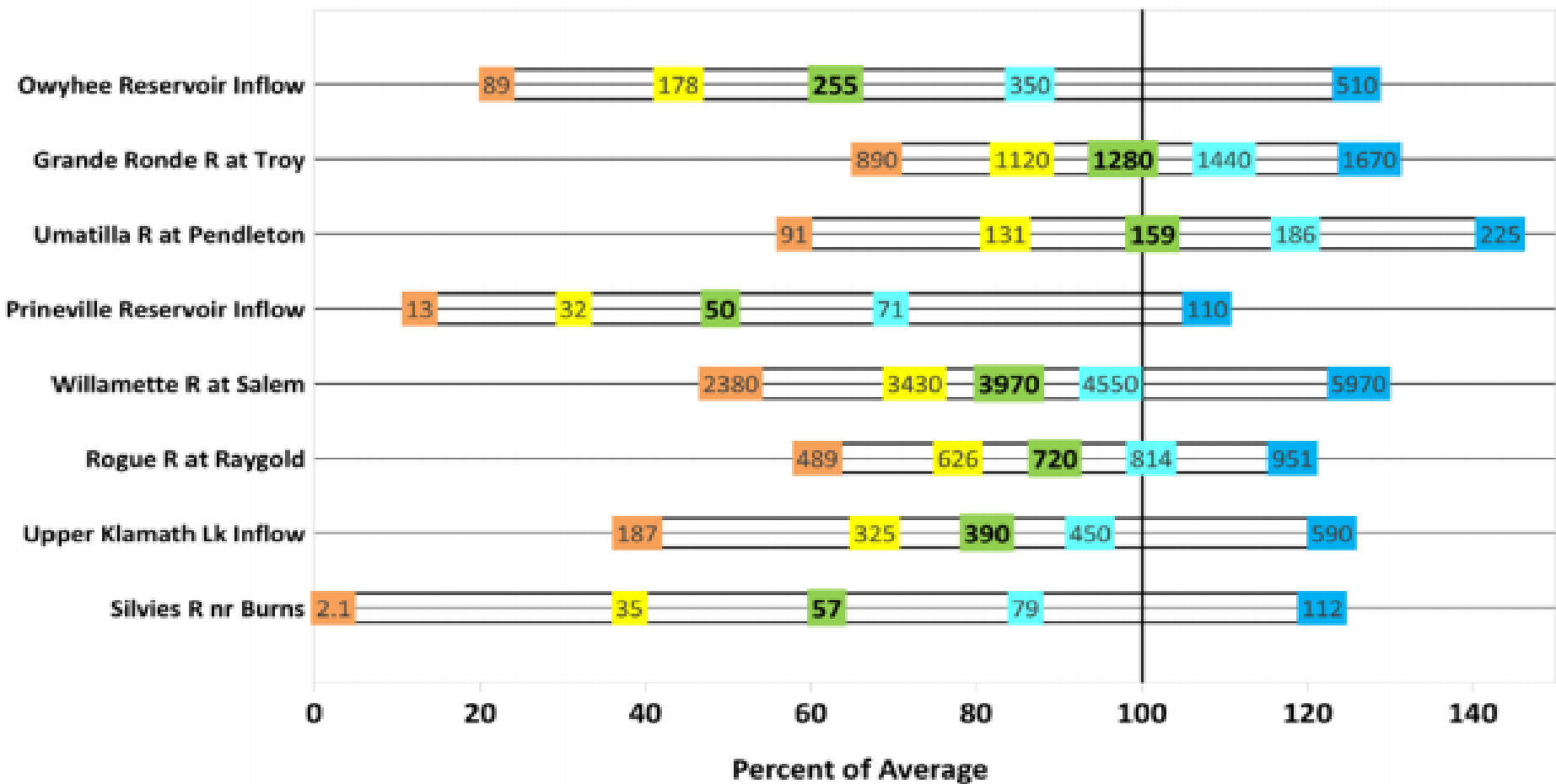
February 1, 2018 – Forecast Volume, 50% Exceedance Probability Apr – Jul* Forecast * (Some Apr – Sep)








February 1, 2019

Summary of Streamflow Forecasts across Oregon

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



Legend: ←-----Drier-----Future Conditions-----Wetter-----→

 90% Exceedance Forecast (KAF) There is a 90% chance that flows will exceed this volume.	 70% Exceedance Forecast (KAF) There is a 70% chance that flows will exceed this volume.	 50% Exceedance Forecast (KAF) There is a 50% chance that flows will exceed this volume.	 30% Exceedance Forecast (KAF) There is a 30% chance that flows will exceed this volume.	 10% Exceedance Forecast (KAF) There is a 10% chance that flows will exceed this volume.
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Thank you

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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.

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02/08/2019
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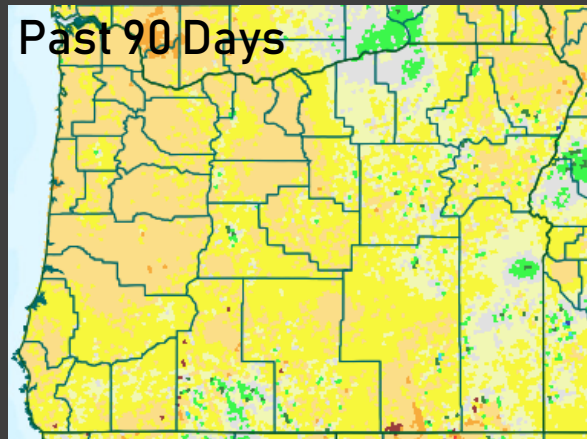
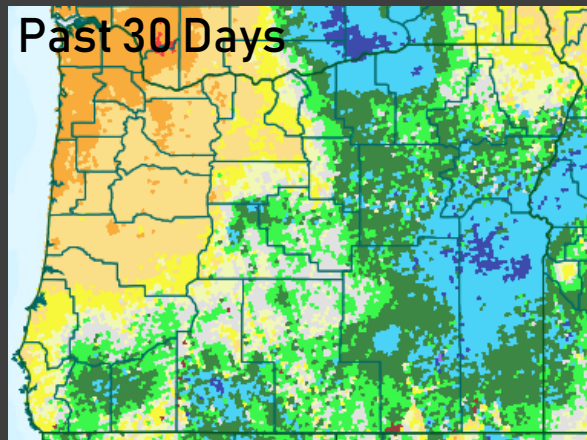
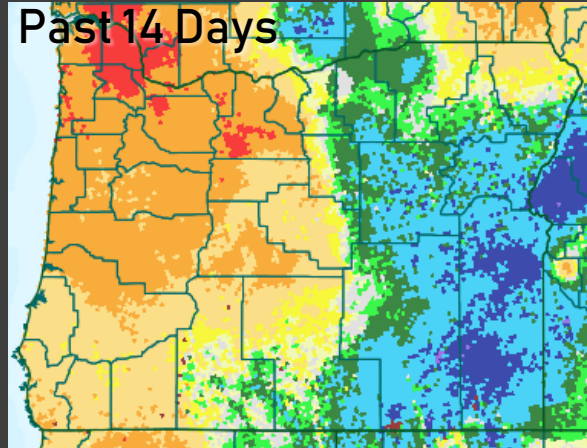
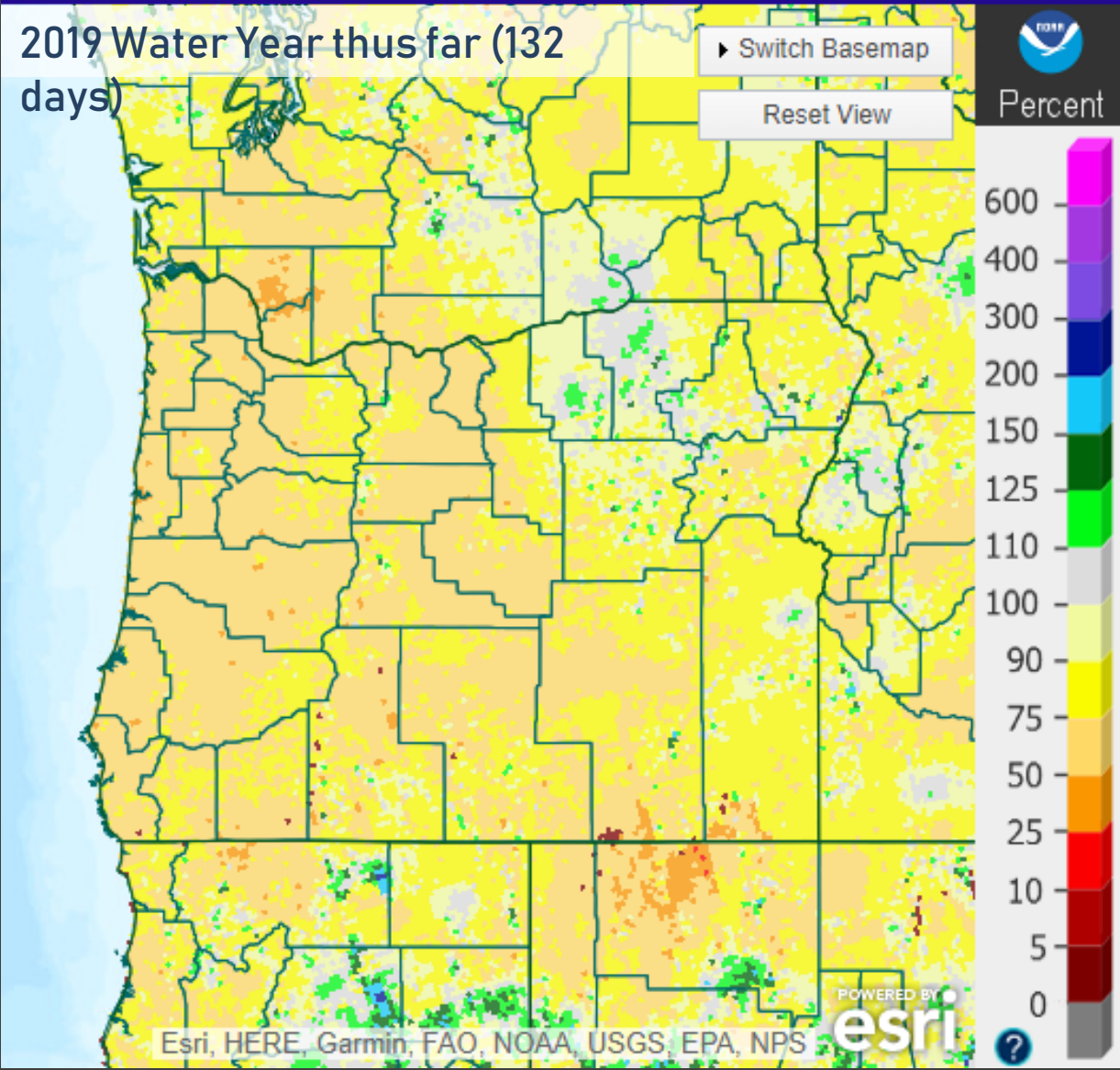
Oregon Water Supply Availability

February 11, 2019
National Weather Service Update

Andy Bryant, NWS Portland Weather Forecast Office
Geoffrey Walters & Steve King, NWS Northwest River Forecast Center



Precipitation % of Average



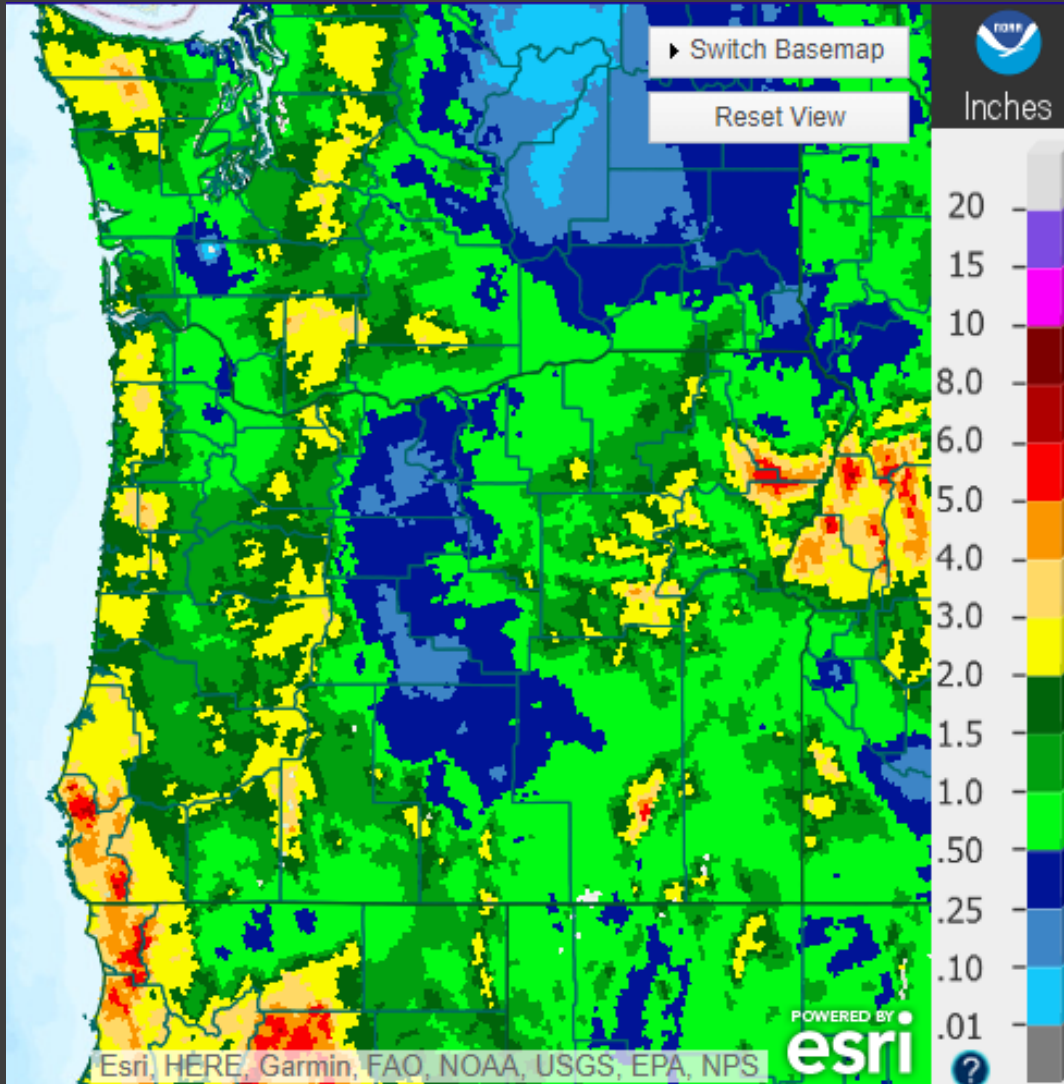
Precipitation Data as of January 7th, 2019

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

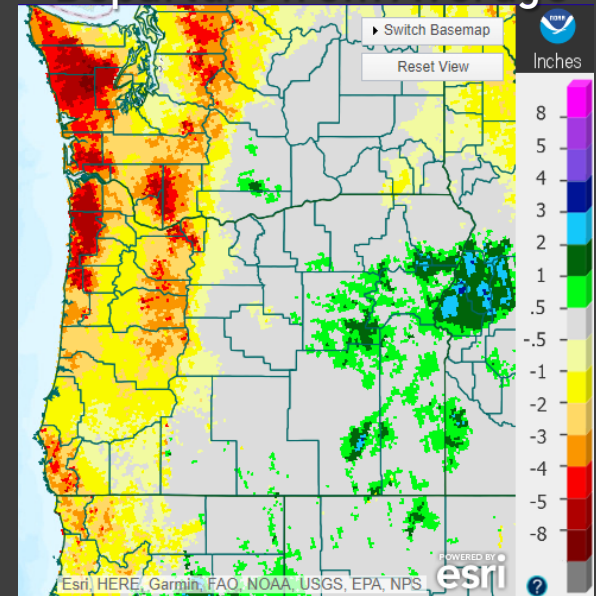


Precipitation Past 30 Days

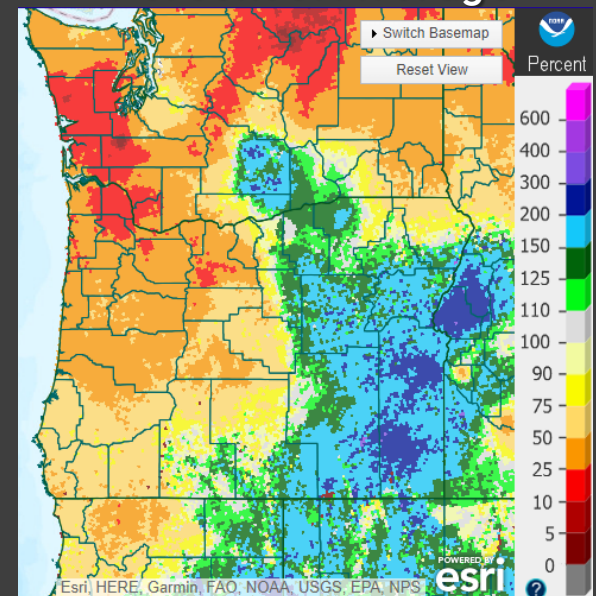
Precipitation Totals



Departure from Average



Percent of Average



Precipitation Data as of February 11, 2019

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



Recent Temperatures

December 2018

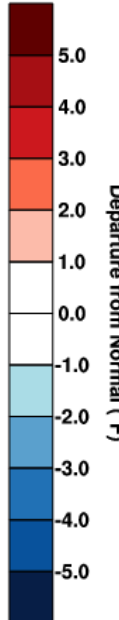
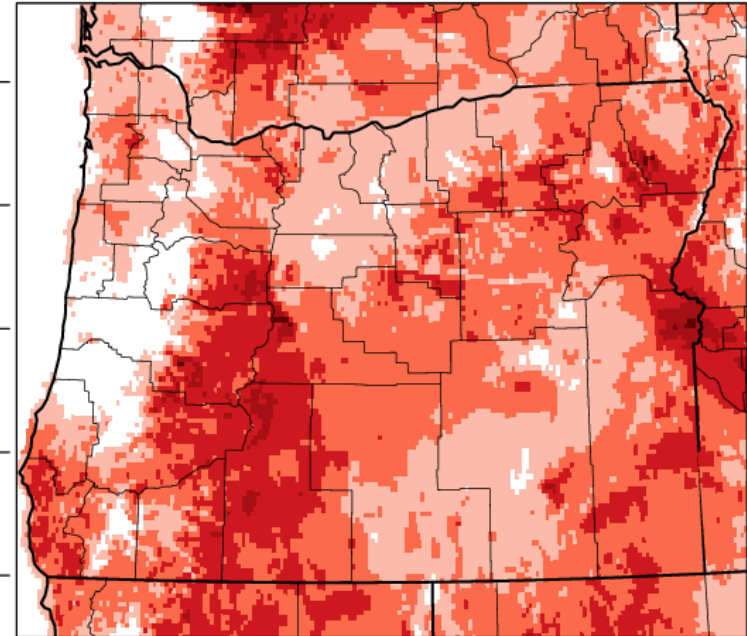
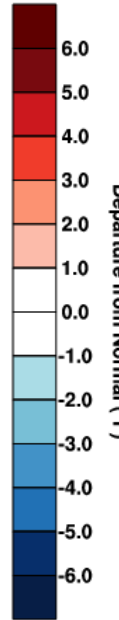
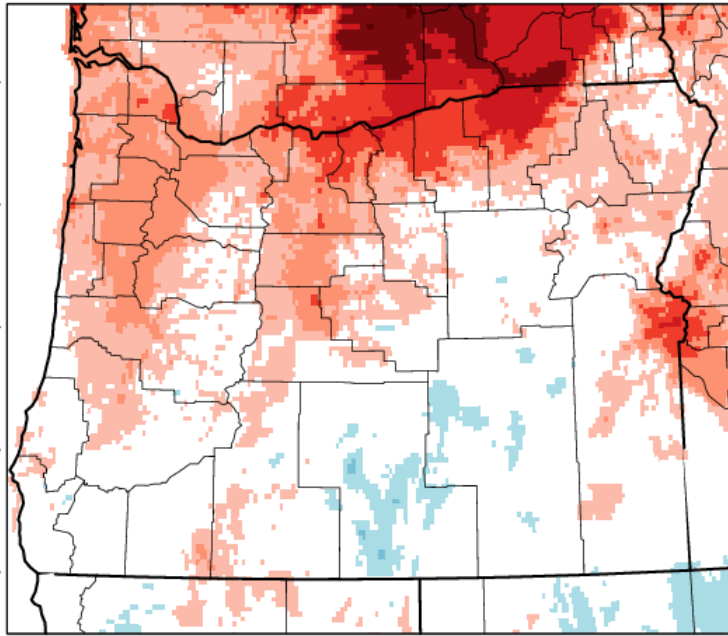
January 2019

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.



