

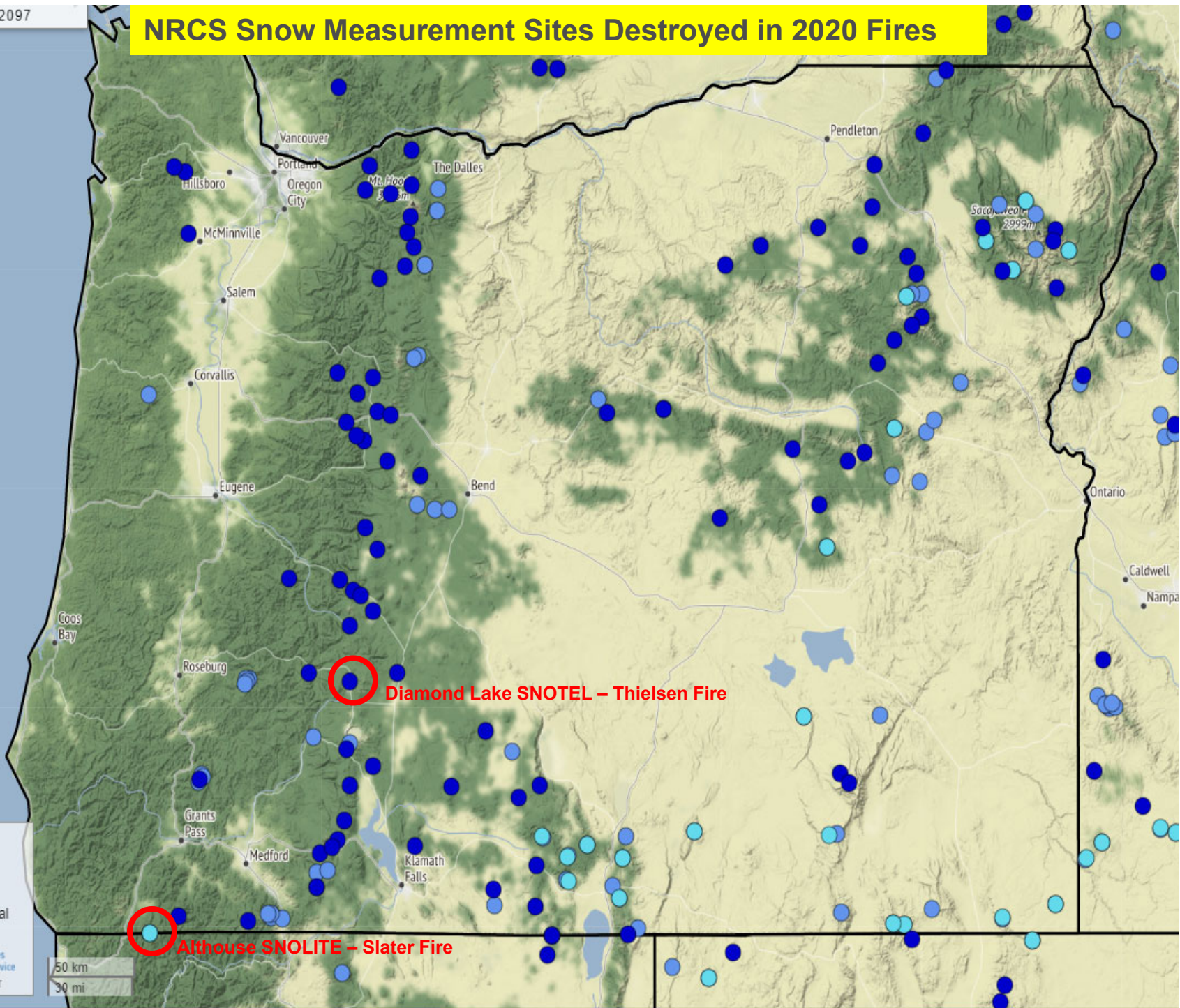
Diamond Lake SNOTEL
Re-Installed – 10/21/2020
Klamath Basin



Diamond Lake SNOTEL
Burned in Thielsen Fire – 09/09/2020
Klamath Basin

H. Scott Oviatt
Snow Survey Supervisory Hydrologist
USDA Natural Resources Conservation Service
Scott.Oviatt@or.usda.gov
503-414-3271
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/>