Drought Monitor

U.S. Drought Monitor

January 1, 2019

We

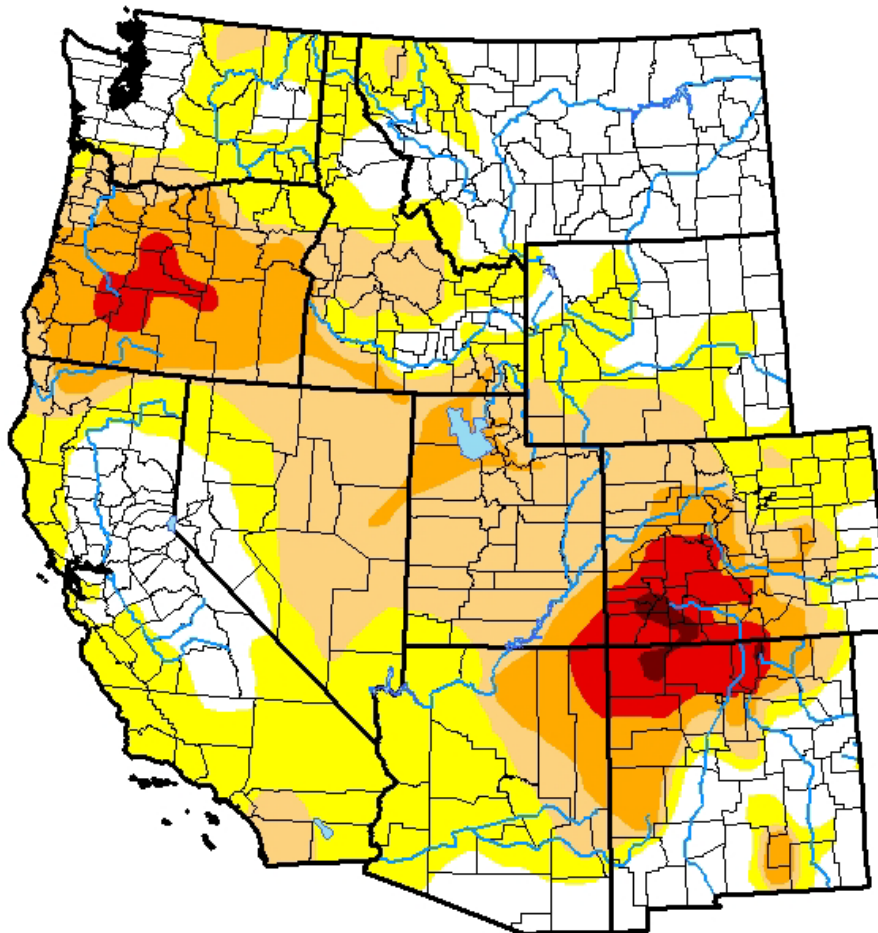
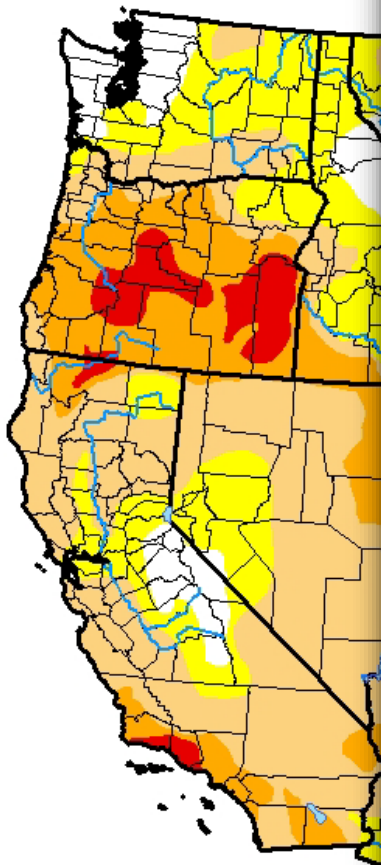
U.S. Drought Monitor

West

February 5, 2019

(Released Thursday, Feb. 7, 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:

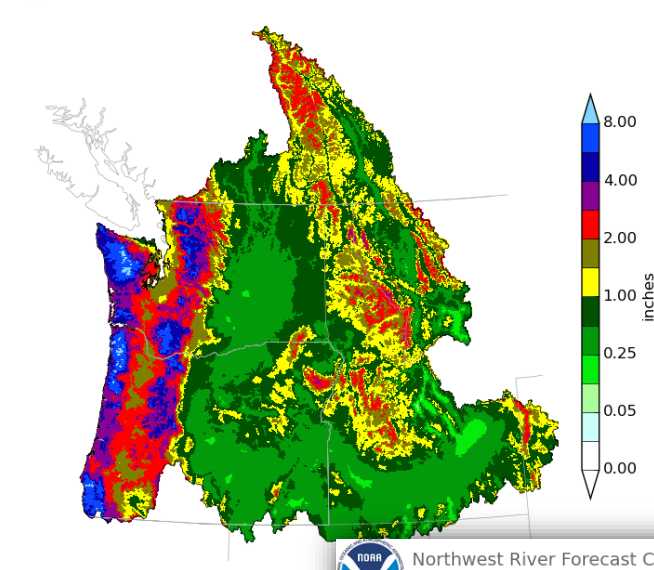
Richard Tinker
CPC/NOAA/NWS/NCEP



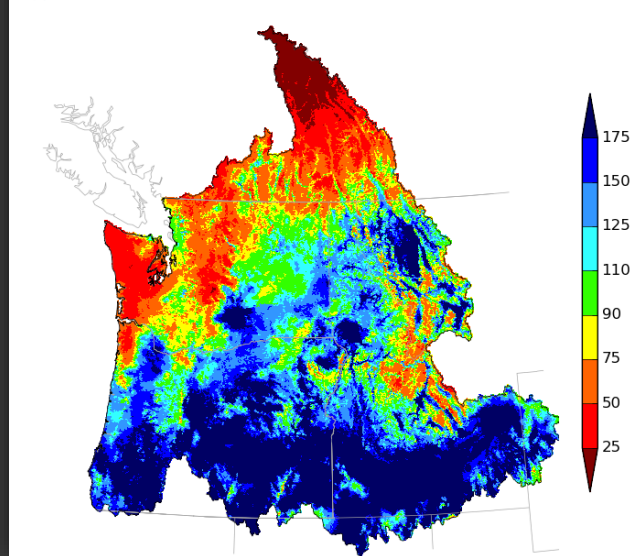


Mid-February Outlook

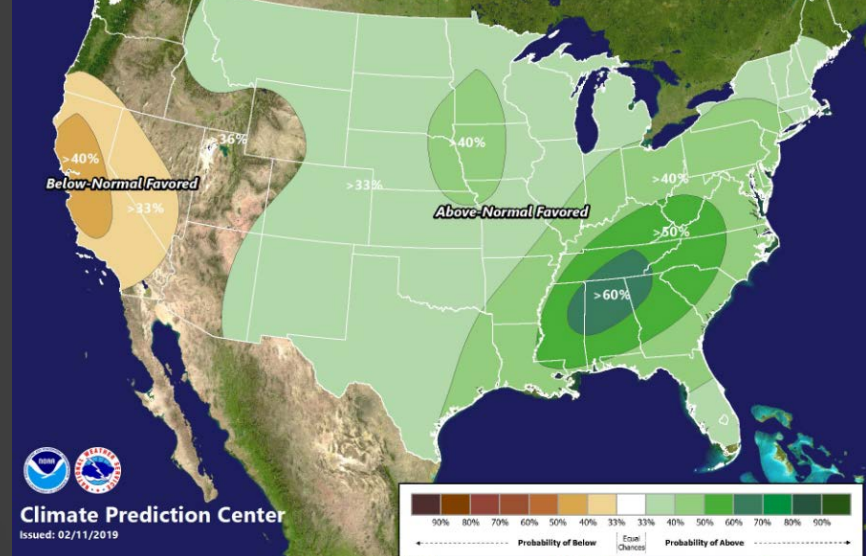
Northwest River Forecast Center
10 Day Precipitation Climatology, Ending 12Z, 02/22/19



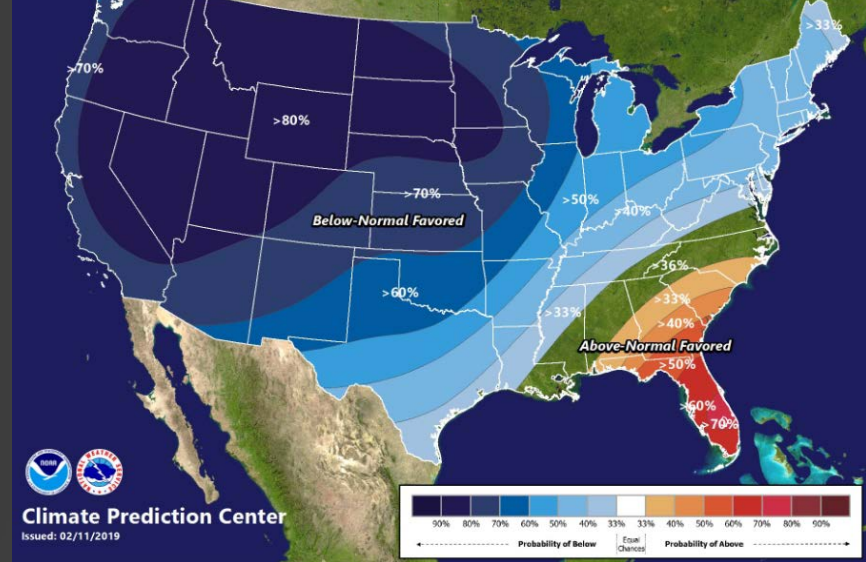
Northwest River Forecast Center
10 Day QPF (Percent of Climatology), Ending 12Z, 02/22/19



8-14 Day Precipitation Outlook
Feb 19 - Feb 25, 2019

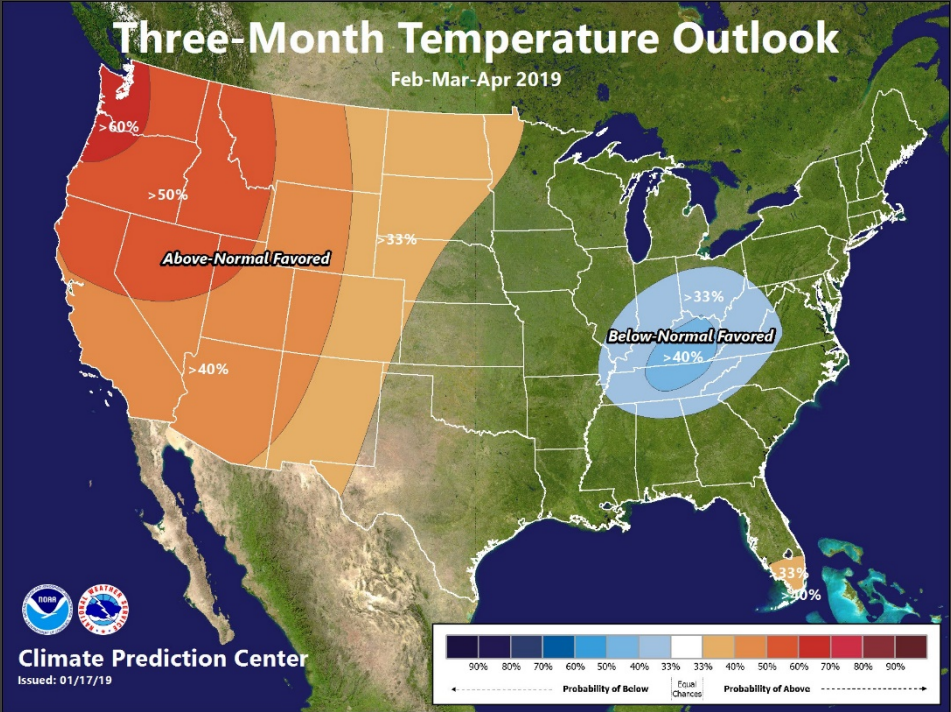
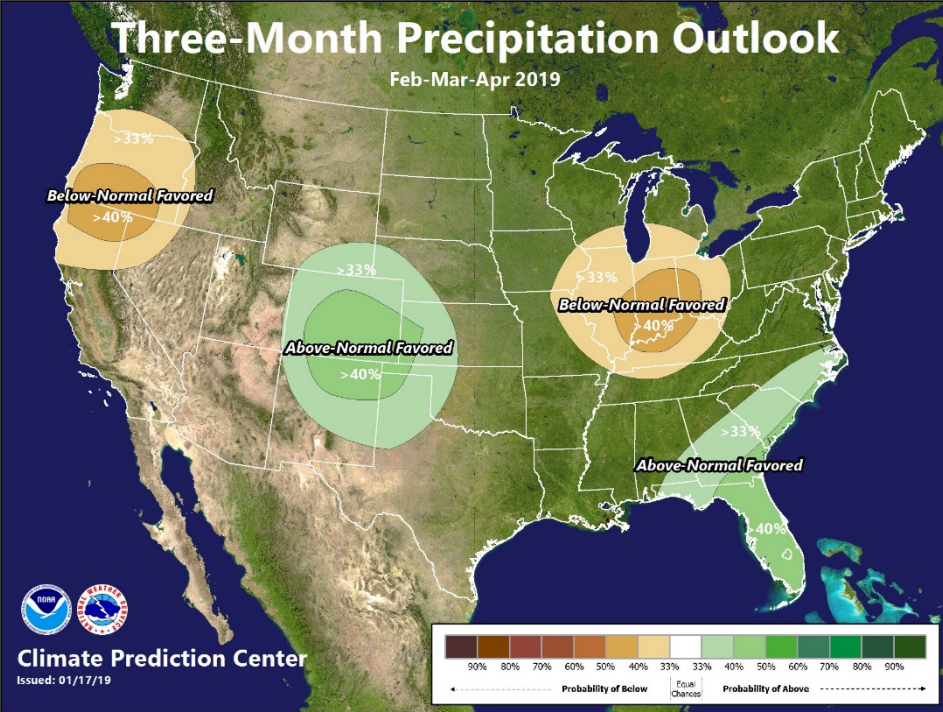


8-14 Day Temperature Outlook
Feb 19 - Feb 25, 2019



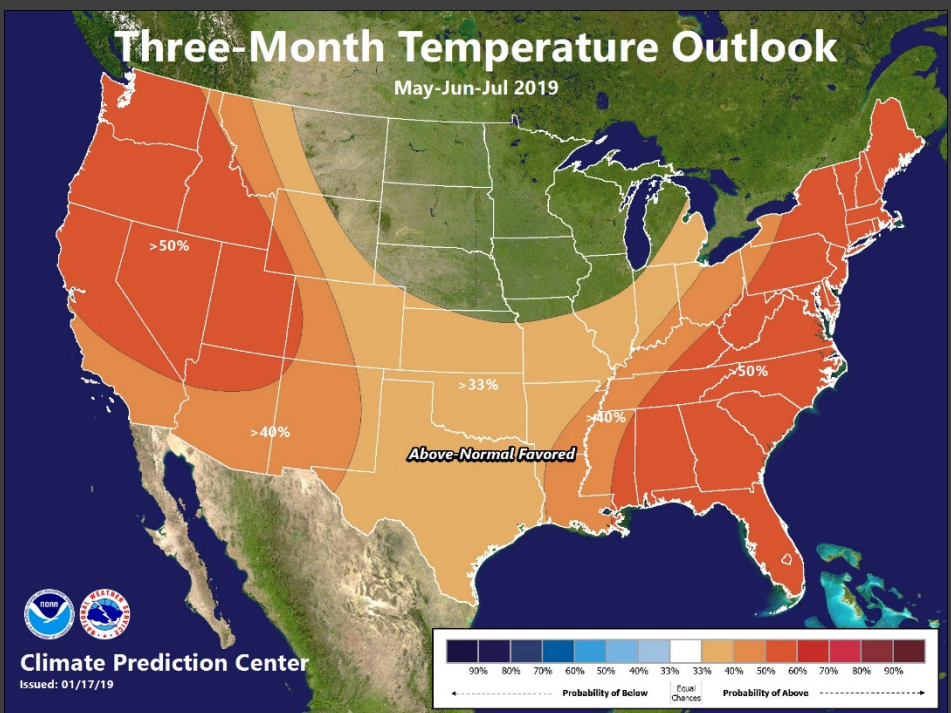
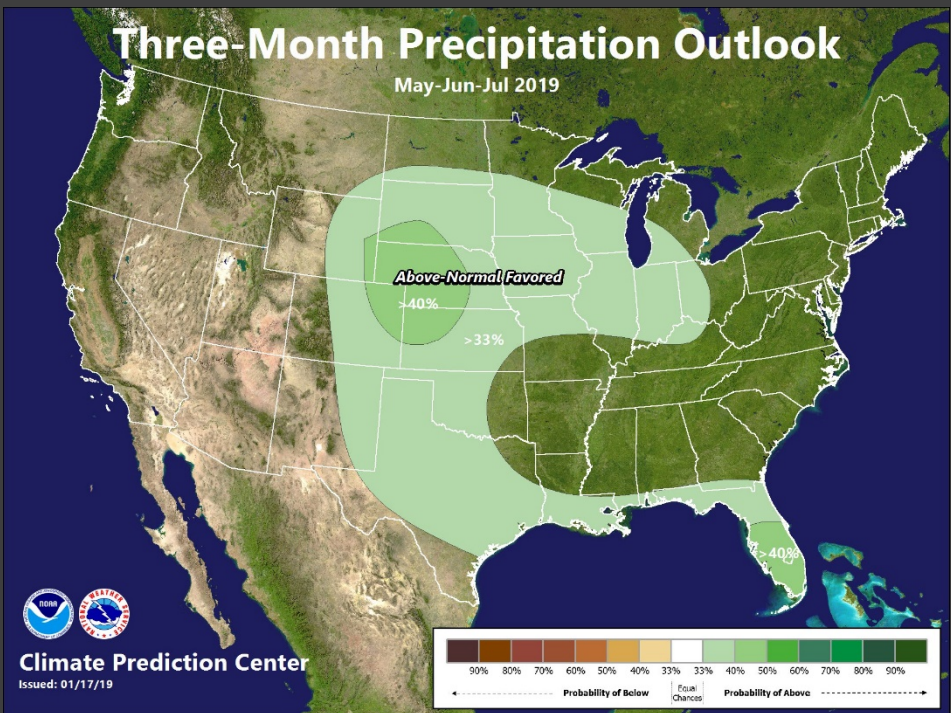


February-March-May Outlook



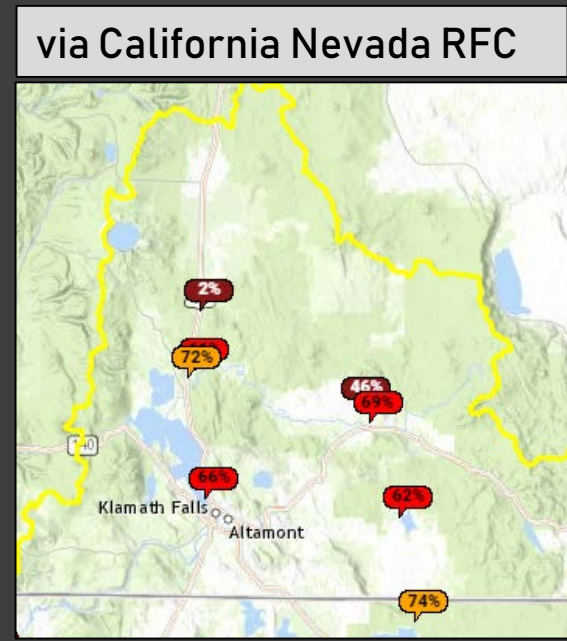
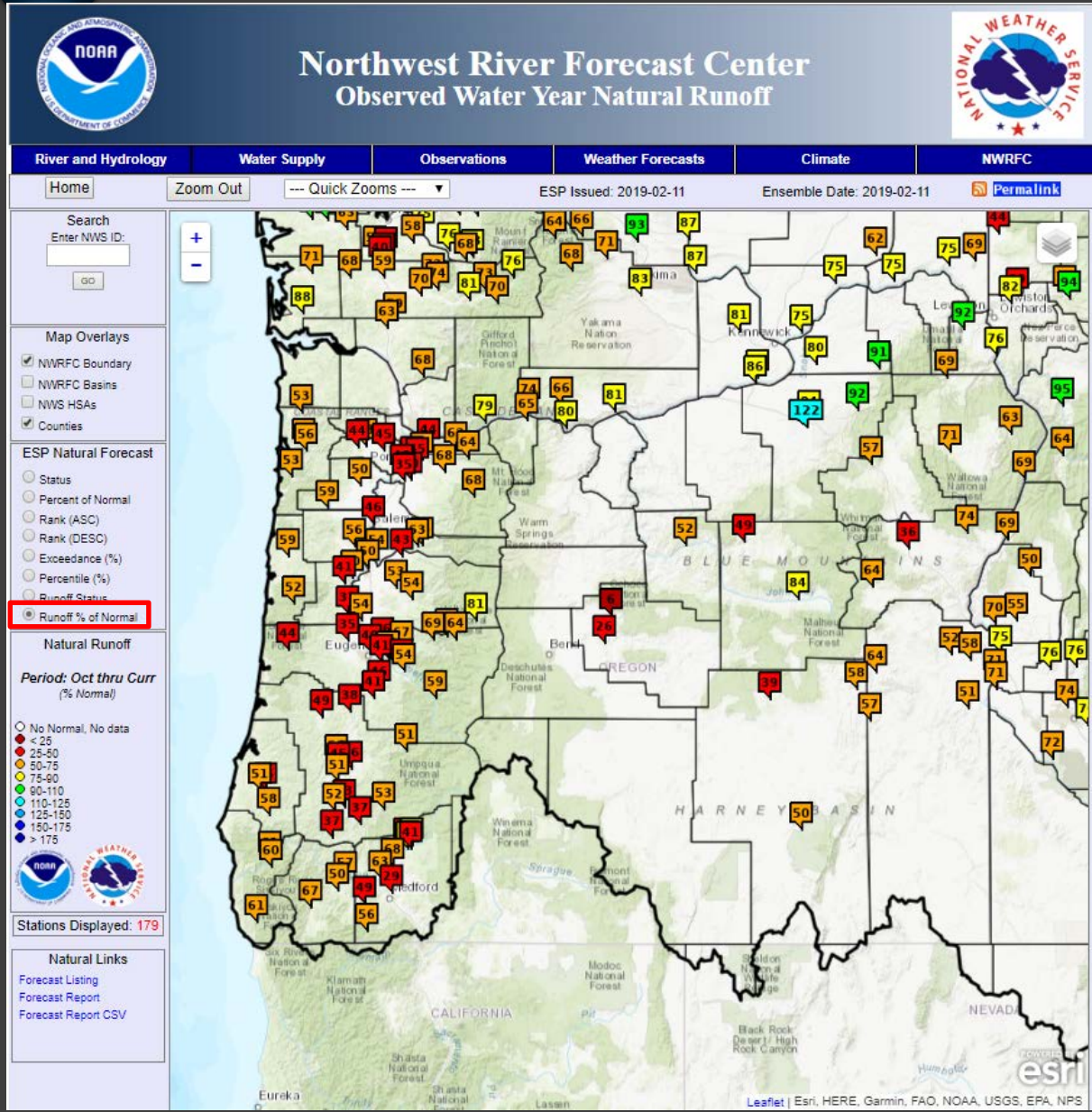


May-June-July Outlook





Observed WY19 Runoff thus far

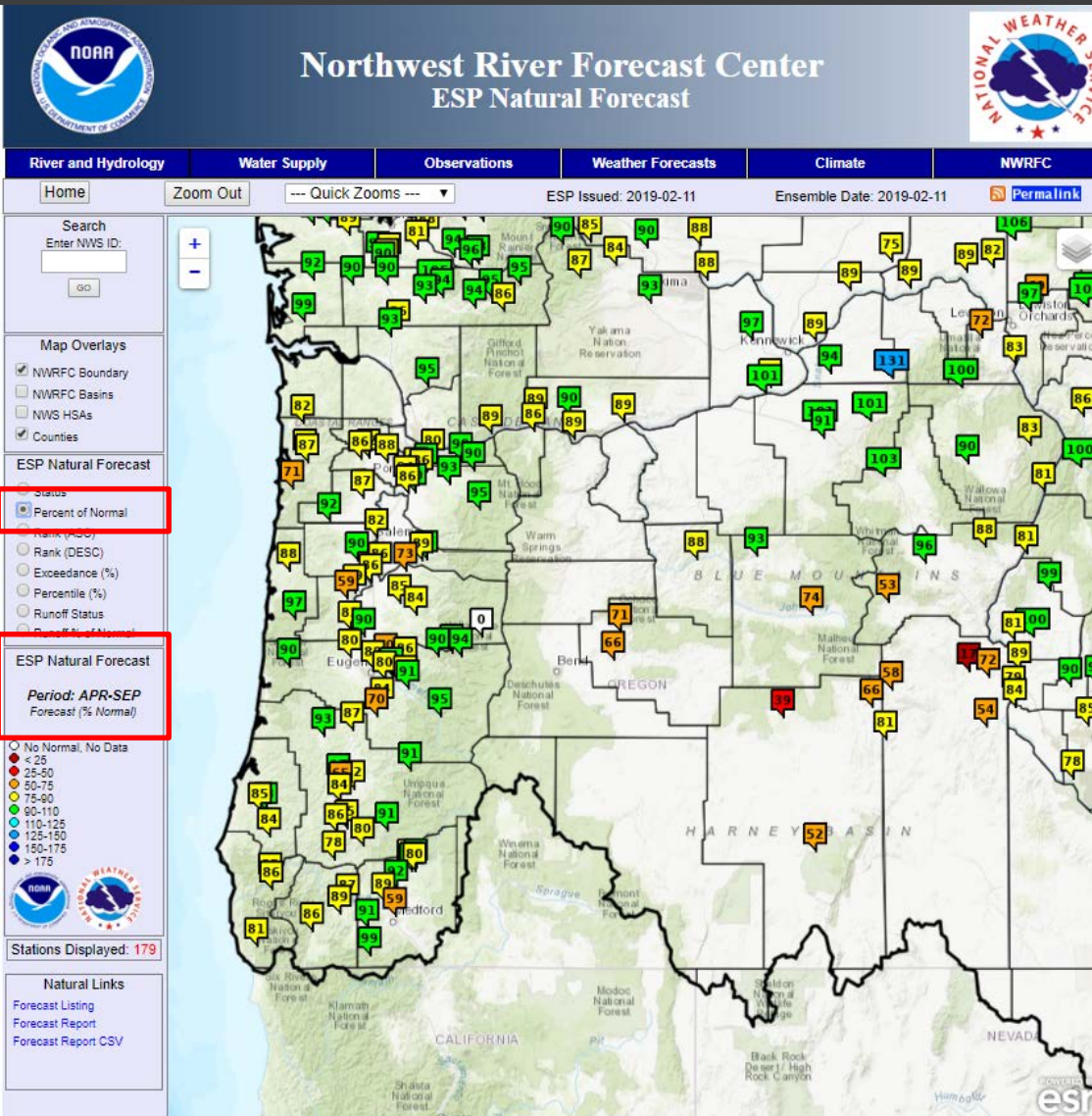


<https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2>

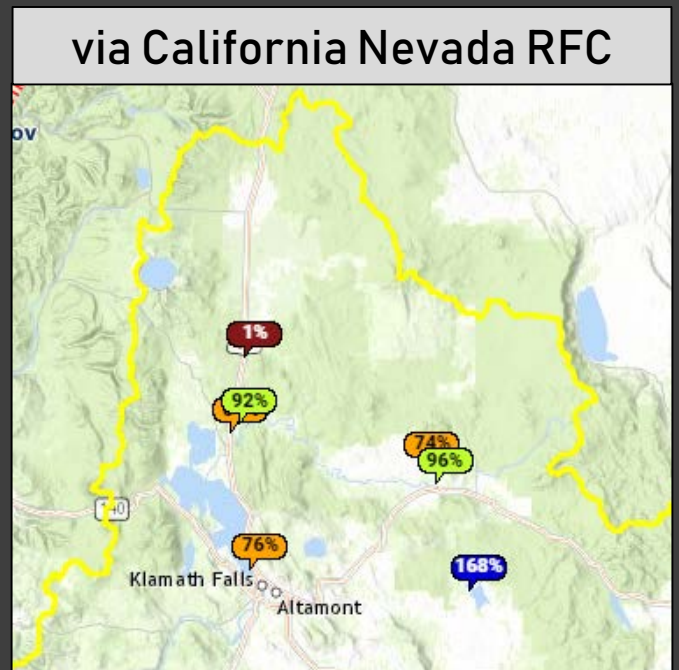
<https://www.cnrfc.noaa.gov/ol.php?product=espWS>



Seasonal Water Supply Forecasts



Forecast runoff volume for April – September 2019



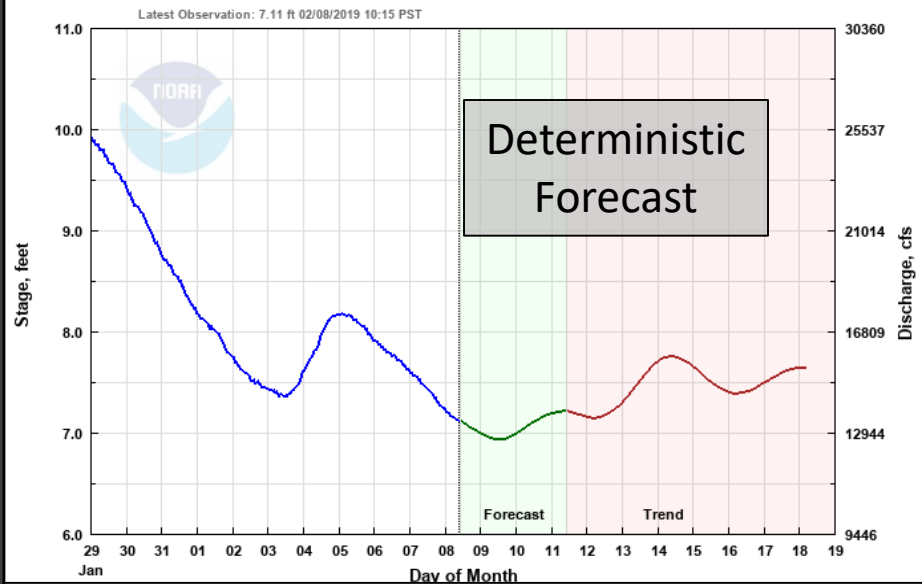
<https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2>

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



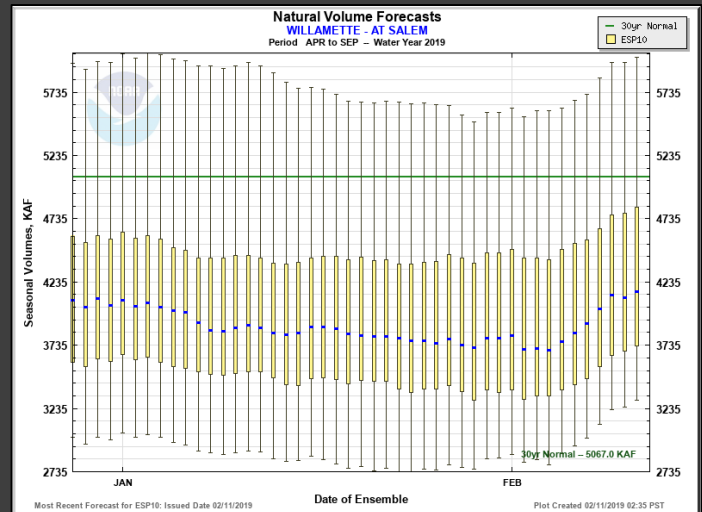
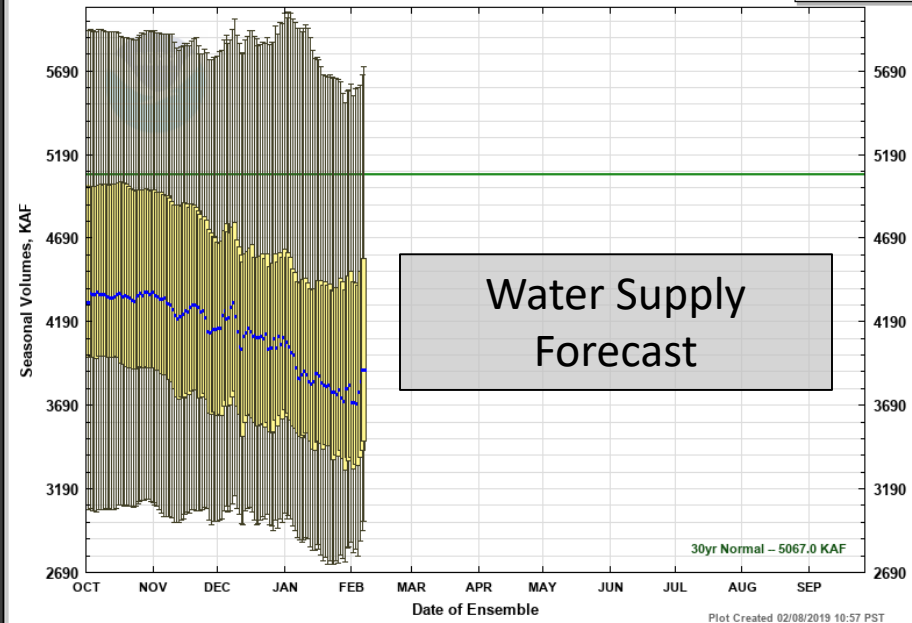
Deterministic vs Water Supply Forecasts

WILLAMETTE - AT SALEM (SLMO3)



- Deterministic Forecast:
 - Streamflow forecast for next 10 days
- Water Supply (WS) Forecast:
 - Parts include: runoff, 10-day deterministic forecast, and ensemble streamflow prediction (ESP)
 - ESP: Uses historical precipitation and temperature (1948-2008) beyond deterministic forecast WS Forecast are issued daily
- Natural Volume Forecast: absence of man made regulation and diversions

Natural Volume Forecasts
WILLAMETTE - AT SALEM
Period APR to SEP - Water Year 2019

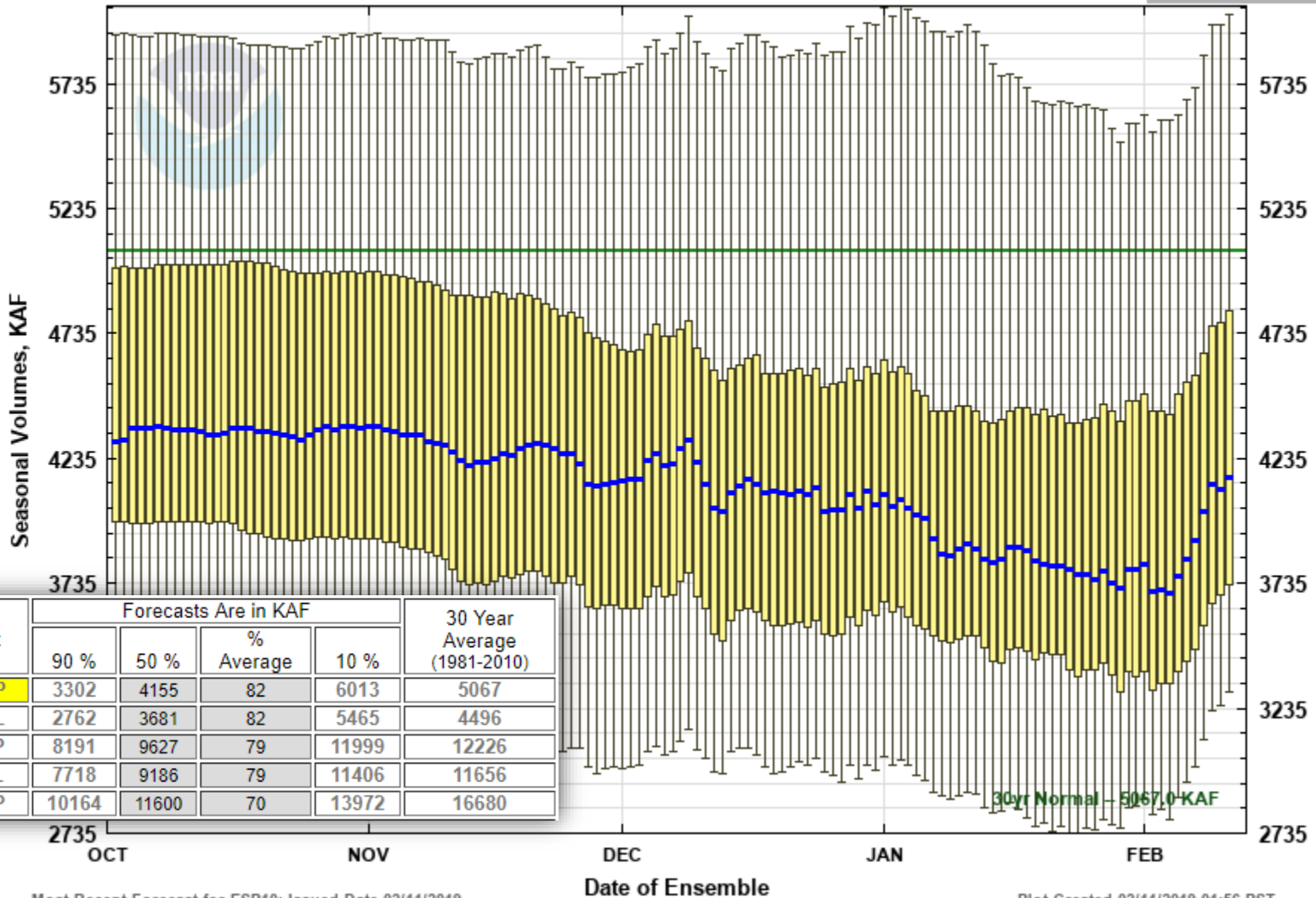




Natural Water Supply Forecasts (1/5)

Natural Volume Forecasts
WILLAMETTE - AT SALEM
 Period APR to SEP - Water Year 2019

— 30yr Normal
 ■ ESP10



Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	3302	4155	82	6013	5067
APR-JUL	2762	3681	82	5465	4496
JAN-SEP	8191	9627	79	11999	12226
JAN-JUL	7718	9186	79	11406	11656
OCT-SEP	10164	11600	70	13972	16680

Most Recent Forecast for ESP10: Issued Date 02/11/2019

Plot Created 02/11/2019 01:56 PST



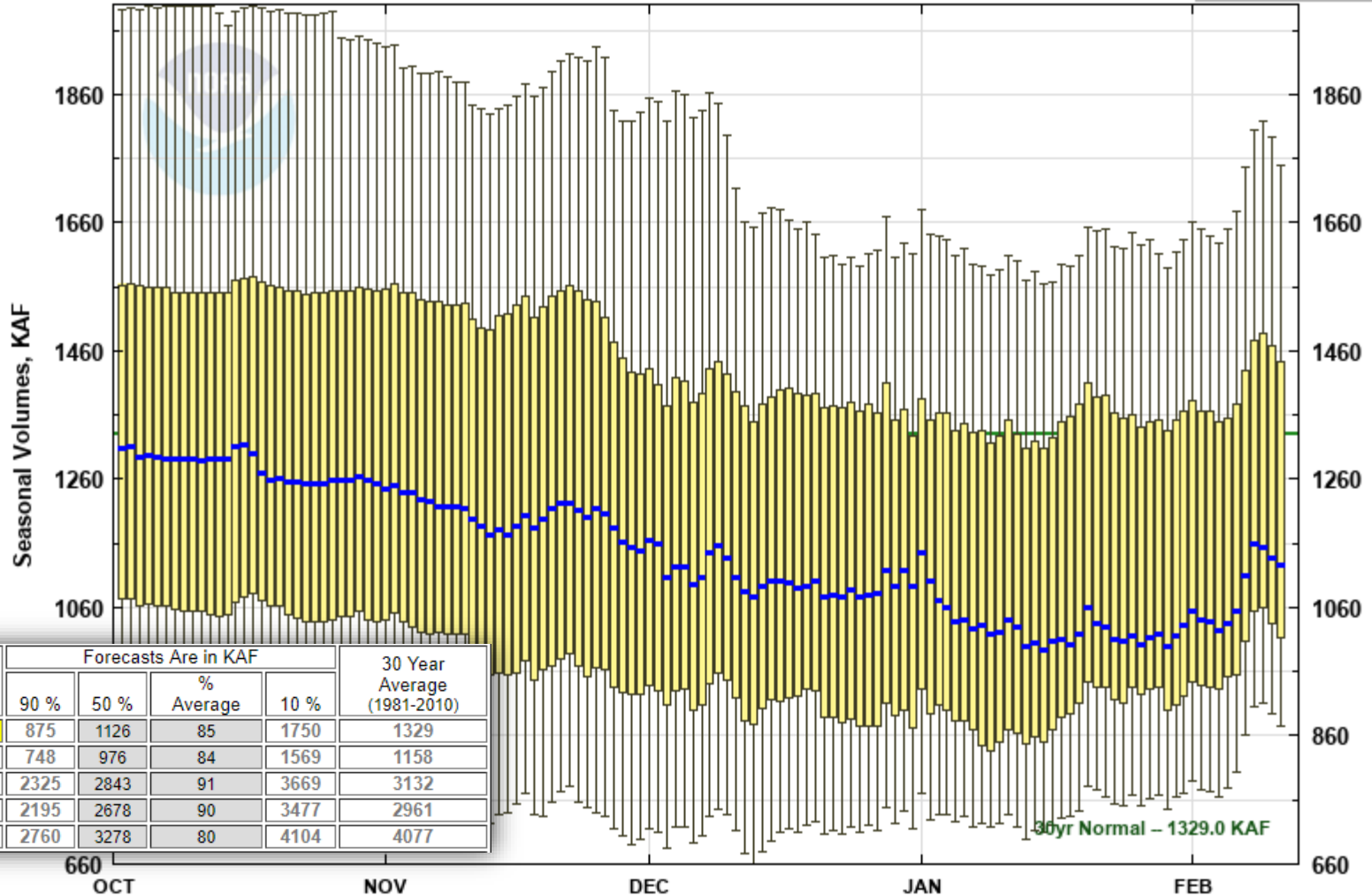
Natural Water Supply Forecasts (2/5)

Natural Volume Forecasts

ROGUE - NEAR AGNES

Period APR to SEP – Water Year 2019

— 30yr Normal
 ■ ESP10



Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	875	1126	85	1750	1329
APR-JUL	748	976	84	1569	1158
JAN-SEP	2325	2843	91	3669	3132
JAN-JUL	2195	2678	90	3477	2961
OCT-SEP	2760	3278	80	4104	4077

Most Recent Forecast for ESP10: Issued Date 02/11/2019

Plot Created 02/11/2019 02:00 PST



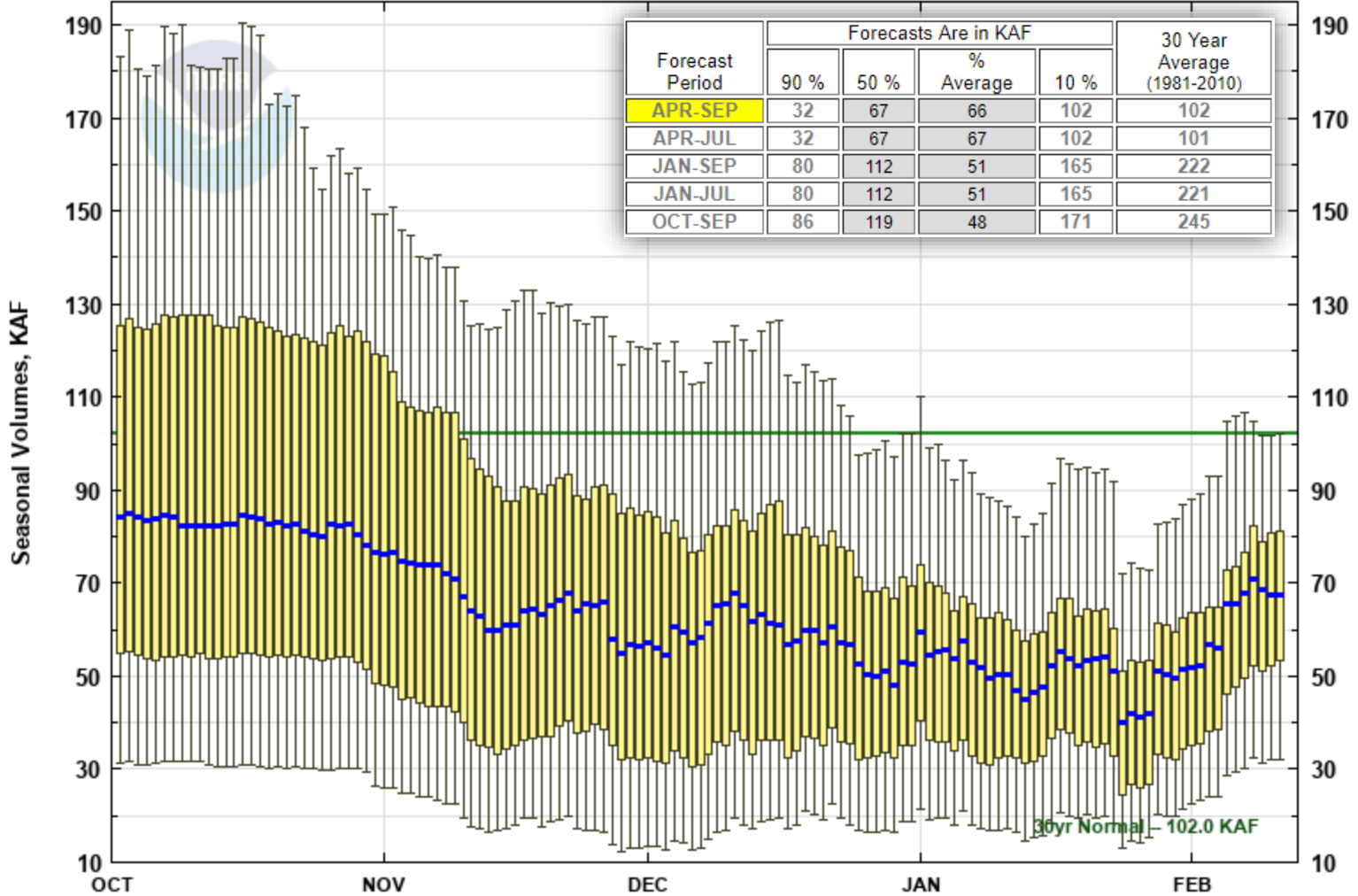
Natural Water Supply Forecasts (3/5)

Natural Volume Forecasts

CROOKED - NR PRINEVILLE

Period APR to SEP - Water Year 2019

— 30yr Normal
■ ESP10



Most Recent Forecast for ESP10: Issued Date 02/11/2019

Date of Ensemble

Plot Created 02/11/2019 02:06 PST



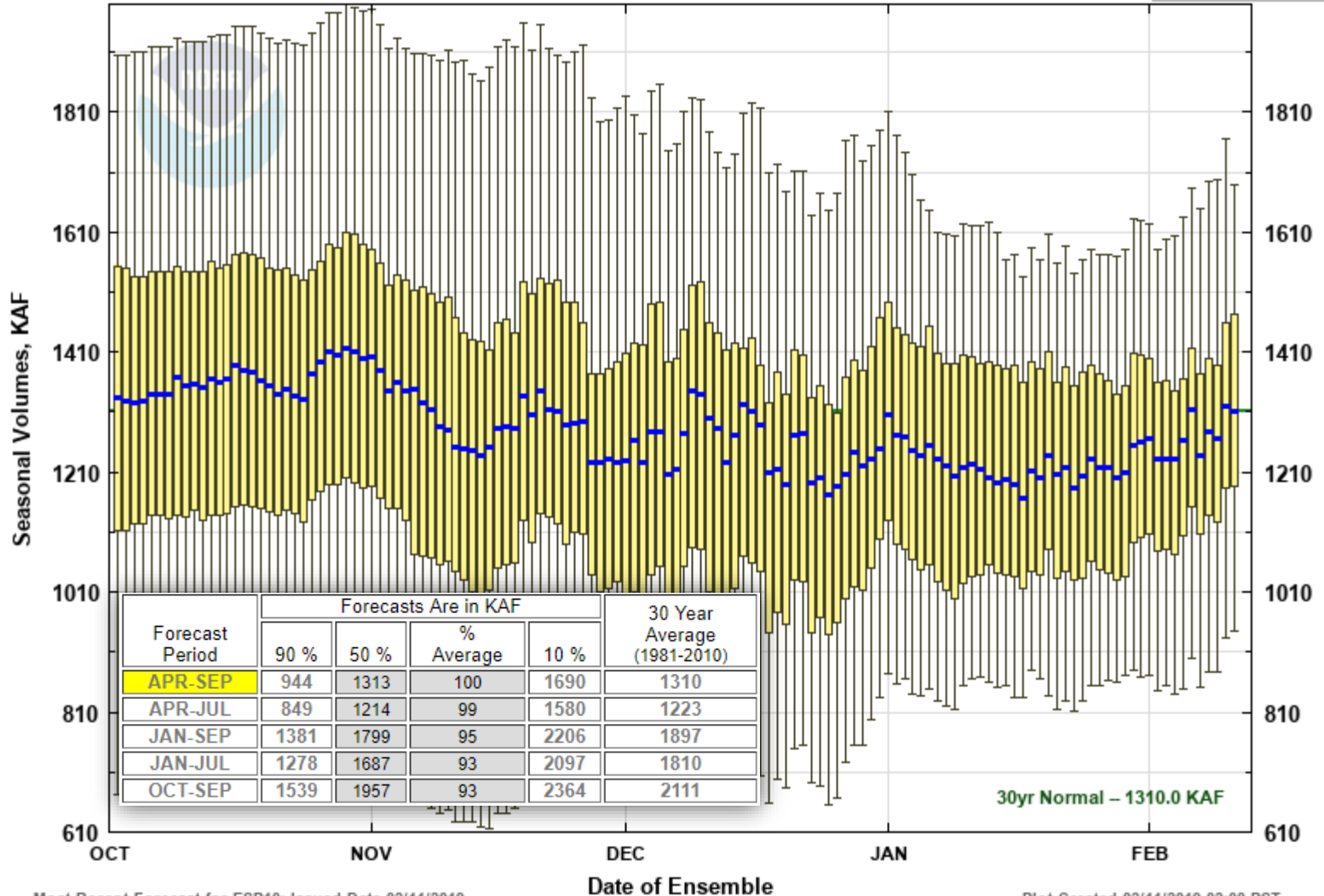
Natural Water Supply Forecasts (4/5)