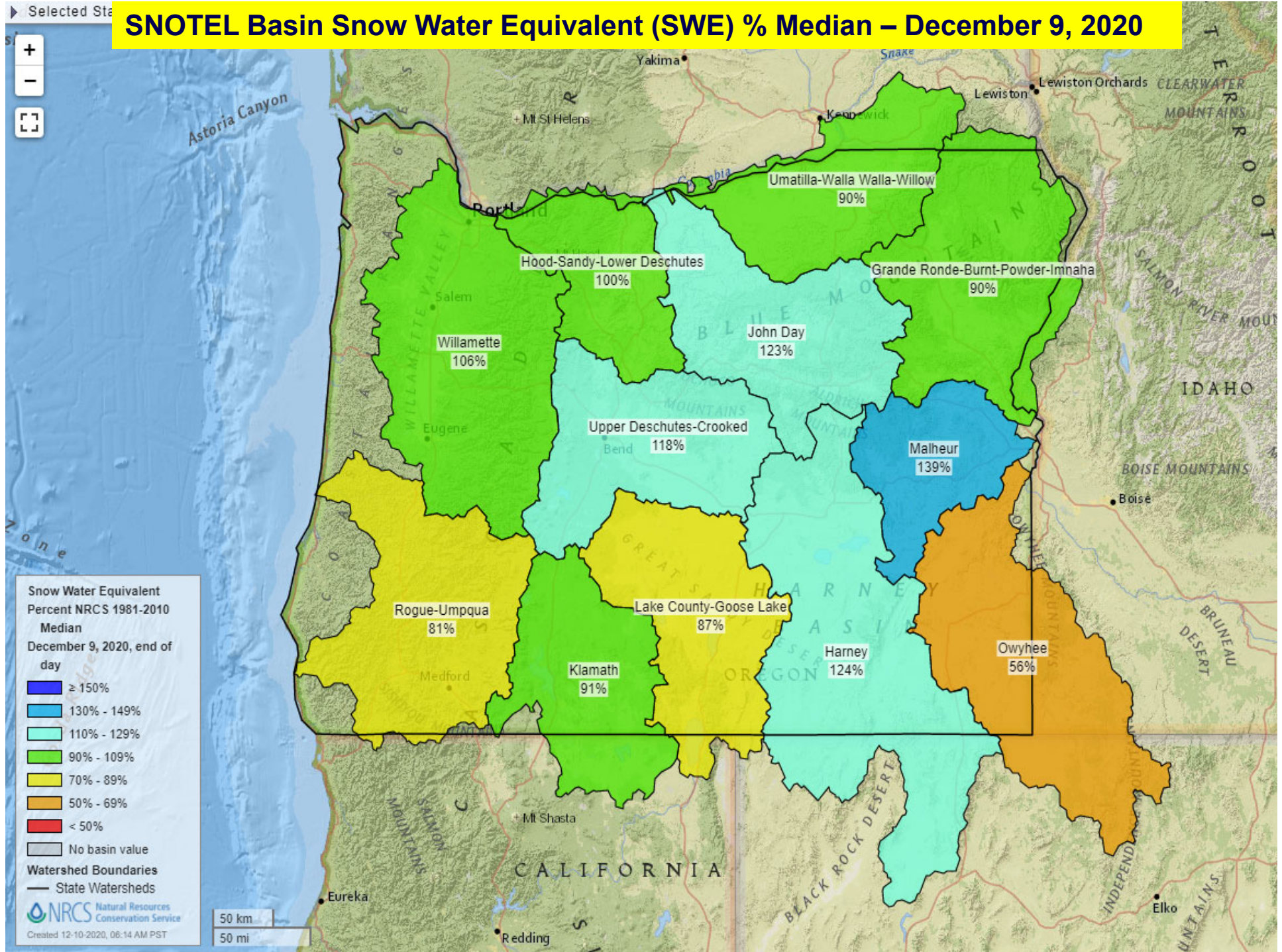
NRCS Snow Measurement Sites Destroyed in 2020 Fires