Natural Volume Forecasts

GRANDE RONDE - TROY

Period APR to SEP – Water Year 2019

— 30yr Normal
 ■ ESP10

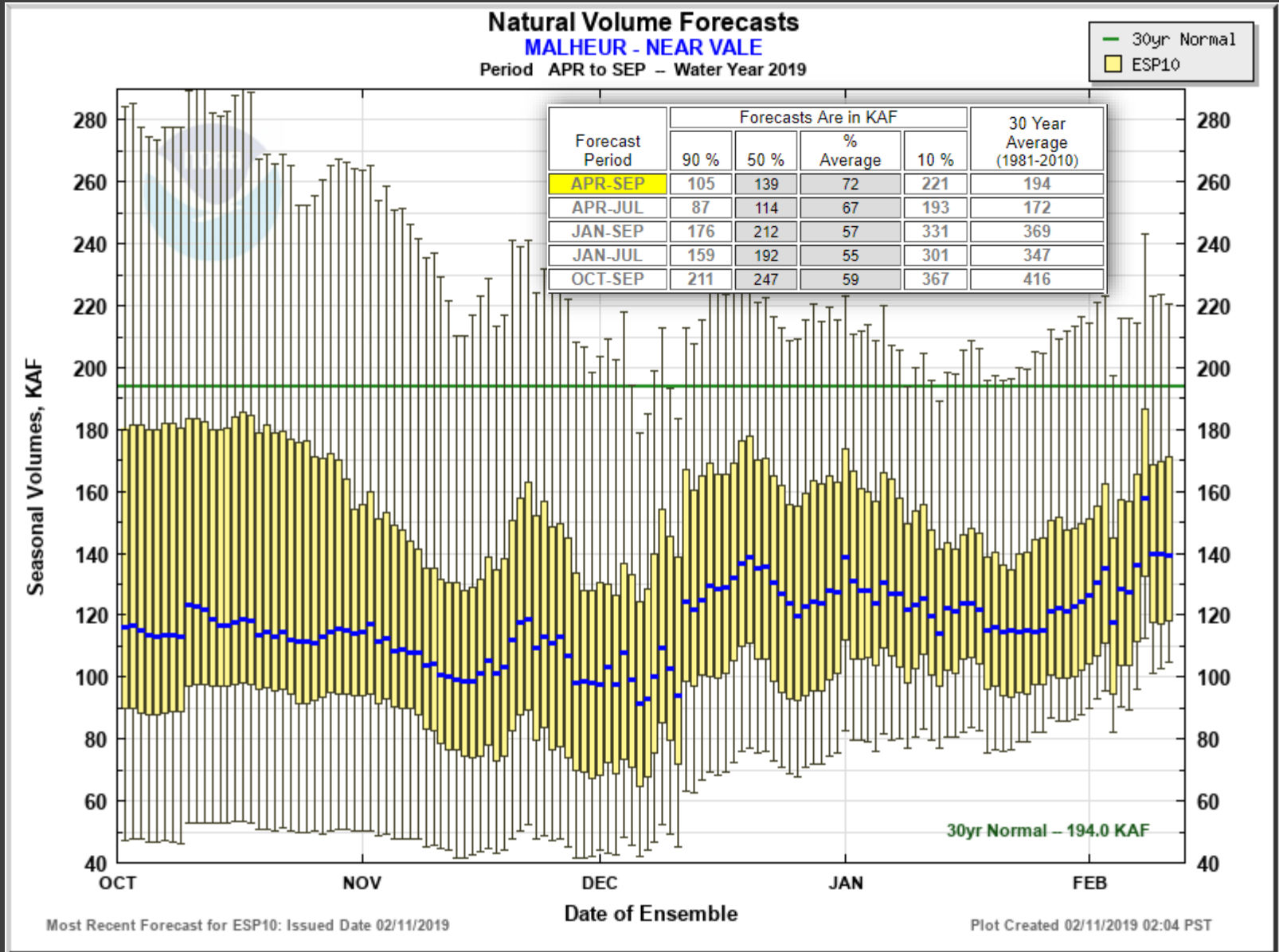


Most Recent Forecast for ESP10: Issued Date 02/11/2019

Plot Created 02/11/2019 02:08 PST



Natural Water Supply Forecasts (5/5)





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

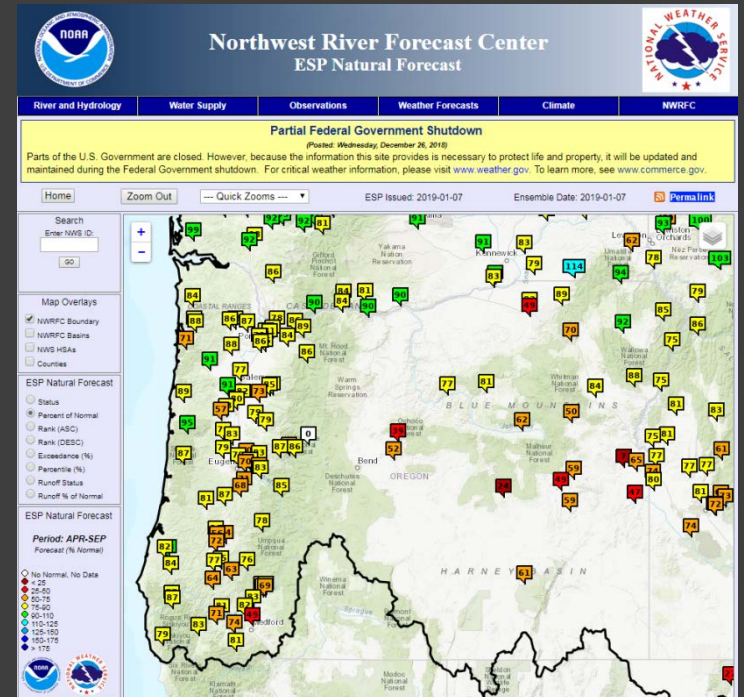
NWRFC Water Supply Forecast Monthly Briefing Schedule

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
<i>All presentations held at 10:00am PDT/PST, unless noted otherwise</i>					
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](#)



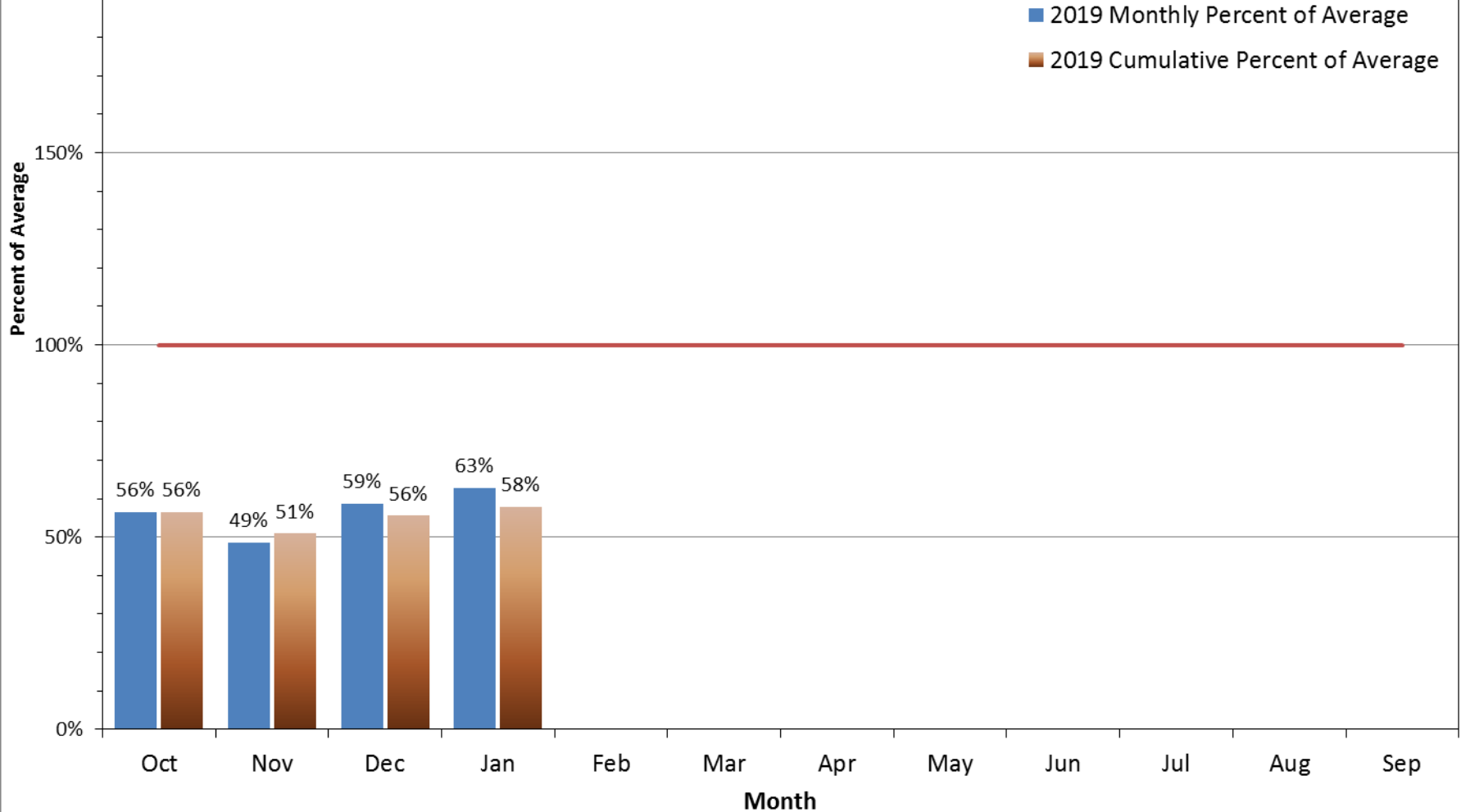
Water Supply Conditions Report

Water Supply Availability Committee



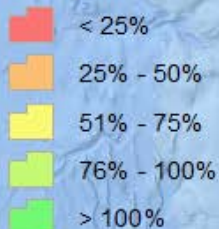
Ken Stahr
Oregon Water Resources
Department
February 12, 2019

2019 Statewide Percent of Average Stream Flow

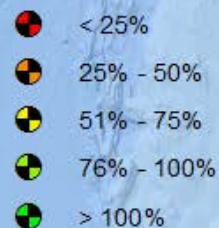


Percent of Average Streamflow January - 2019

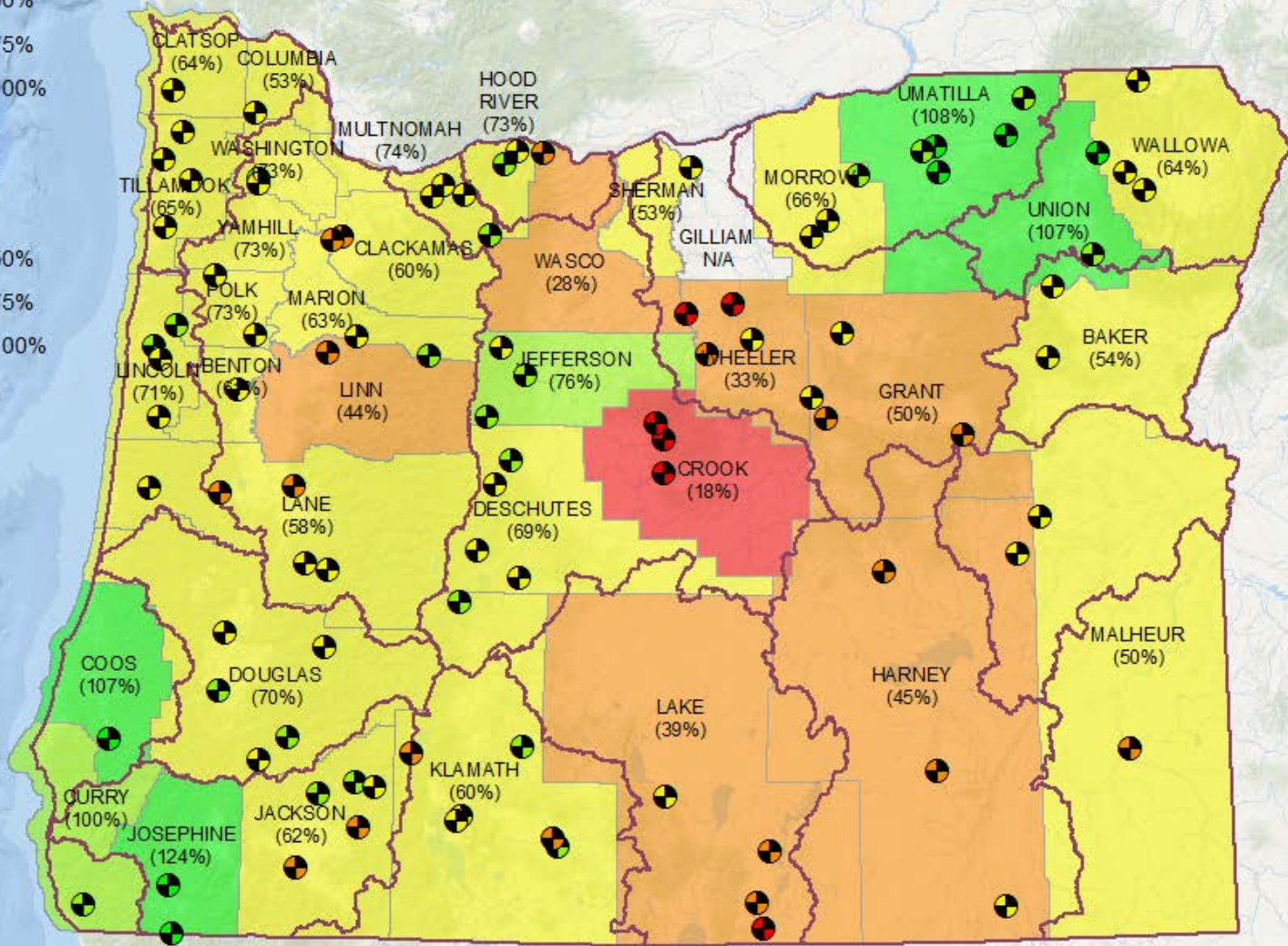
County



Stream gage



WRD Basin

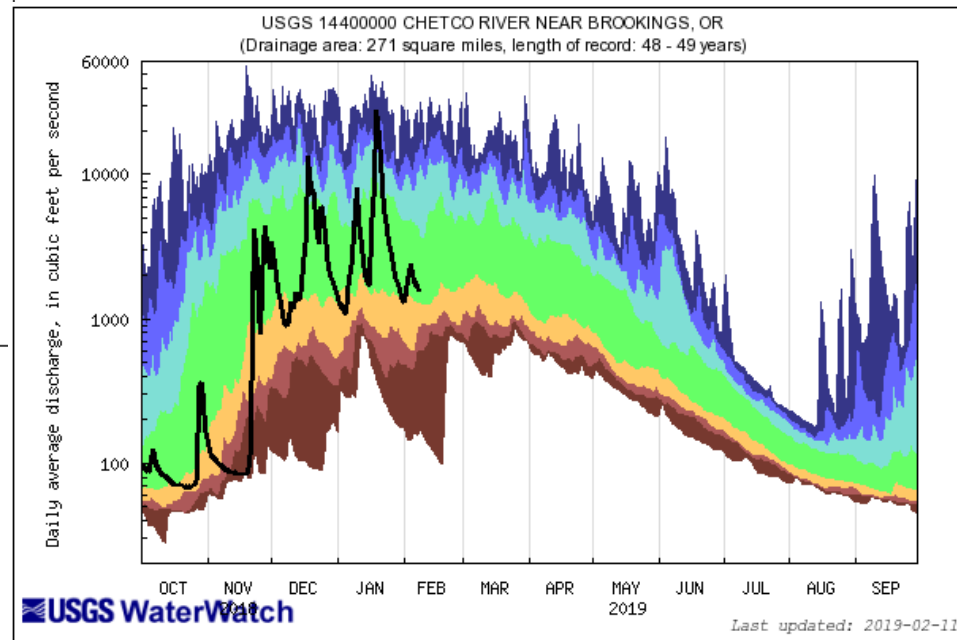
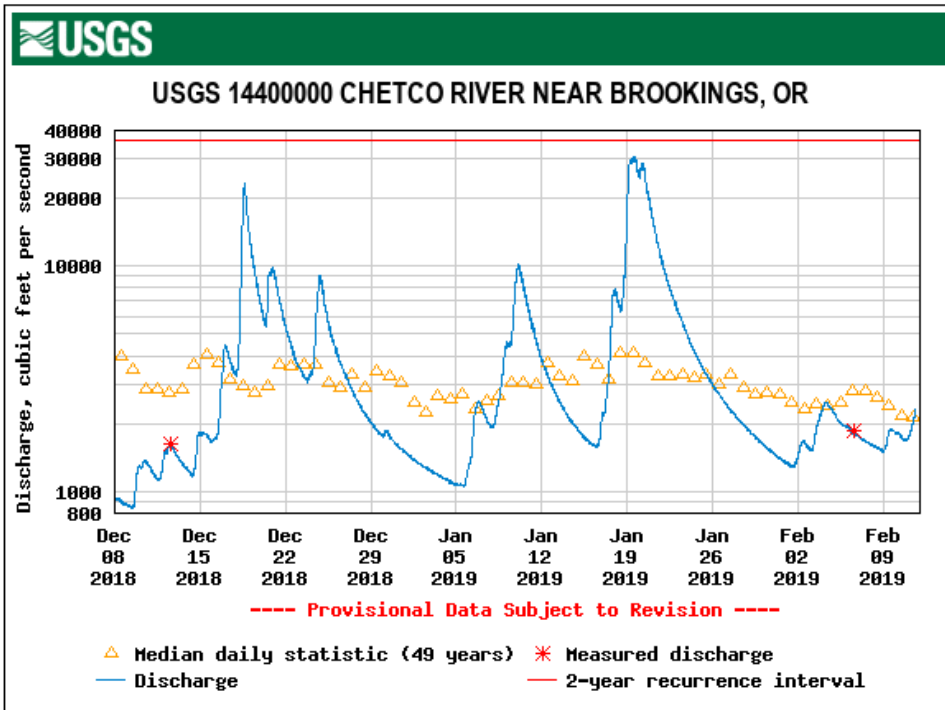


Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.



Basin	Water Year % of average through January, 2019	% of average for January	# of data points
West Side	59%	74%	45
East Side	57%	55%	44
State	58%	63%	89

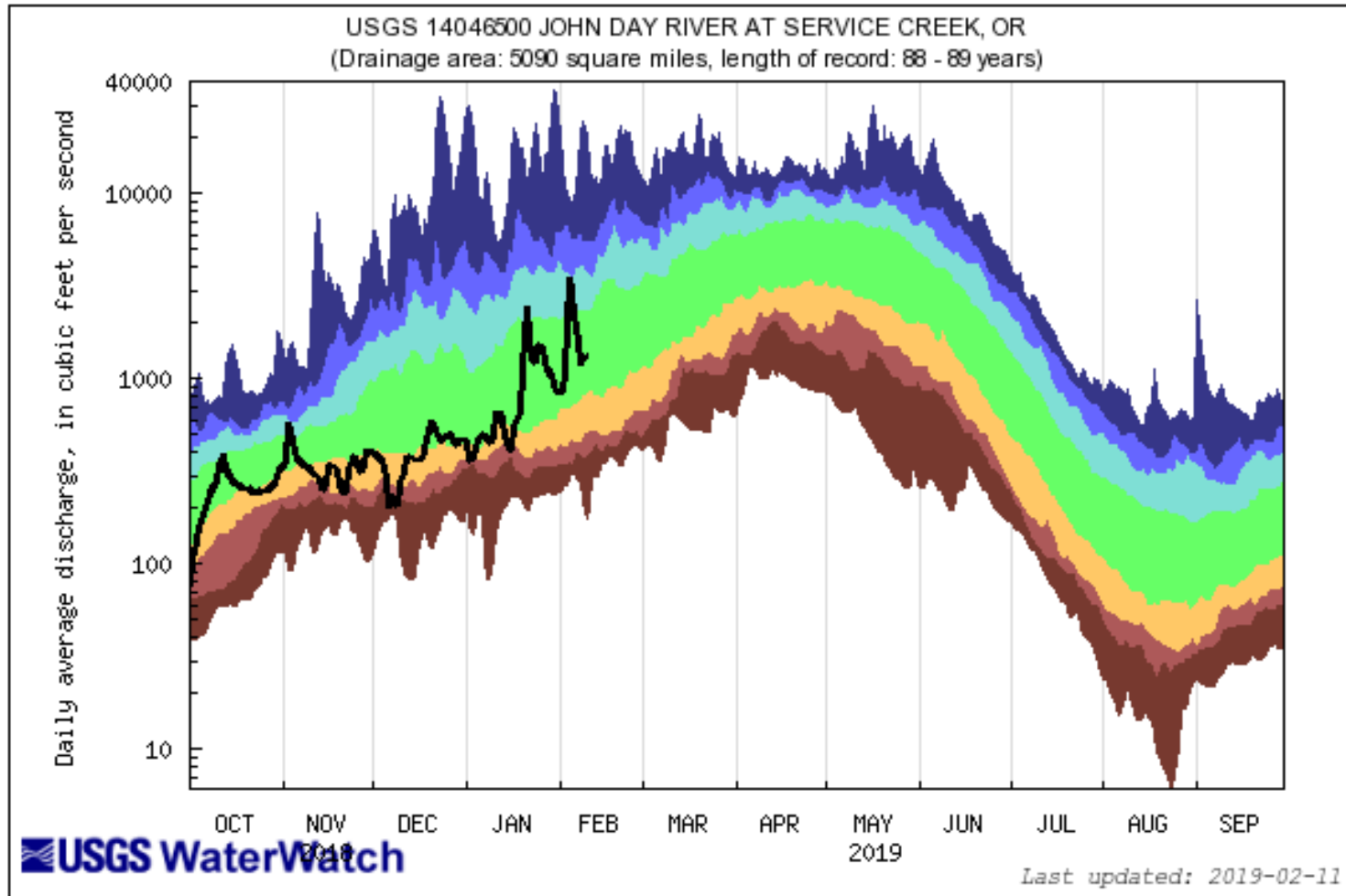
Peaks are better but still pretty unimpressive this water year.