- Stations by Network
- SNOTEL
 - SNOLITE
 - Snow Course/Aerial Marker



SNOTEL Basin Snow Water Equivalent (SWE) % Median – December 9, 2020



Selected Stations: 996

SNOTEL Snow Water Equivalent Values – Inches SWE End of Day – December 9, 2020



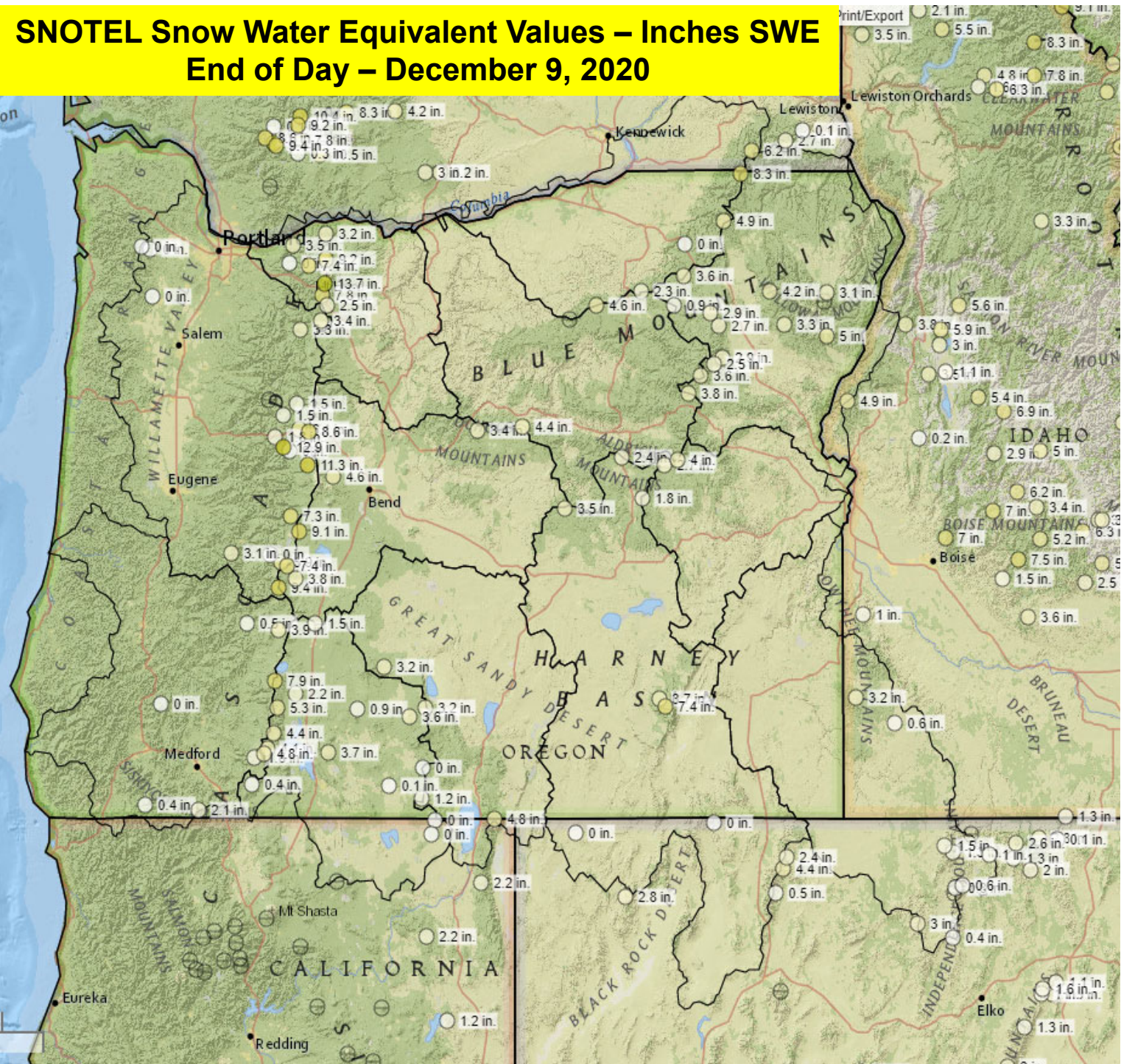
Snow Water Equivalent
December 9, 2020, end of day

Dark Blue	≥ 50 in.
Blue	43.75 in.
Light Blue	37.5 in.
Teal	31.25 in.
Green	25 in.
Light Green	18.75 in.
Yellow-Green	12.5 in.
Yellow	6.25 in.
White	≤ 0 in.

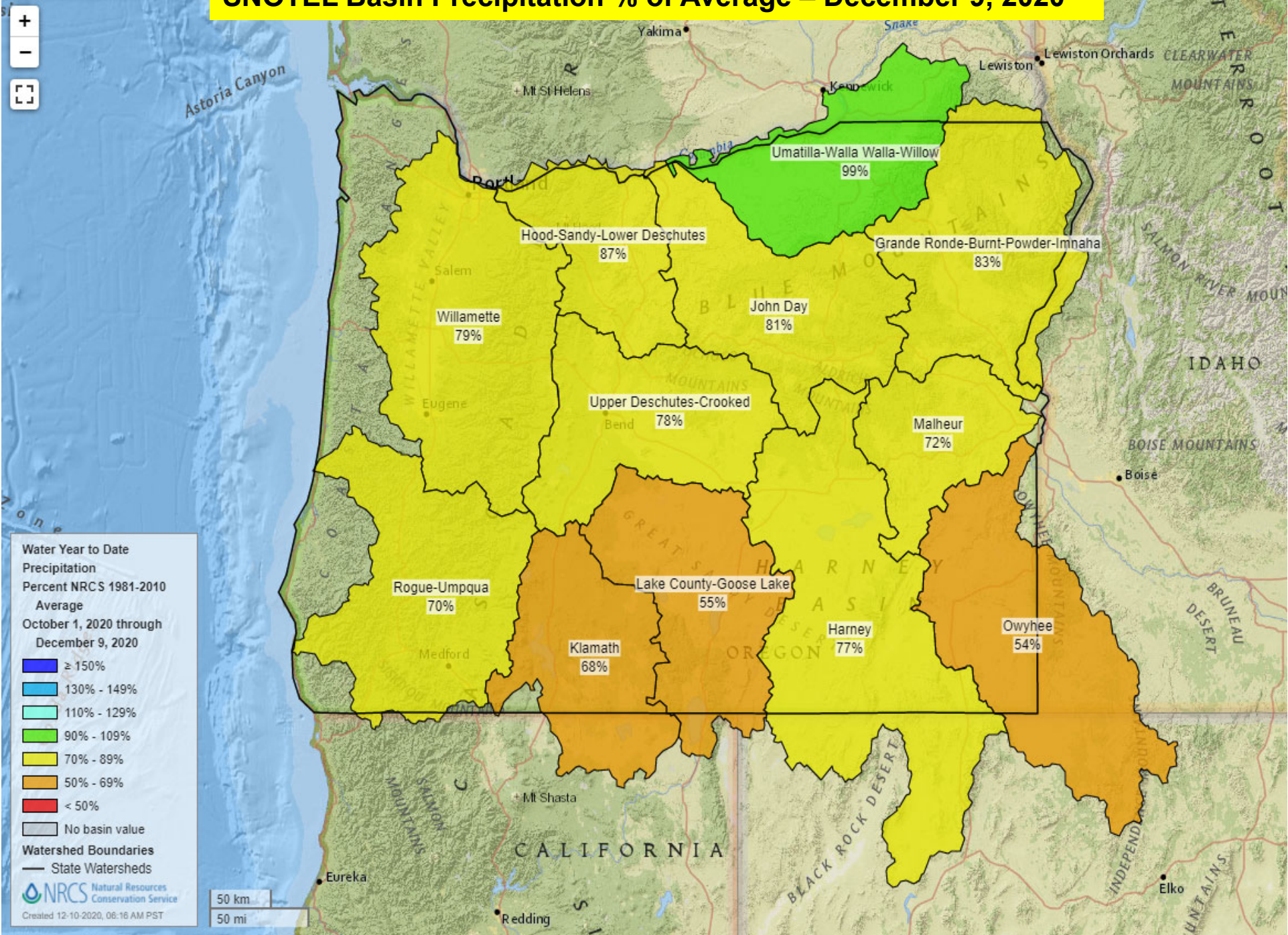
⊖ Observation missing
— Watershed Boundaries
— State Watersheds