Explanation - Percentile classes

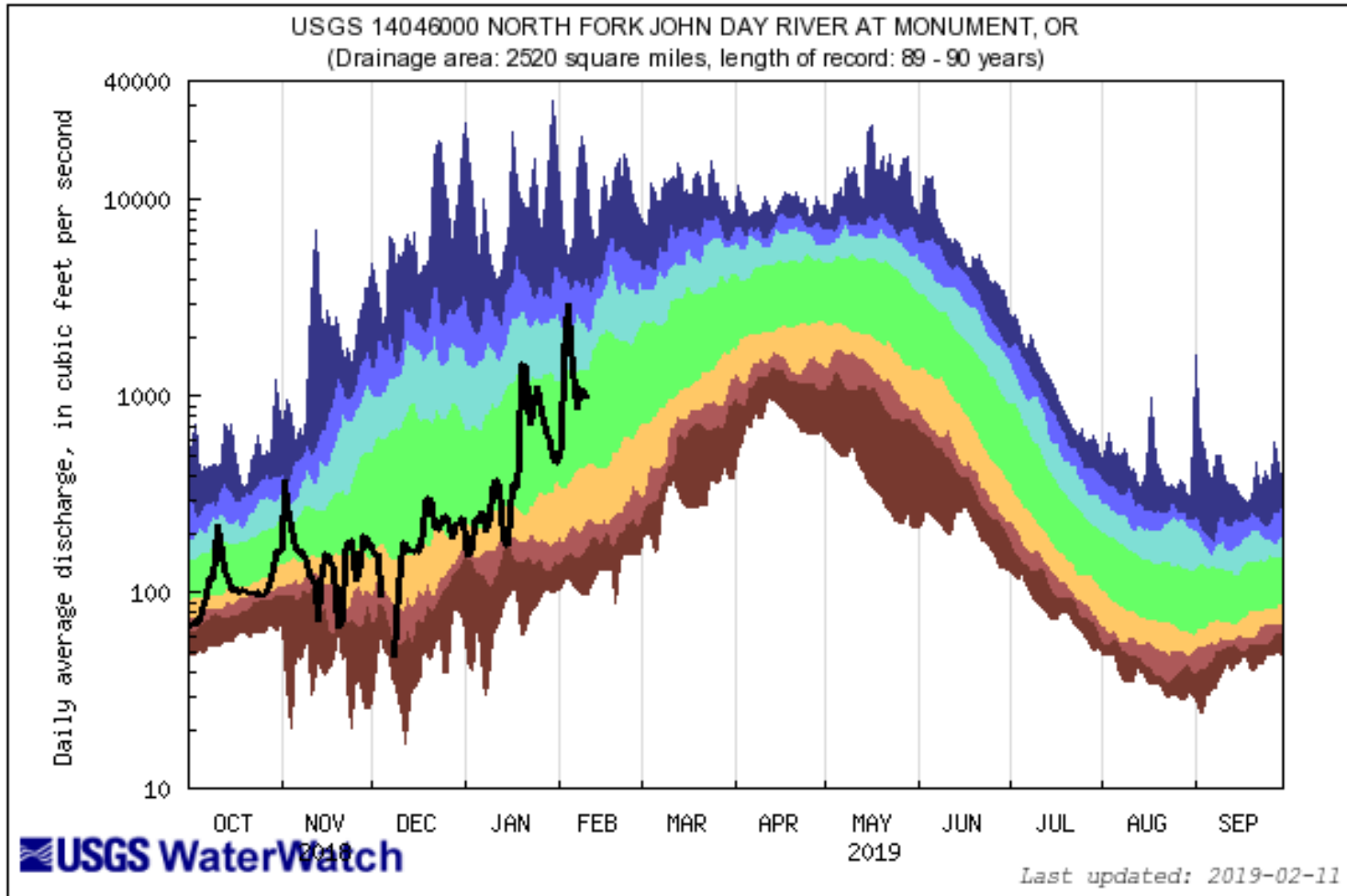
lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile - highest	Flow
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

John Day River in Wheeler County



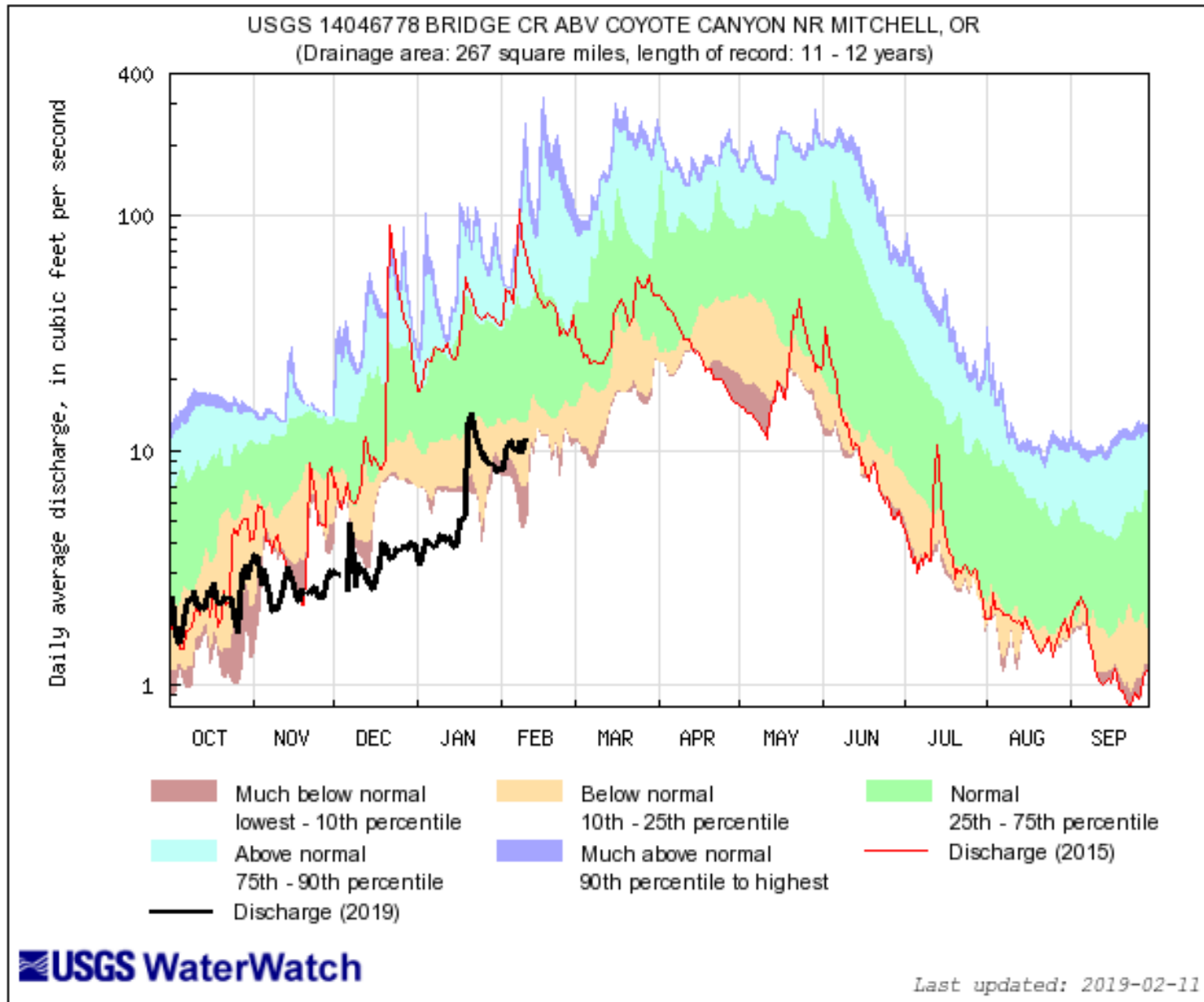
Explanation - Percentile classes						
lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile - highest
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal	
						Flow

N Fk John Day River in Wheeler County

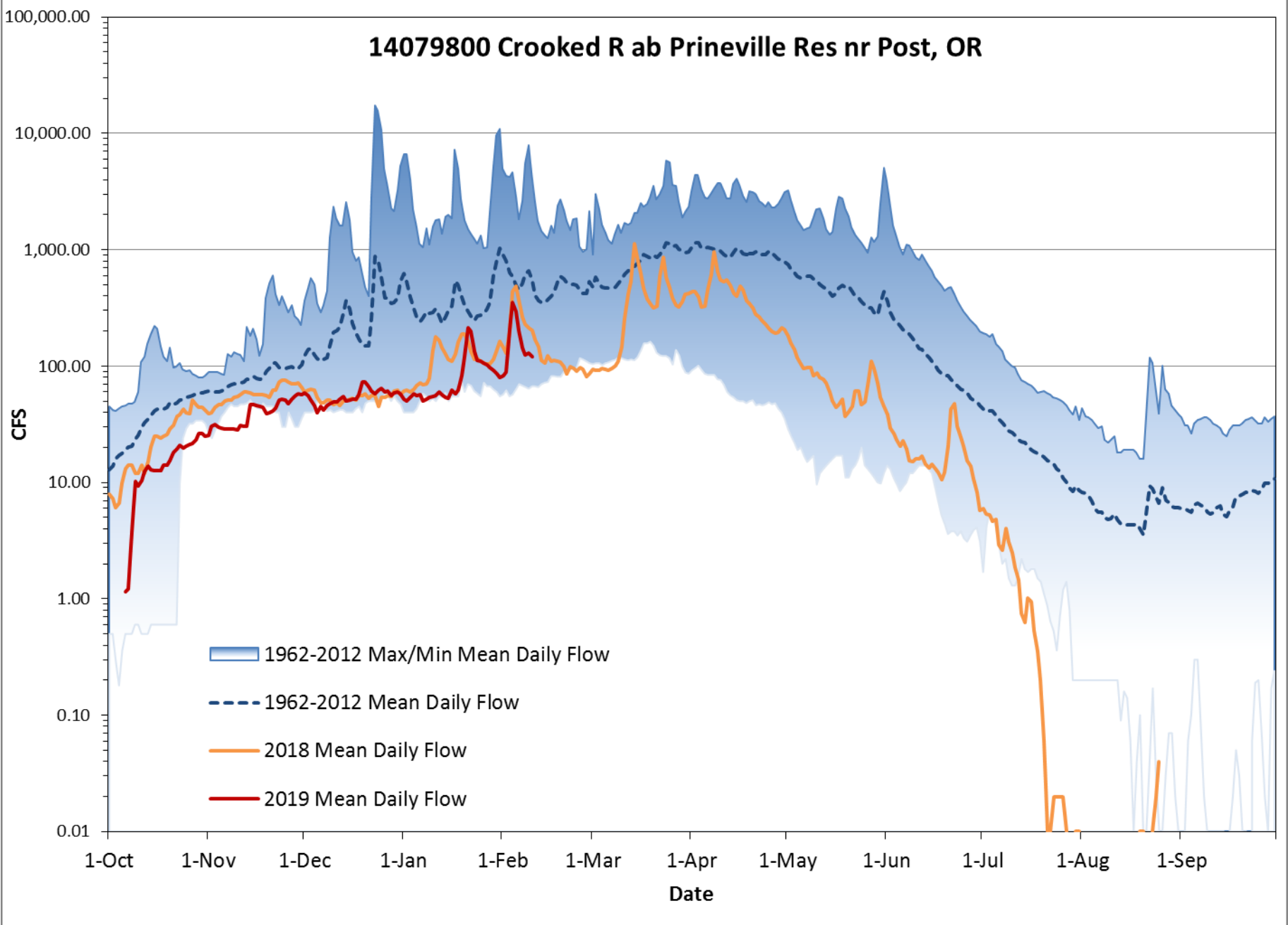


Explanation - Percentile classes						
lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile -highest
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal	
						Flow

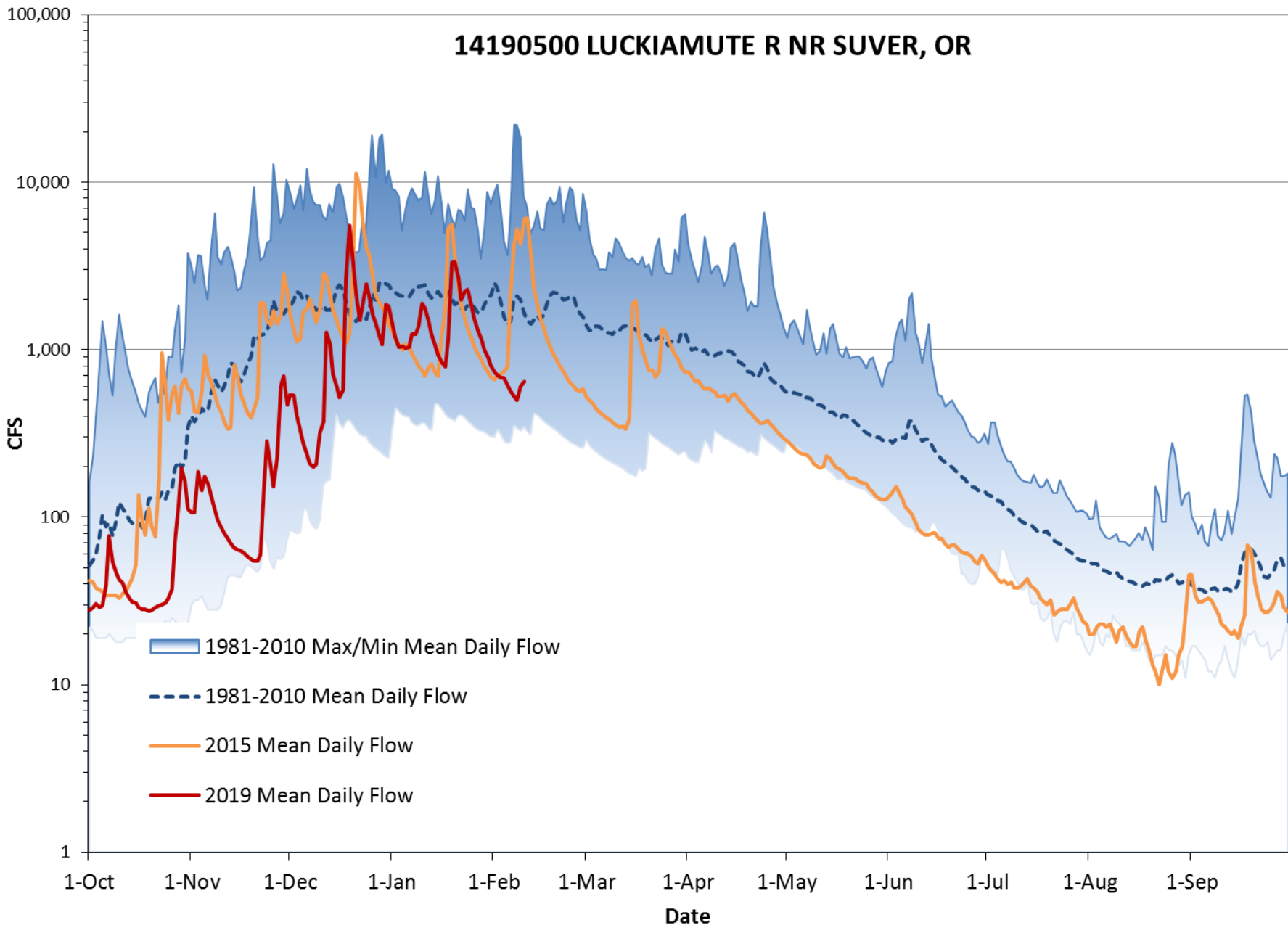
Bridge Cr in Wheeler County



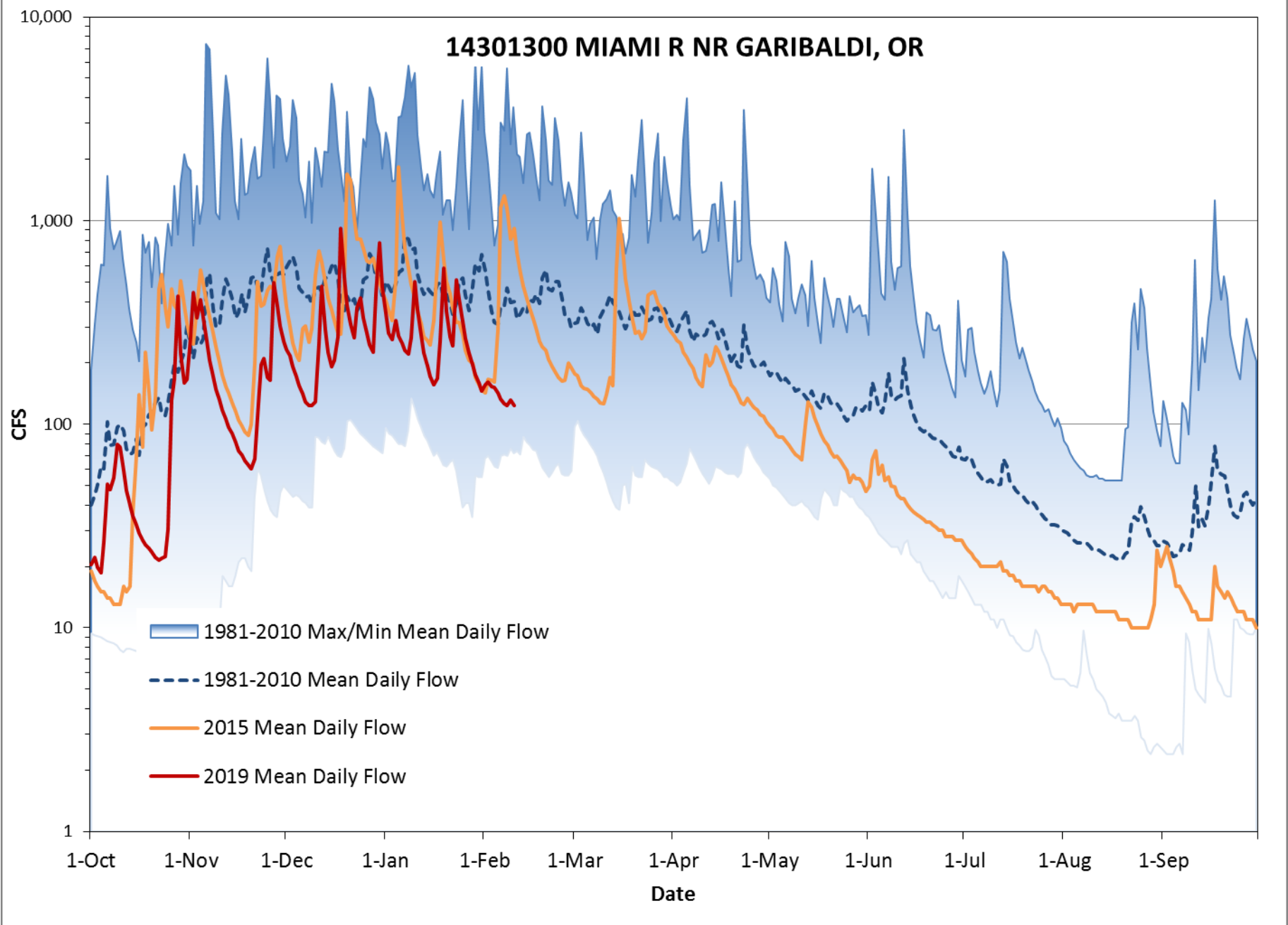
14079800 Crooked R ab Prineville Res nr Post, OR



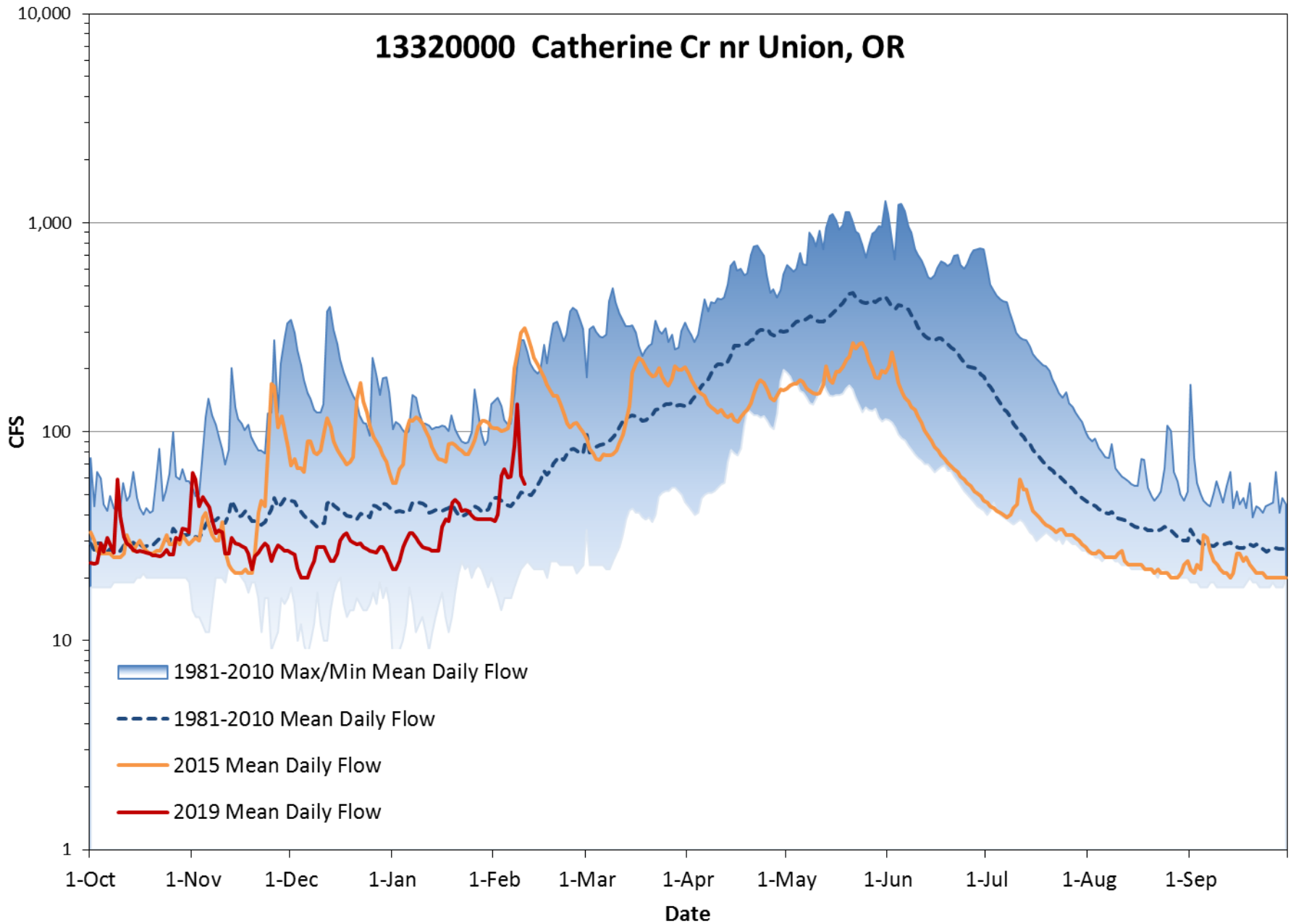
14190500 LUCKIAMUTE R NR SUVER, OR



14301300 MIAMI R NR GARIBALDI, OR



13320000 Catherine Cr nr Union, OR



OREGON



WATER RESOURCES
DEPARTMENT

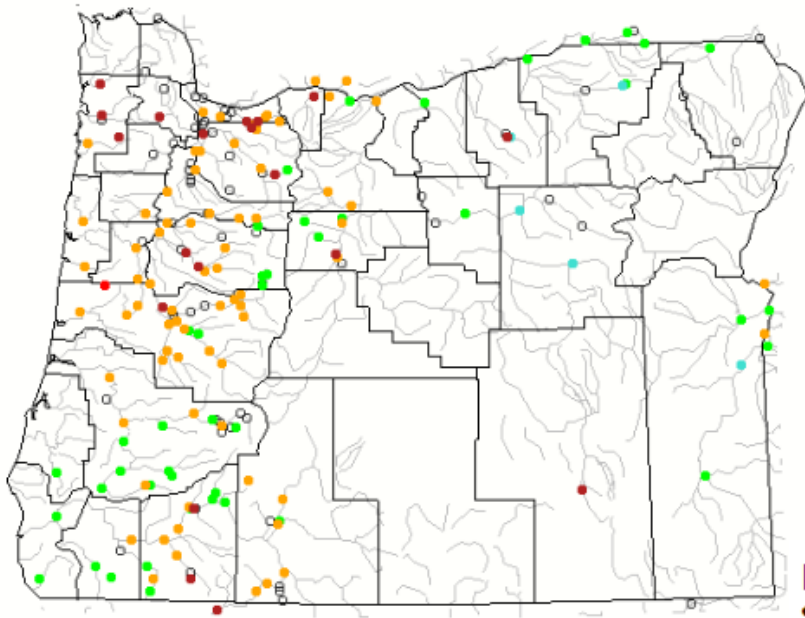
Thank you.



Oregon Water Supply Availability Meeting

February 2019

Sunday, February 10, 2019



Map of 7-day average streamflow compared to historical streamflow for the day of the year & current flows for today

Daily Streamflow Conditions

Select a site to retrieve data and station information.

Tuesday, February 12, 2019 11:30ET



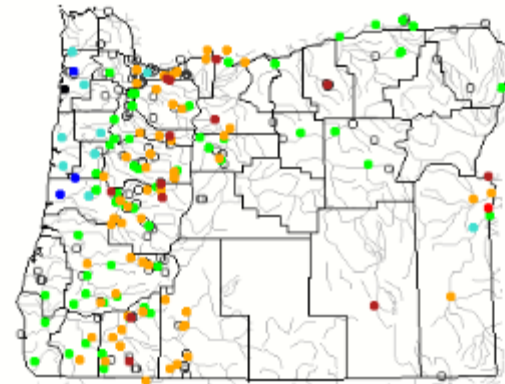
Search USGS streamgage

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

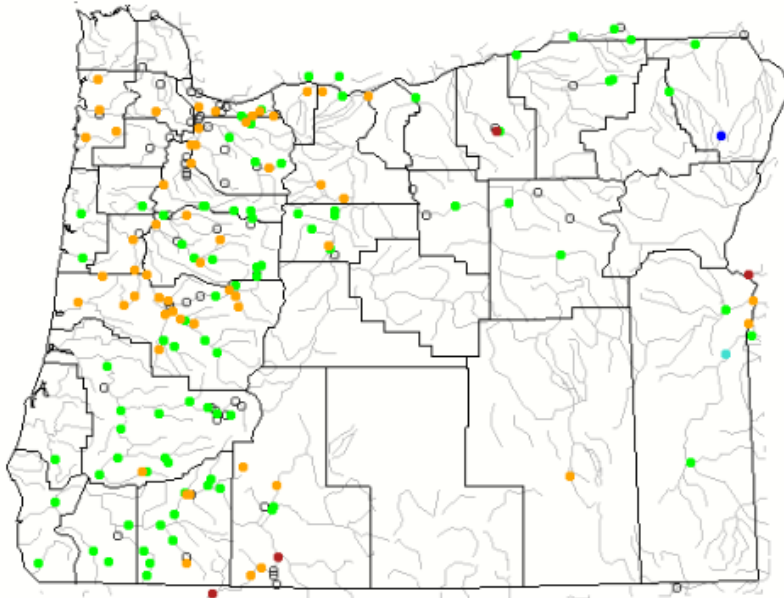
List of all stations Single station Nearest stations

Explanation - Percentile classes

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



January 2019



Search USGS streamgage

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

List of all stations Single station Nearest stations Peak flow

Explanation - Percentile classes

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

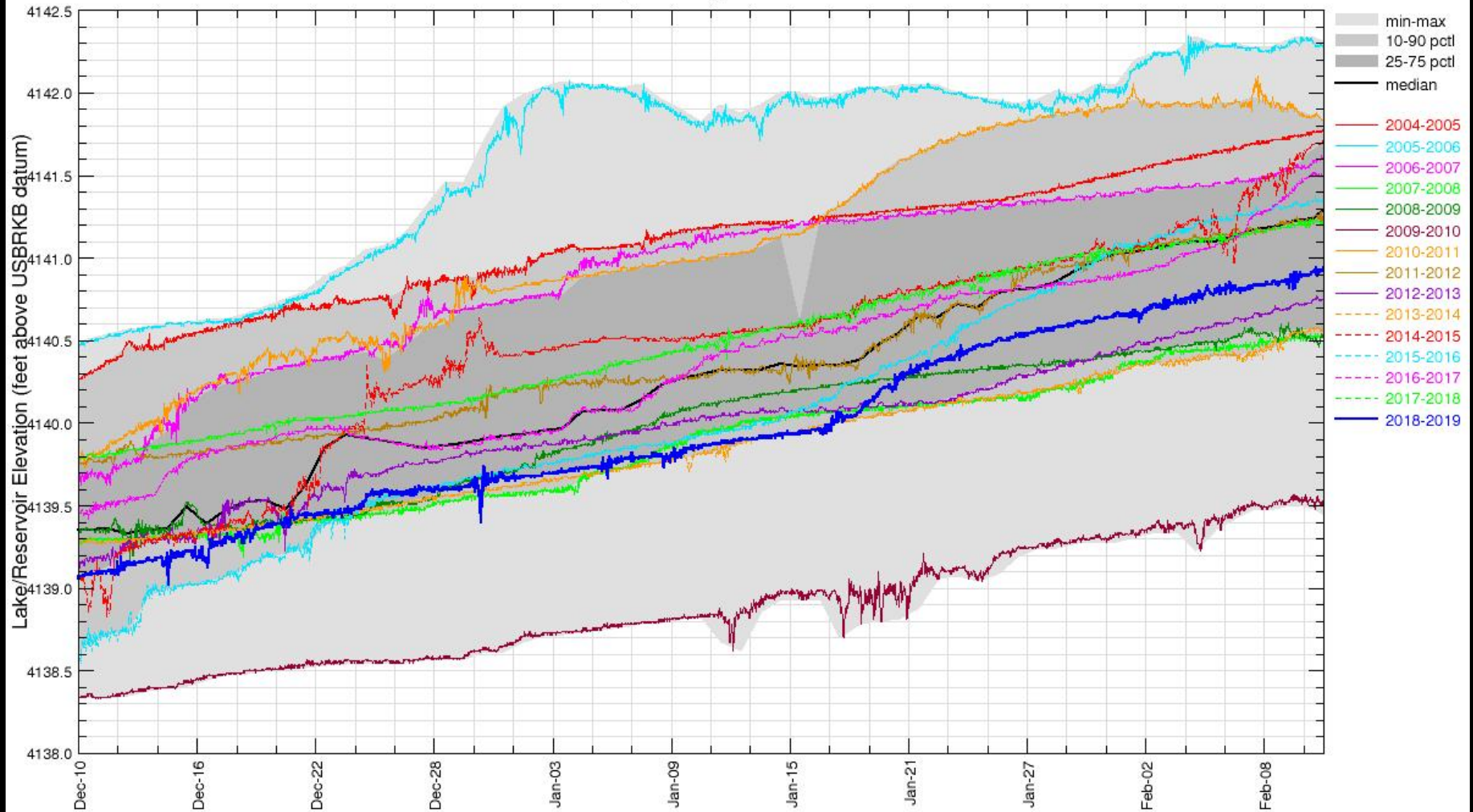
Pacific Northwest map of monthly Streamflow compared to historical streamflow for month of January.



Klamath Basin

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

Data from U.S. Geological Survey, Oct-01-2004 to Feb-10-2019

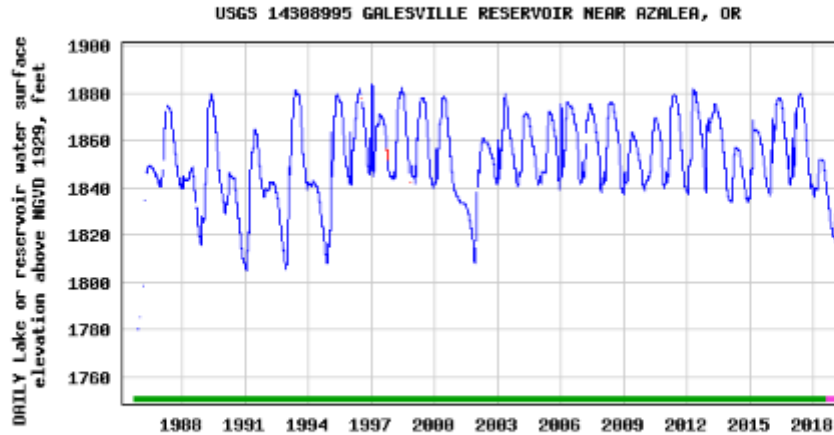


Mon Feb 11 17:55:41 2019



Douglas

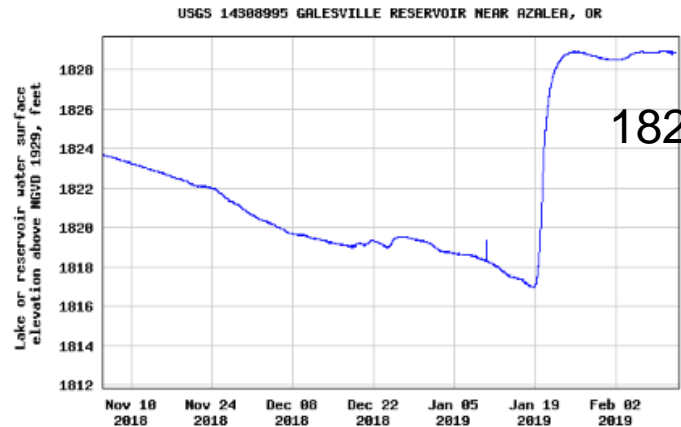
Lake or reservoir water surface elevation above NGVD 1929, feet



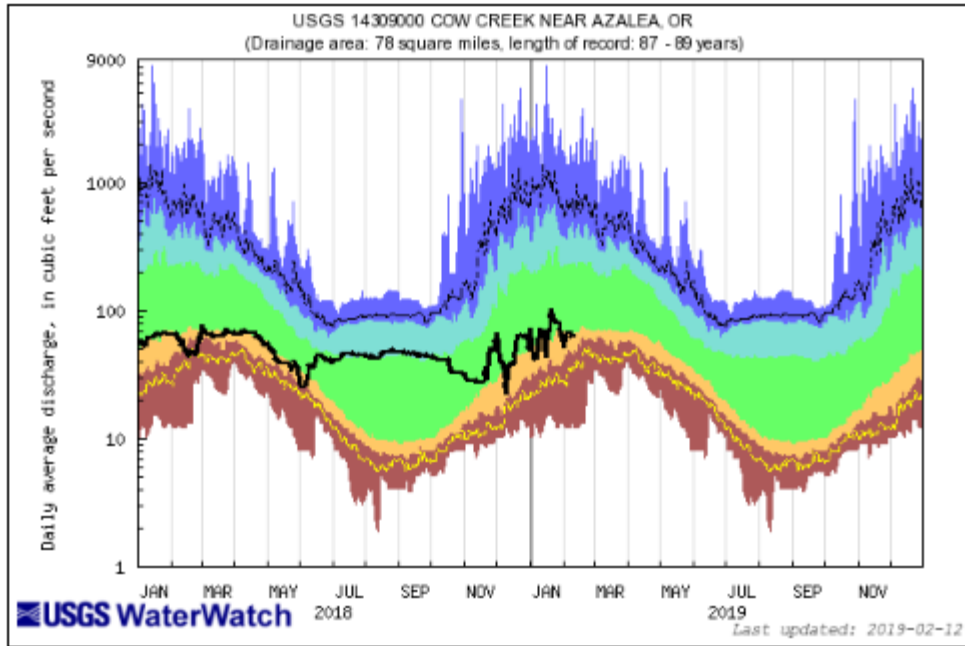
- Daily observation at noon lake or reservoir water surface elevation above NGVD 1929, feet
- Estimated daily observation at noon lake or reservoir water surface elevation above NGVD 1929, feet
- Period of approved data
- Period of provisional data

Lake or reservoir water surface elevation above NGVD 1929, feet

Most recent instantaneous value: 1828.87 02-12-2019 08:00 PST



Douglas



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			

Station	NRCS SWSI Basin	Monthly mean discharge		Change in discharge from previous month (percent)	Accumulated Runoff For the Period Oct. to Jan. Percent of average
		Cubic feet per second	Percent of average		
Donner Und Blitzen nr Frenchglen	Harney	28	42	4	51
Deep Creek above Adel	Lake County	28	34	65	34
Chewaucan River near Paisley	Lake County	58	59	66	61
Williamson River near Chiloquin	Klamath	680	65	17	73
Owyhee River near Rome	Owyhee	224	43	27	54
NF Malheur River near Beulah	Malheur	38	52	-12	71
Grande Ronde R at Troy	Grande Ronde Powder/Burnt	1,320	68	34	72
Umatilla River nr Gibbon	Umatilla Lower John Day	273	105	36	95
John Day River at Service Crk	Upper John Day	828	51	108	49
Little Deschutes River nr LaPine	Upper Deschutes	81	49	-8	61
Hood River nr Hood River	Lower Deschutes Mt.Hood	910	64	-12	68
Willamette River at Salem	Willamette	26,702	59	17	51
Wilson River near Tillamook	North Coast	1,768	71	-24	70
Umpqua River near Elkton	Rogue/Umpqua	10,077	69	81	50
Rogue River near Agness	Rogue/Umpqua	8,530	83	135	61
SF Coquille River at Powers	South Coast	1,767	105	61	66
Chetco River near Brookings	South Coast	4,844	98	50	65

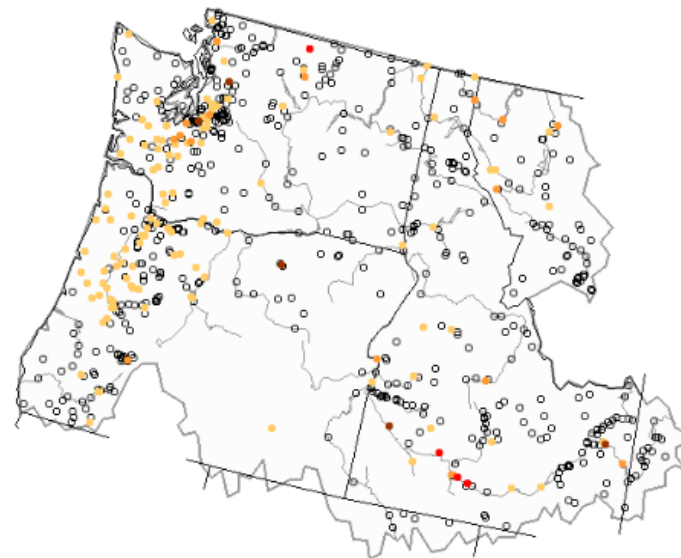
All data should be considered provisional and subject to revision.
Percent of average computed using 30-year base period, water years 1981-2019.
(*) provided by Oregon Water Resources Department

2/4/2019

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

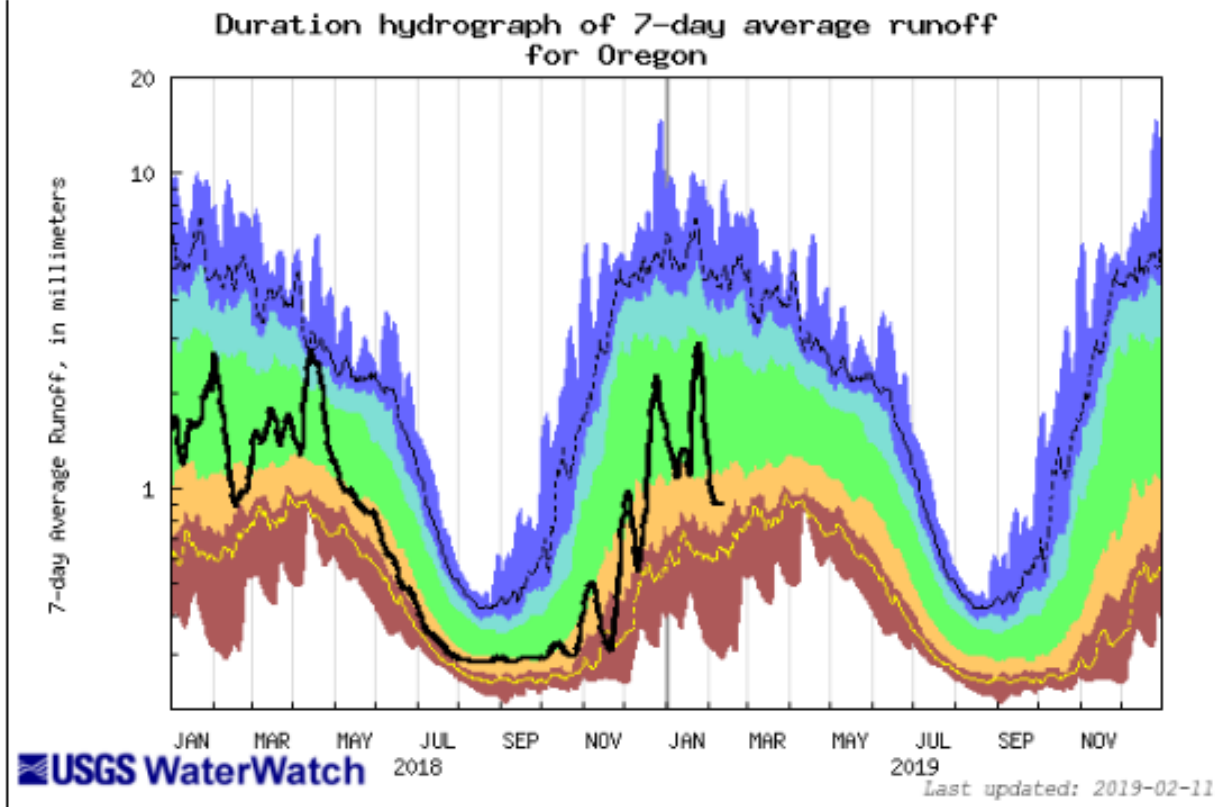
State or 17 Pacific Northwest

Monday, February 11, 2019



Search USGS streamgauge

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



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

Provisional Data Statement

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

Power Point “USGS Update on Surface Water Conditions”

By: Marc Stewart & Carrie Boudreau USGS ORWSC

Water Availability Report By: Tiffany Rae Jacklin

Pictures: Amarys Acosta -- USGS ORWSC



RECLAMATION

Managing Water in the West

Oregon Water Supply Availability Committee Meeting

Pacific Northwest Regional Office
River and Reservoir Operations
Feb 11, 2019



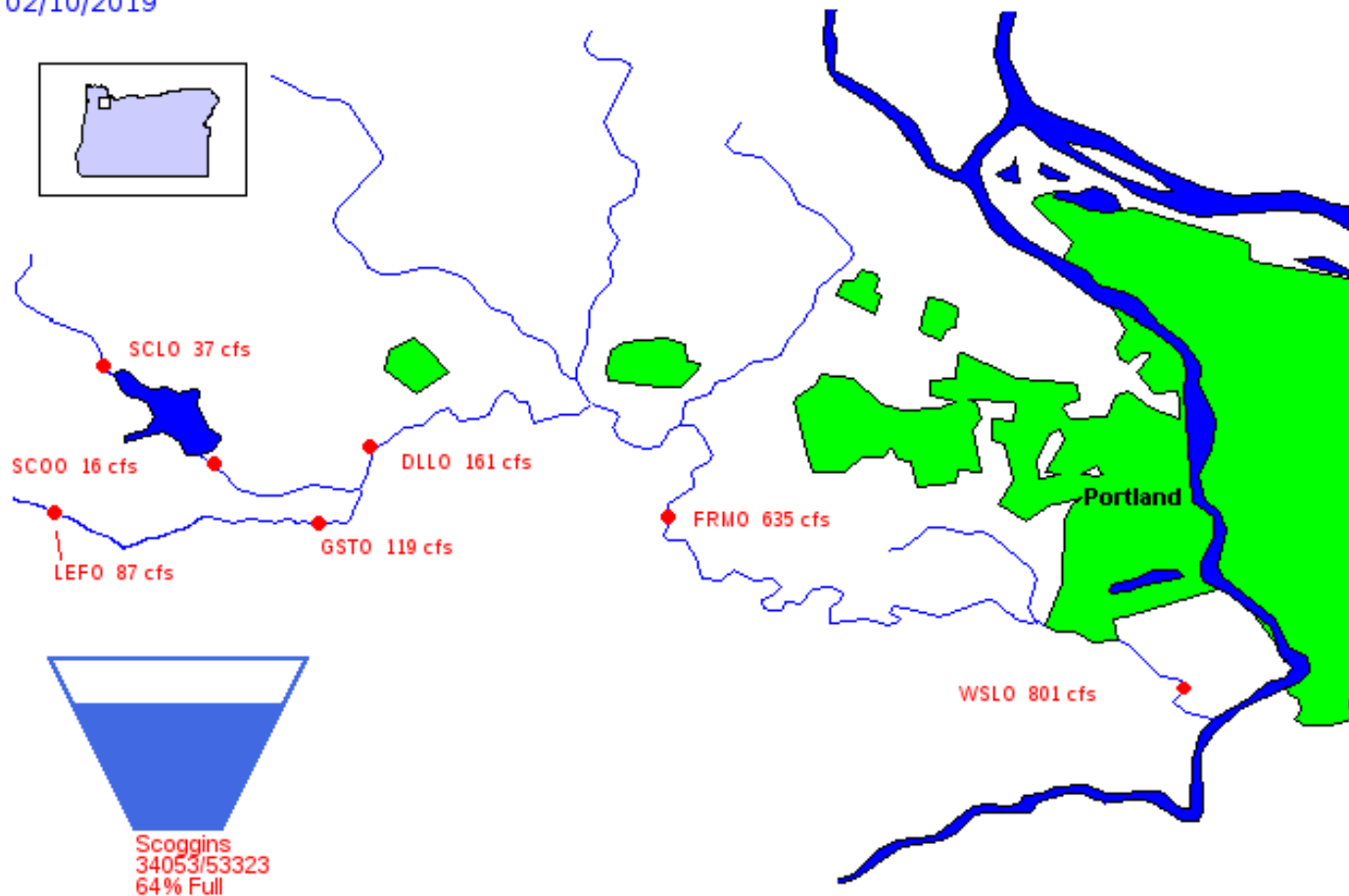
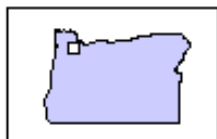
U.S. Department of the Interior
Bureau of Reclamation

Current Conditions

RECLAMATION

Tualatin River Basin

02/10/2019

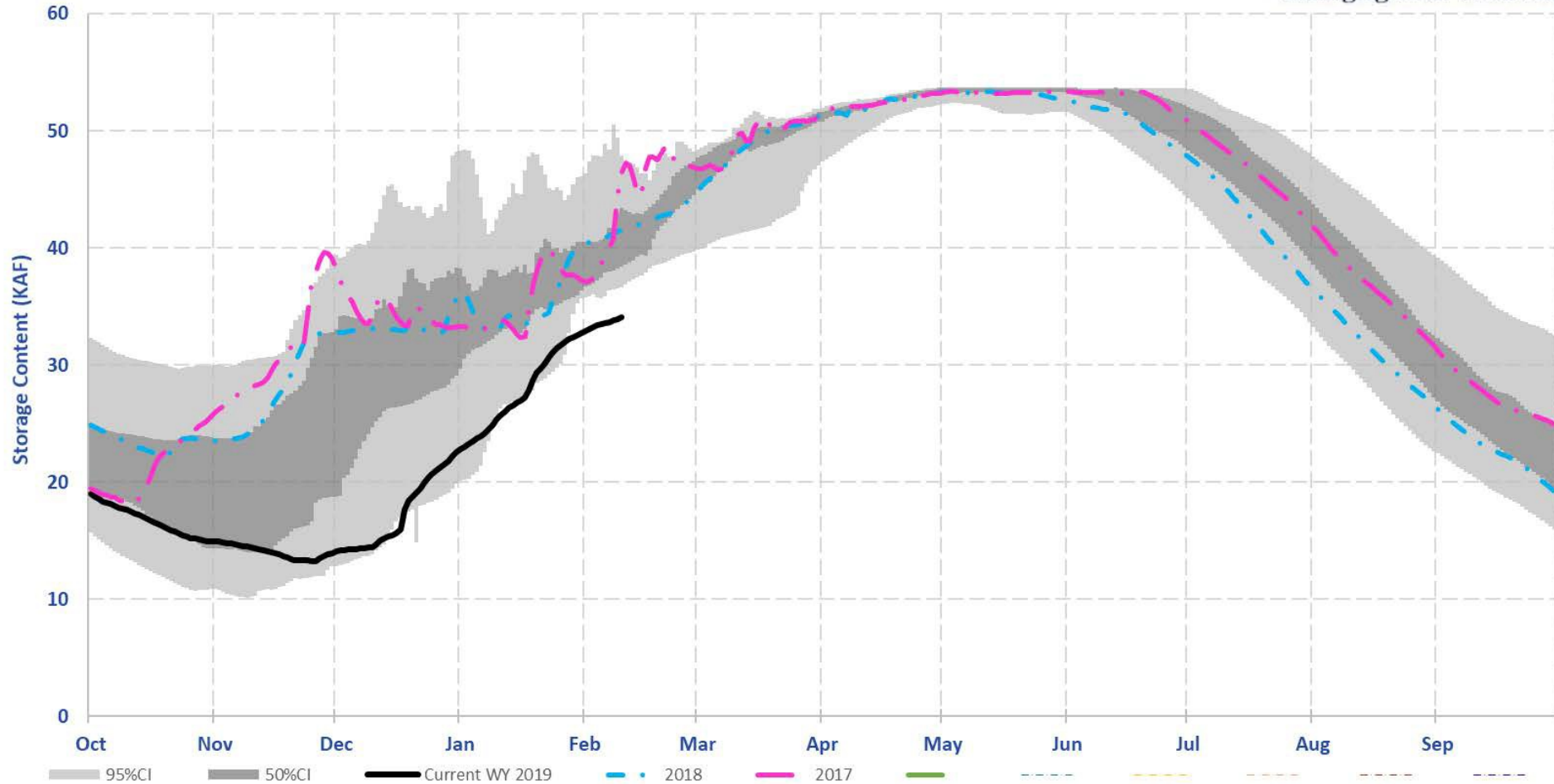


RECLAMATION

Tualatin River Basin: Scoggins

RECLAMATION
Managing Water in the West

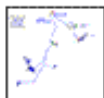
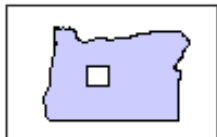
SCO AF



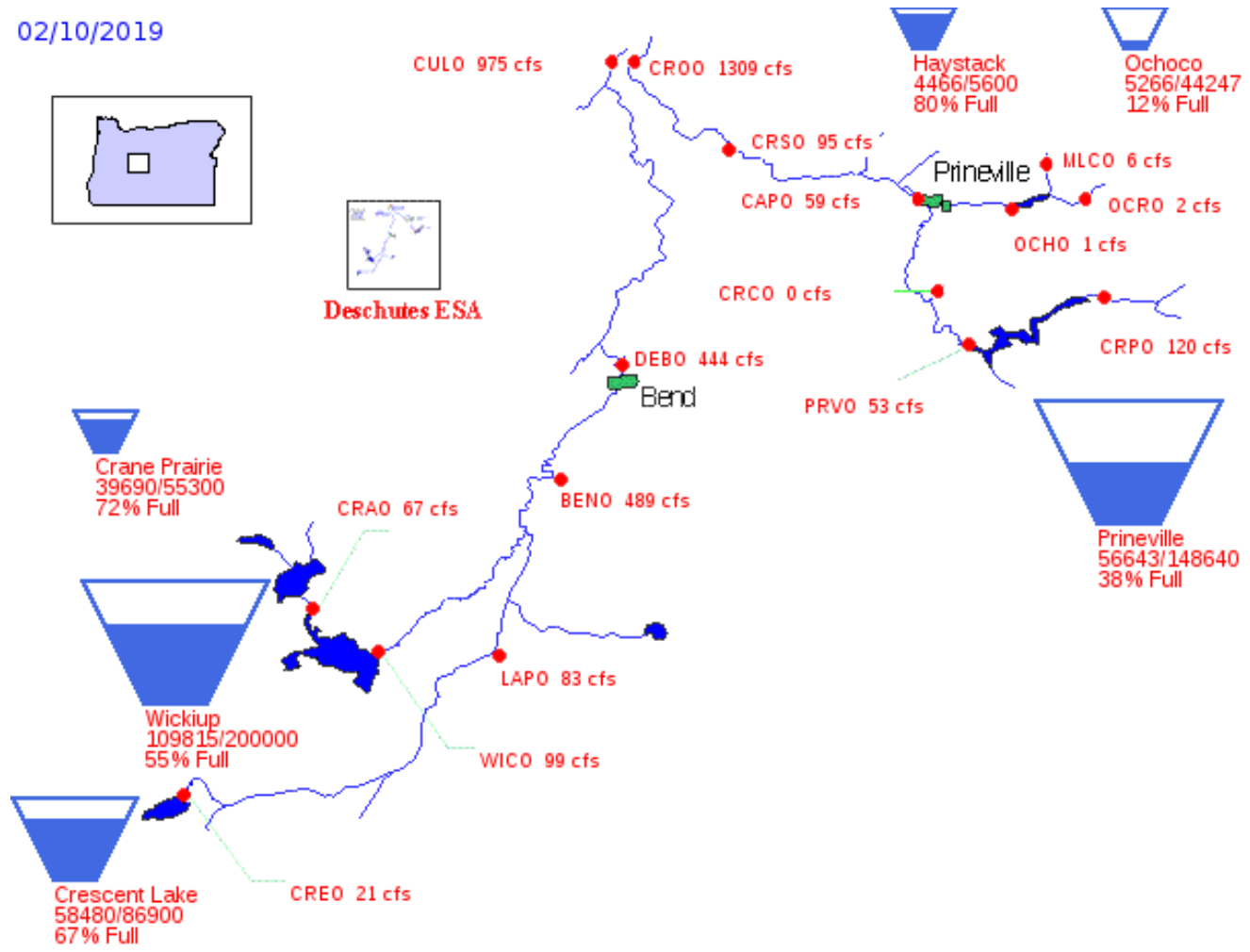
RECLAMATION

Deschutes River Basin

02/10/2019



Deschutes ESA

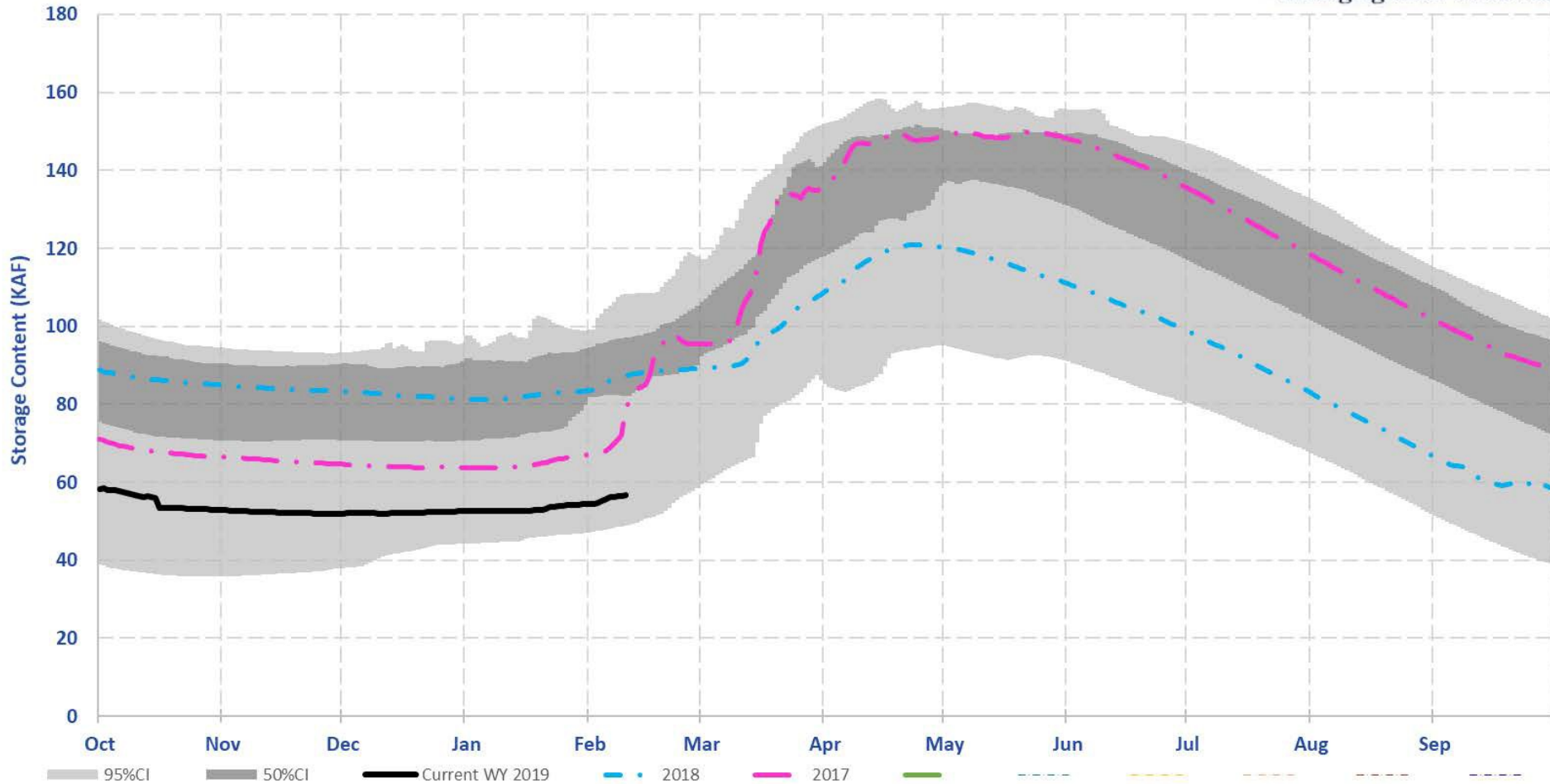


RECLAMATION

Deschutes River Basin: Prineville

RECLAMATION
Managing Water in the West

PRV AF

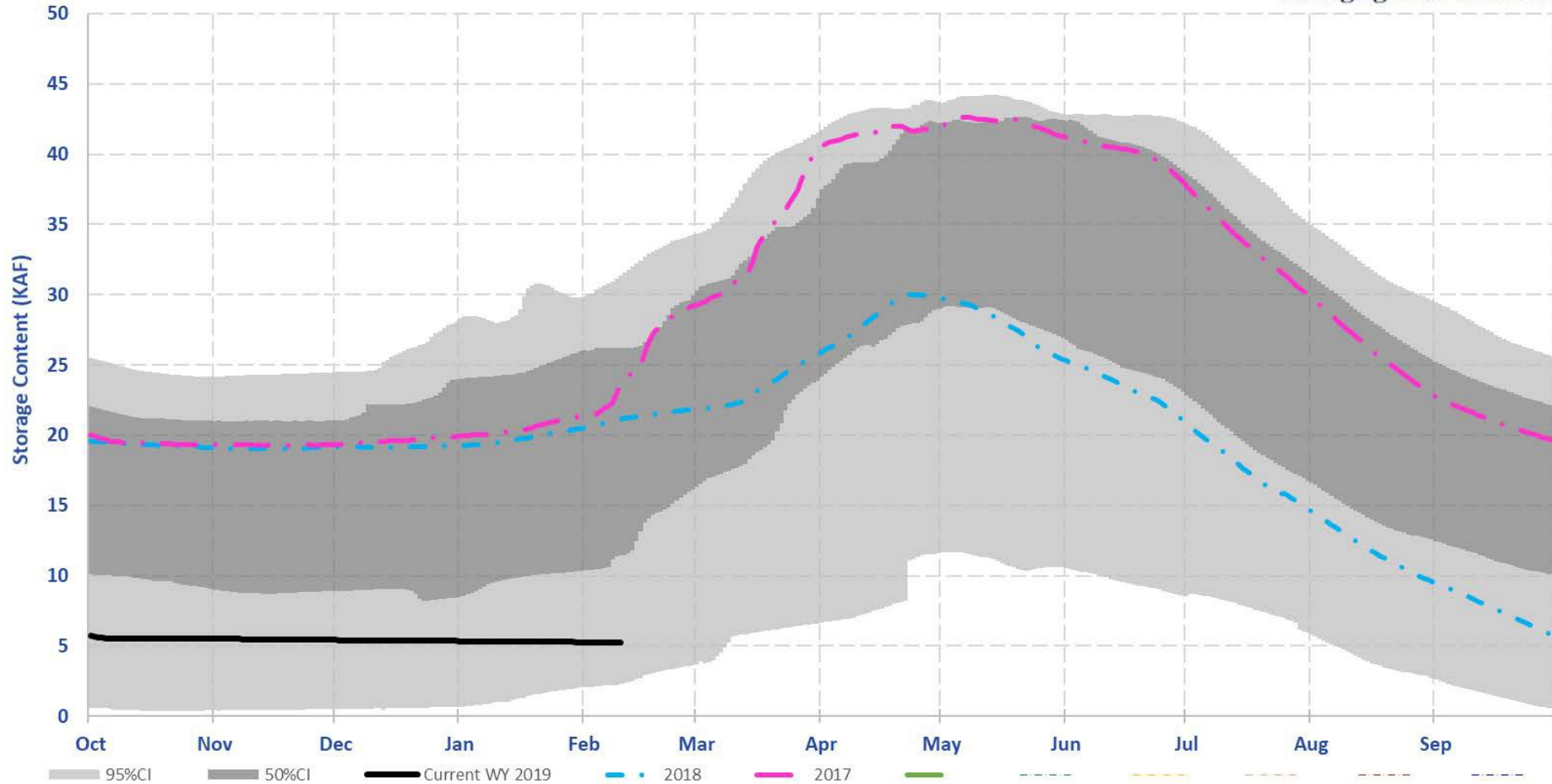


RECLAMATION

Deschutes River Basin: Ochoco

RECLAMATION
Managing Water in the West

OCH AF

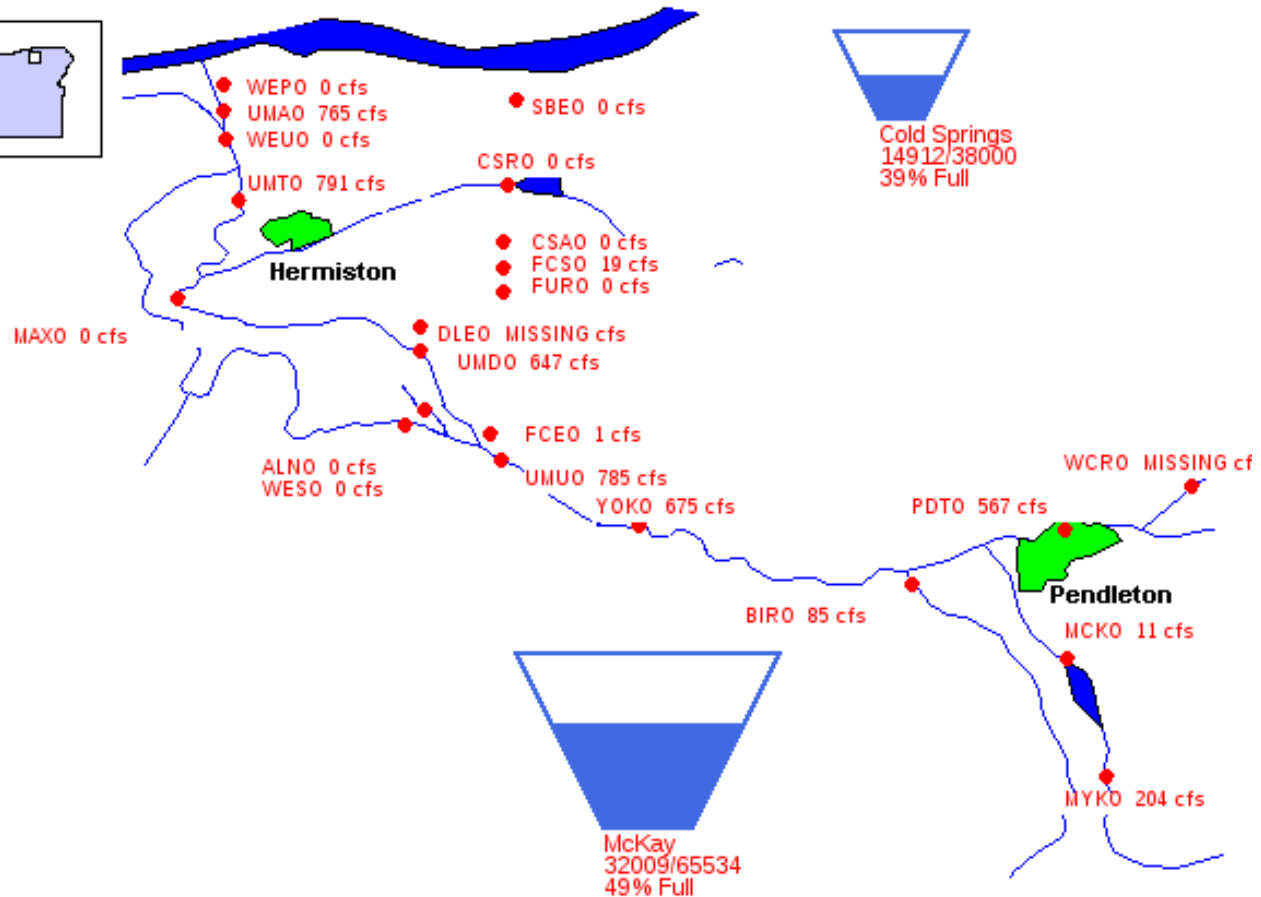
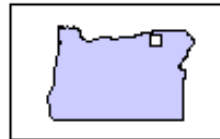


We are currently having issues with this gage – data is likely to be erroneous.

RECLAMATION

Umatilla River Basin

02/10/2019

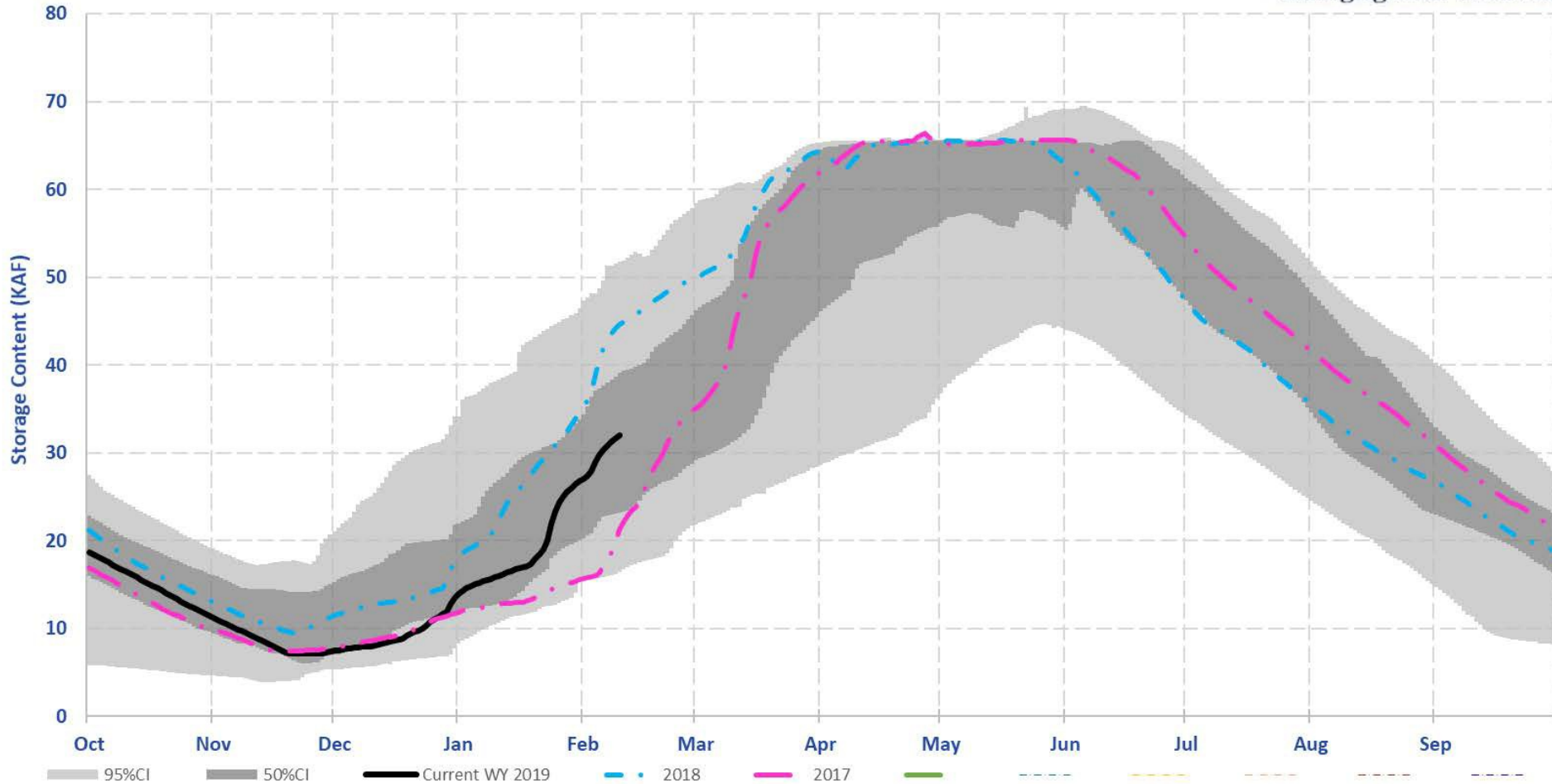


RECLAMATION

Umatilla River Basin: McKay

RECLAMATION
Managing Water in the West

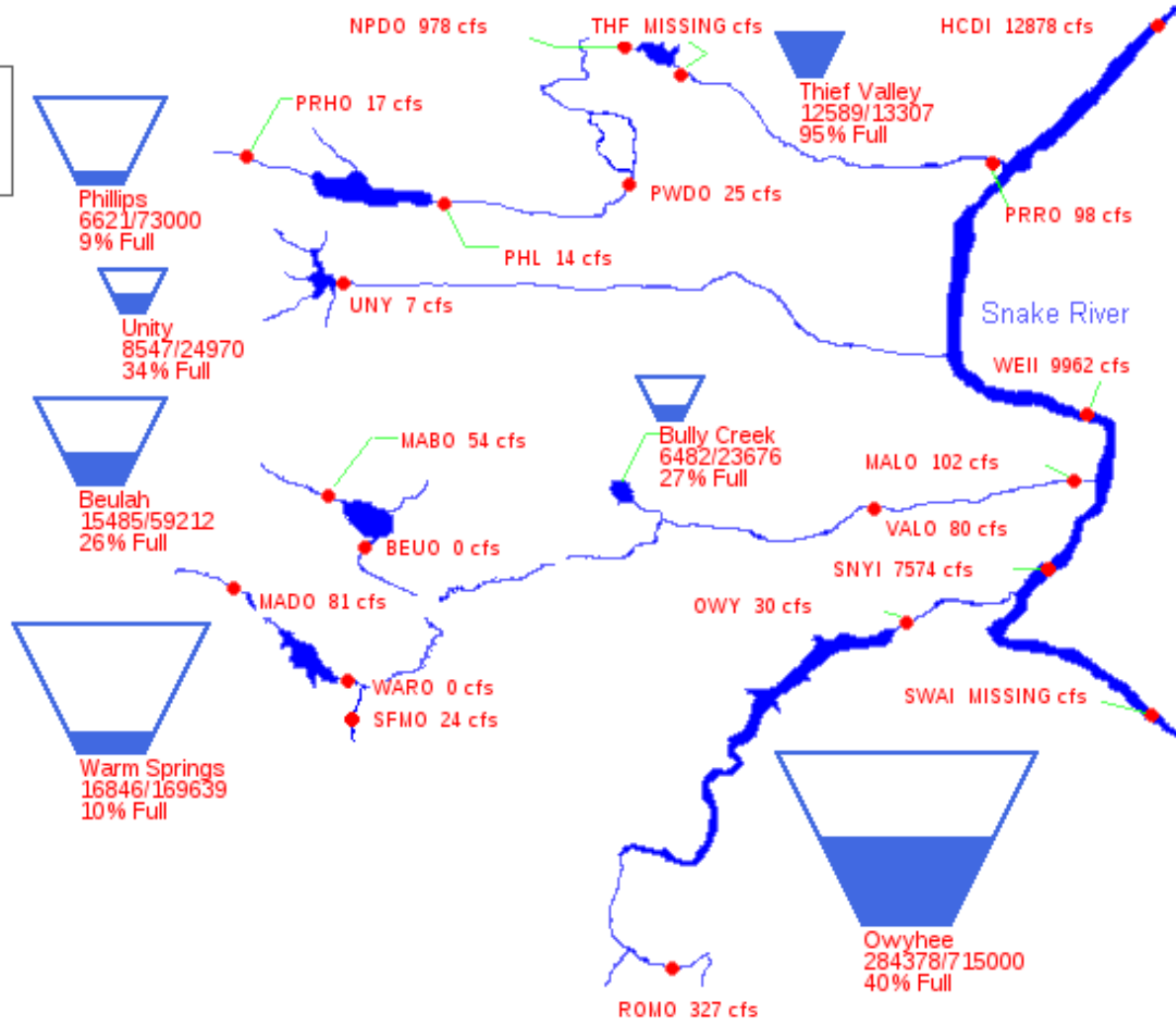
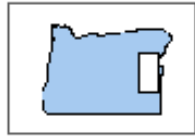
MCK AF



RECLAMATION

Southeastern Oregon

02/10/2019

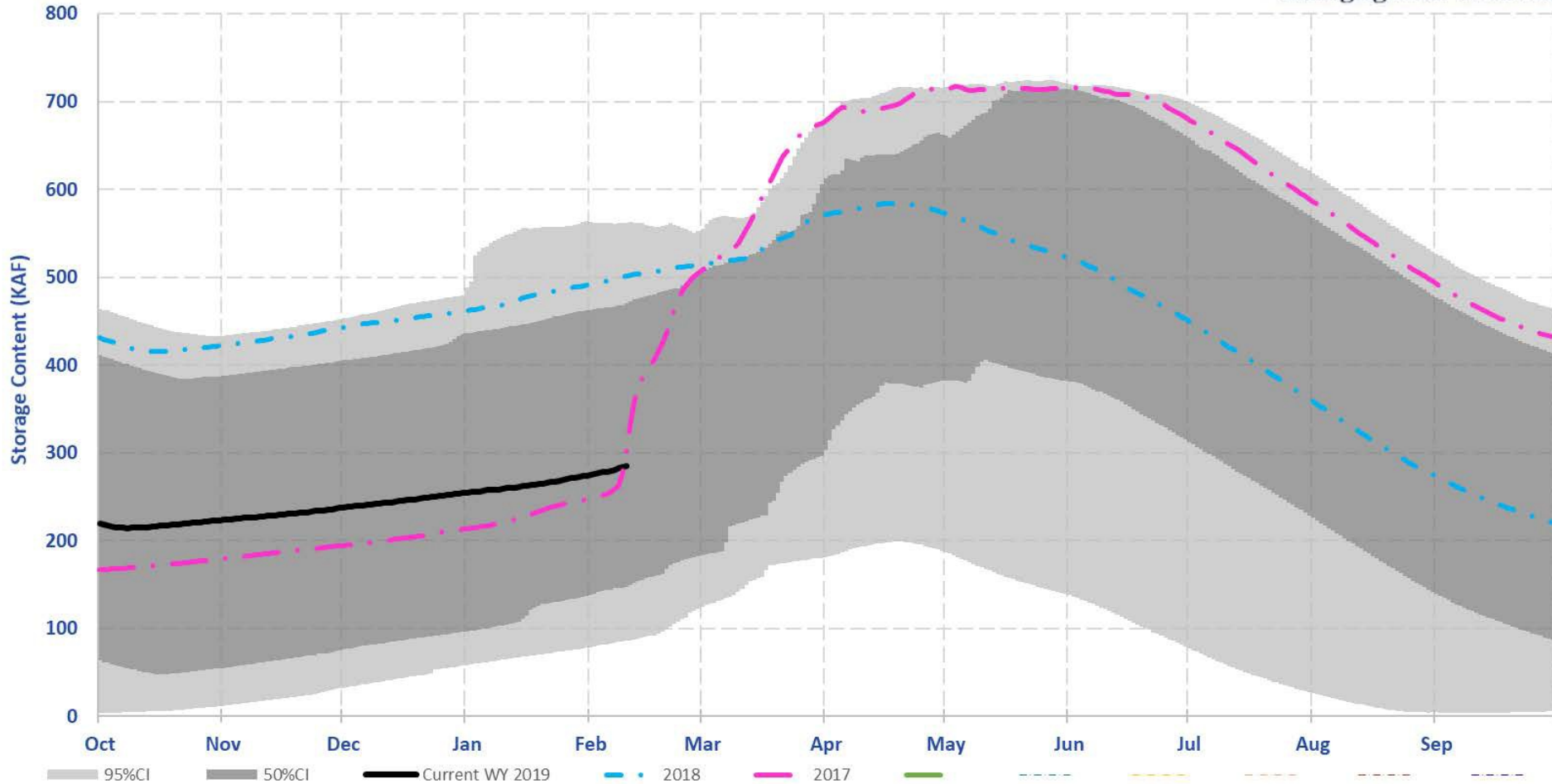


RECLAMATION

Owyhee River Basin: Owyhee

RECLAMATION
Managing Water in the West

OWY AF

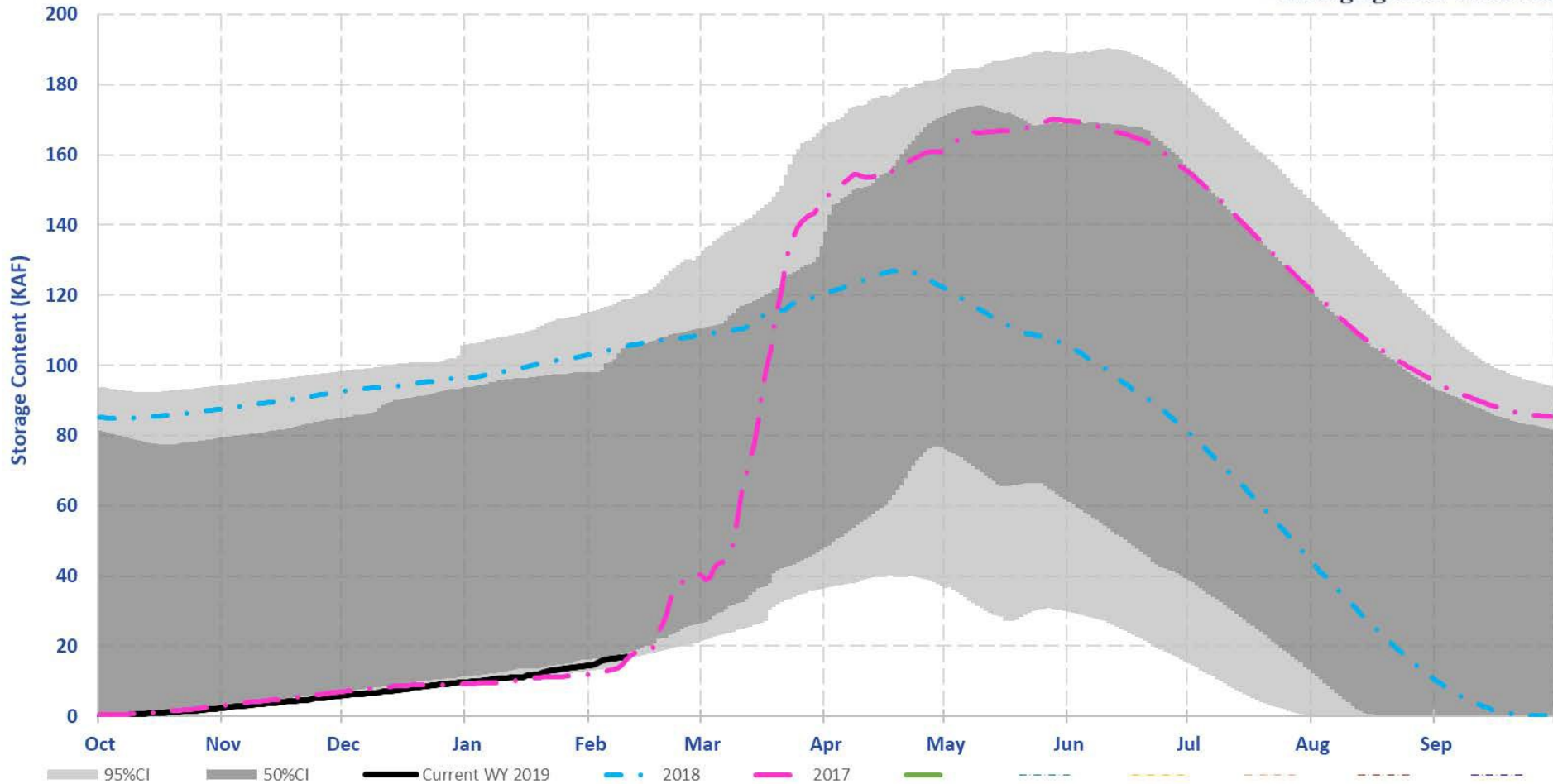


RECLAMATION

Malheur River Basin: Warm Springs

RECLAMATION
Managing Water in the West

WAR AF

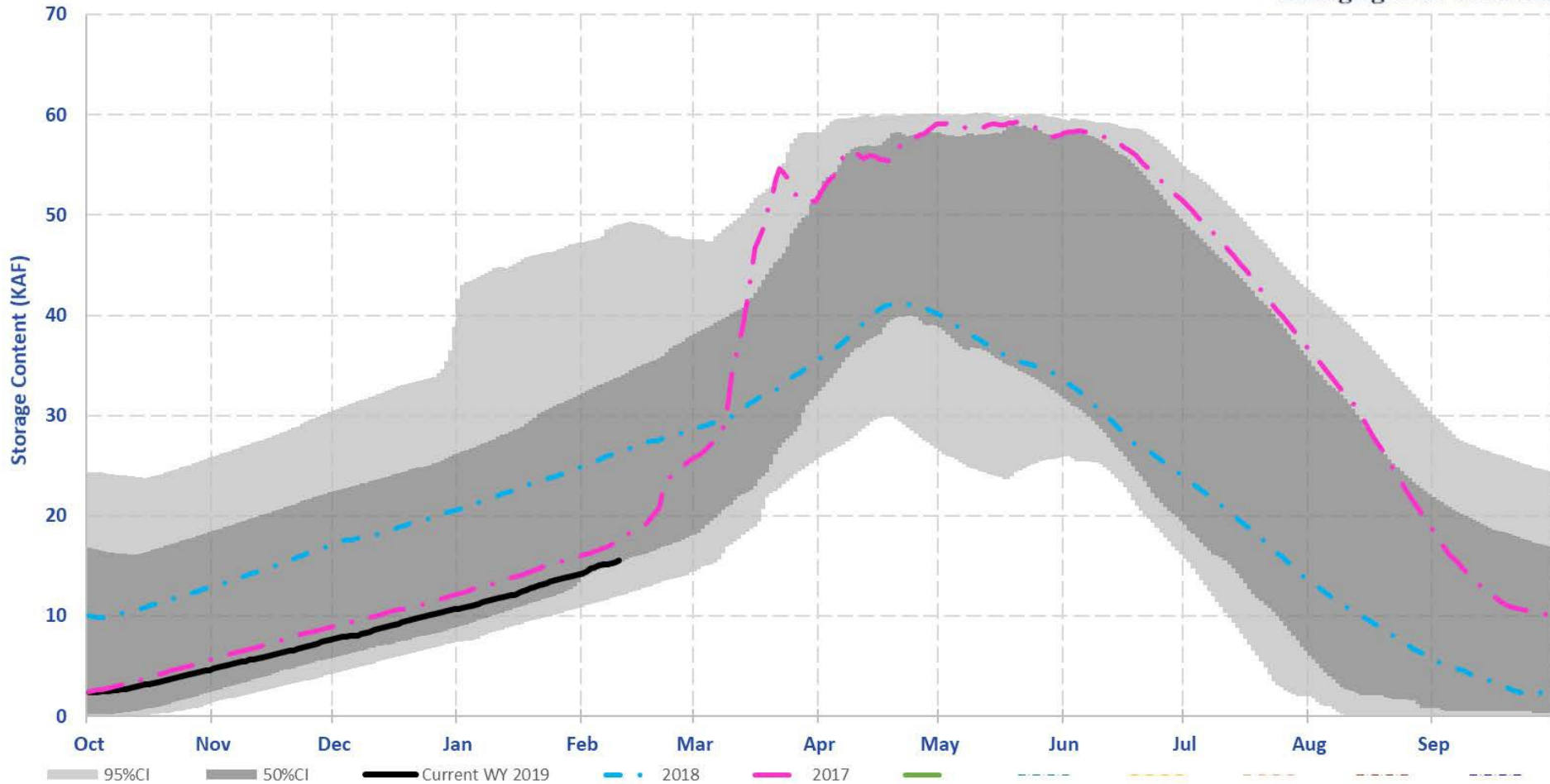


RECLAMATION

Malheur River Basin: Beulah

RECLAMATION
Managing Water in the West

BEU AF

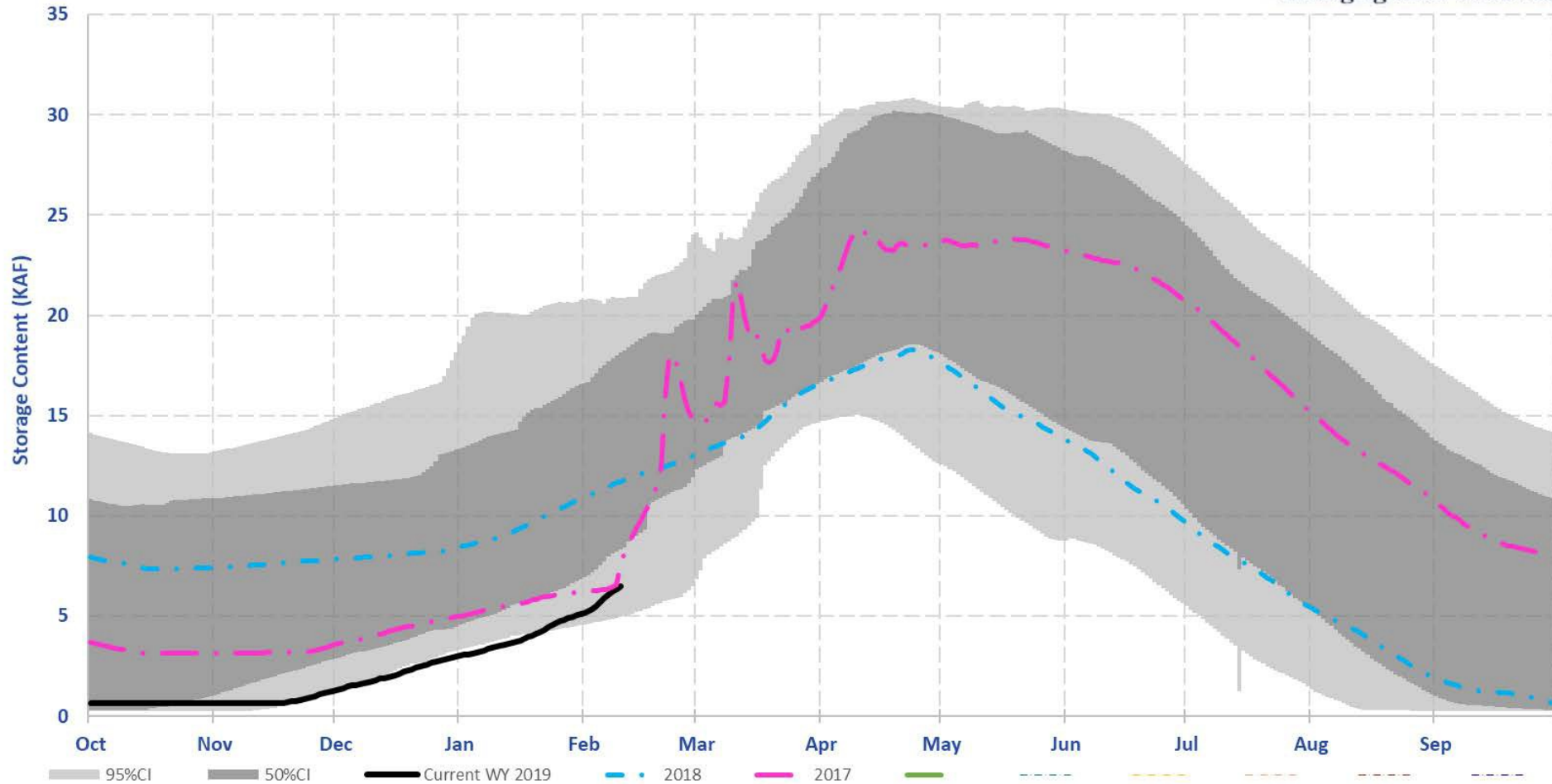


RECLAMATION

Malheur River Basin: Bully Creek

RECLAMATION
Managing Water in the West

BUL AF

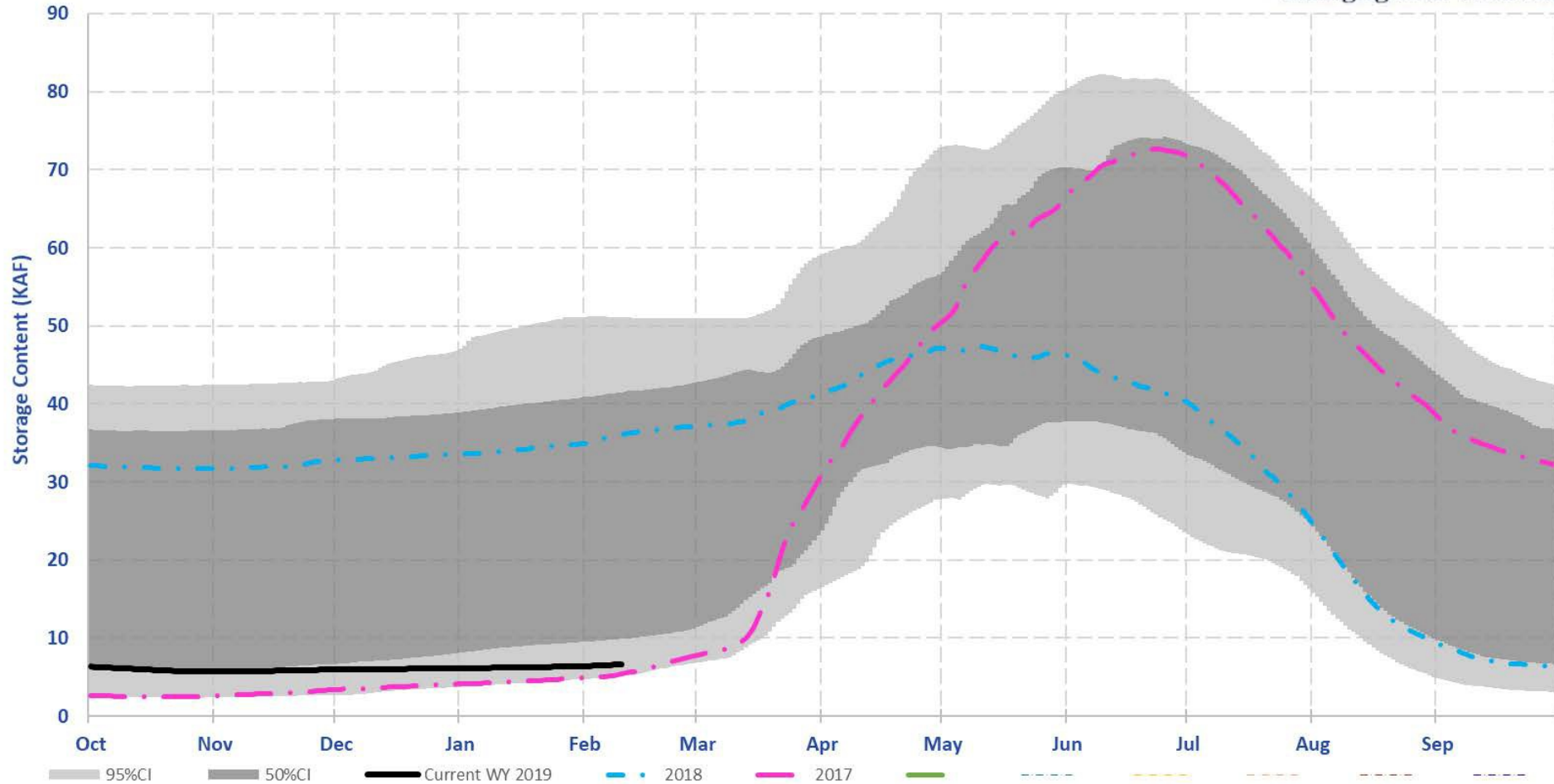


RECLAMATION

Powder River Basin: Phillips

RECLAMATION
Managing Water in the West

PHL AF

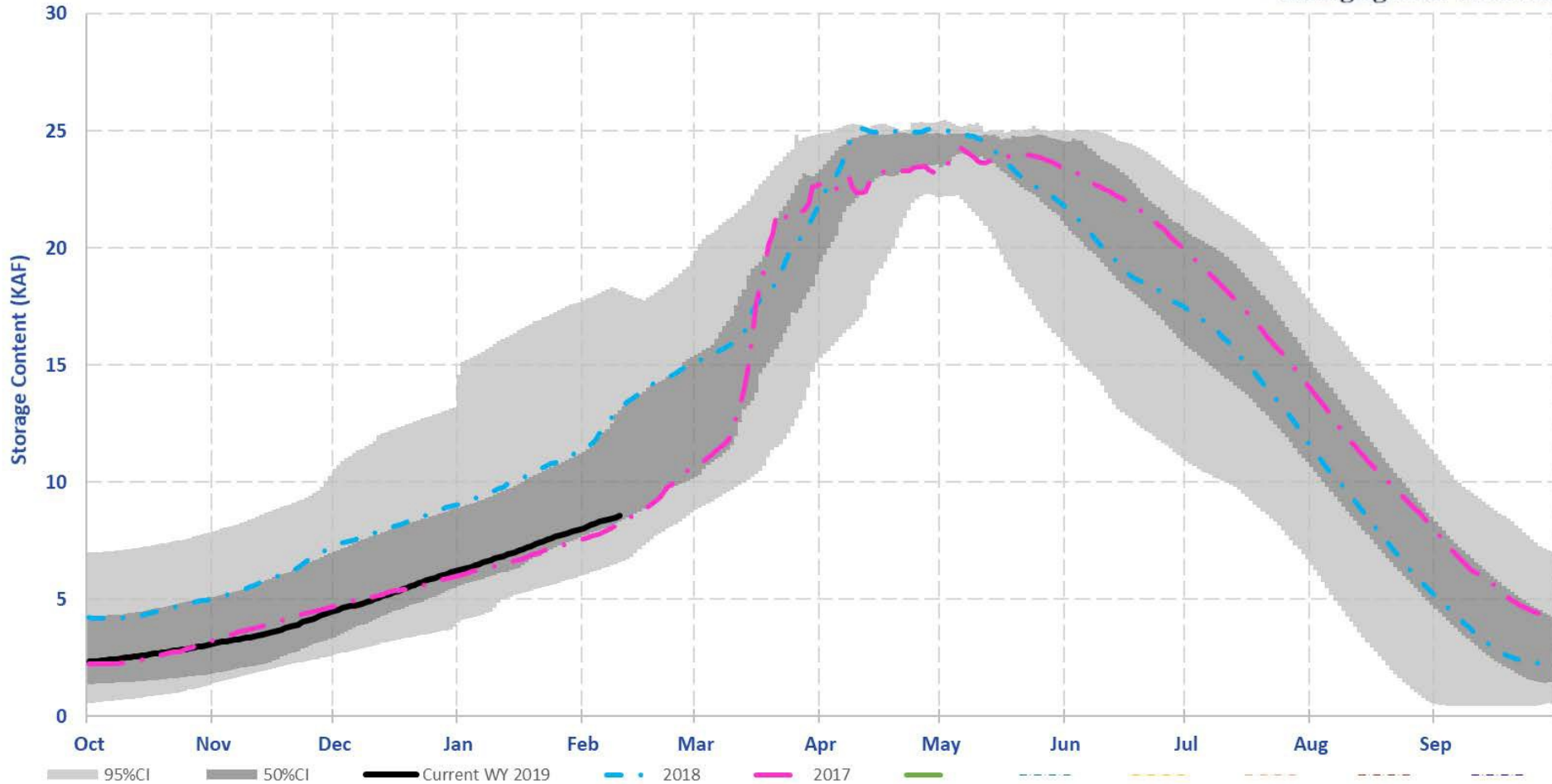


RECLAMATION

Burnt River Basin: Unity

RECLAMATION
Managing Water in the West

UNY 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

Questions



RECLAMATION