NRCS Natural Resources Conservation Service
Created 12-10-2020, 06:22 AM PST

50 km
50 mi

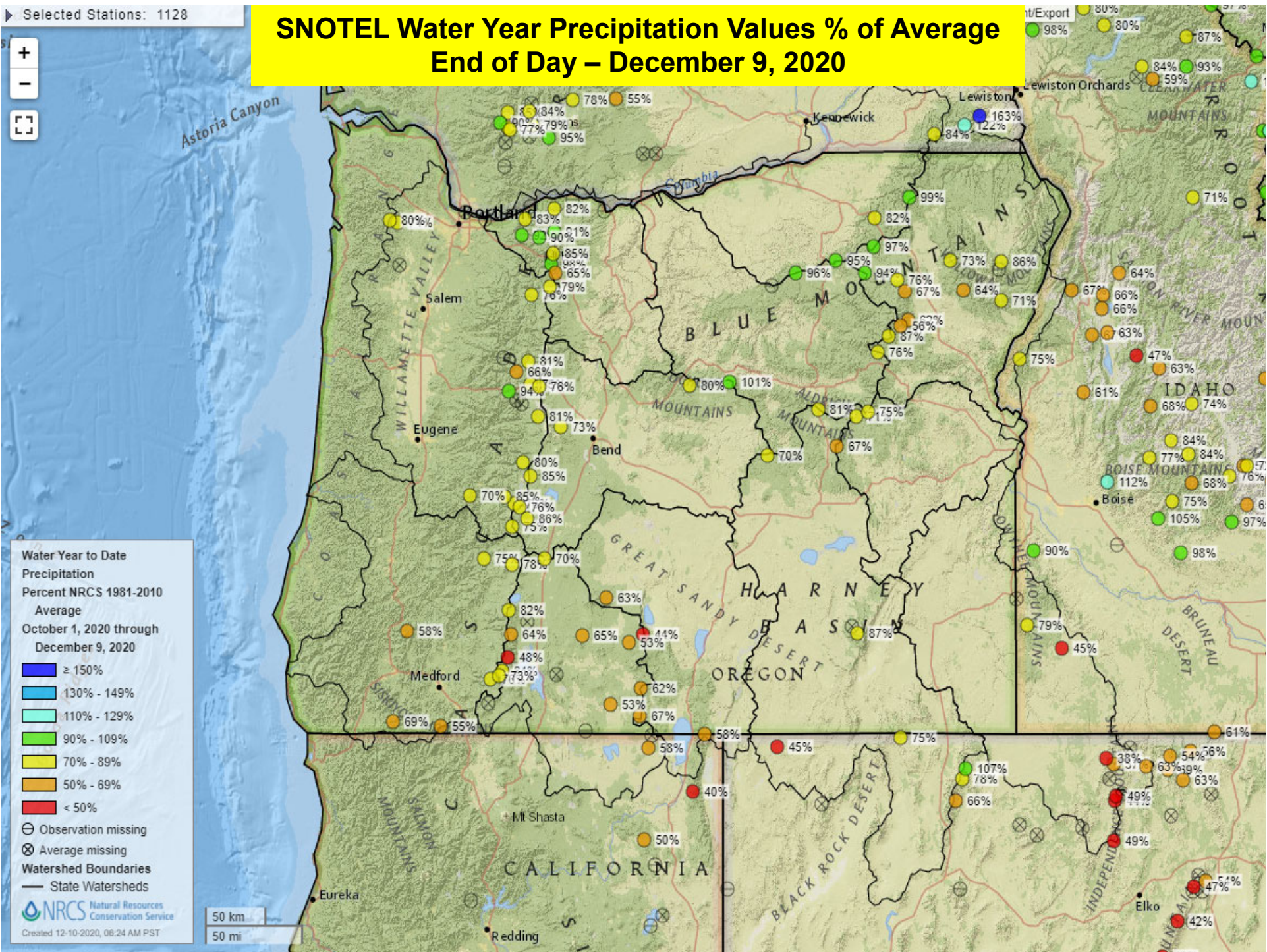


SNOTEL Basin Precipitation % of Average – December 9, 2020



Selected Stations: 1128

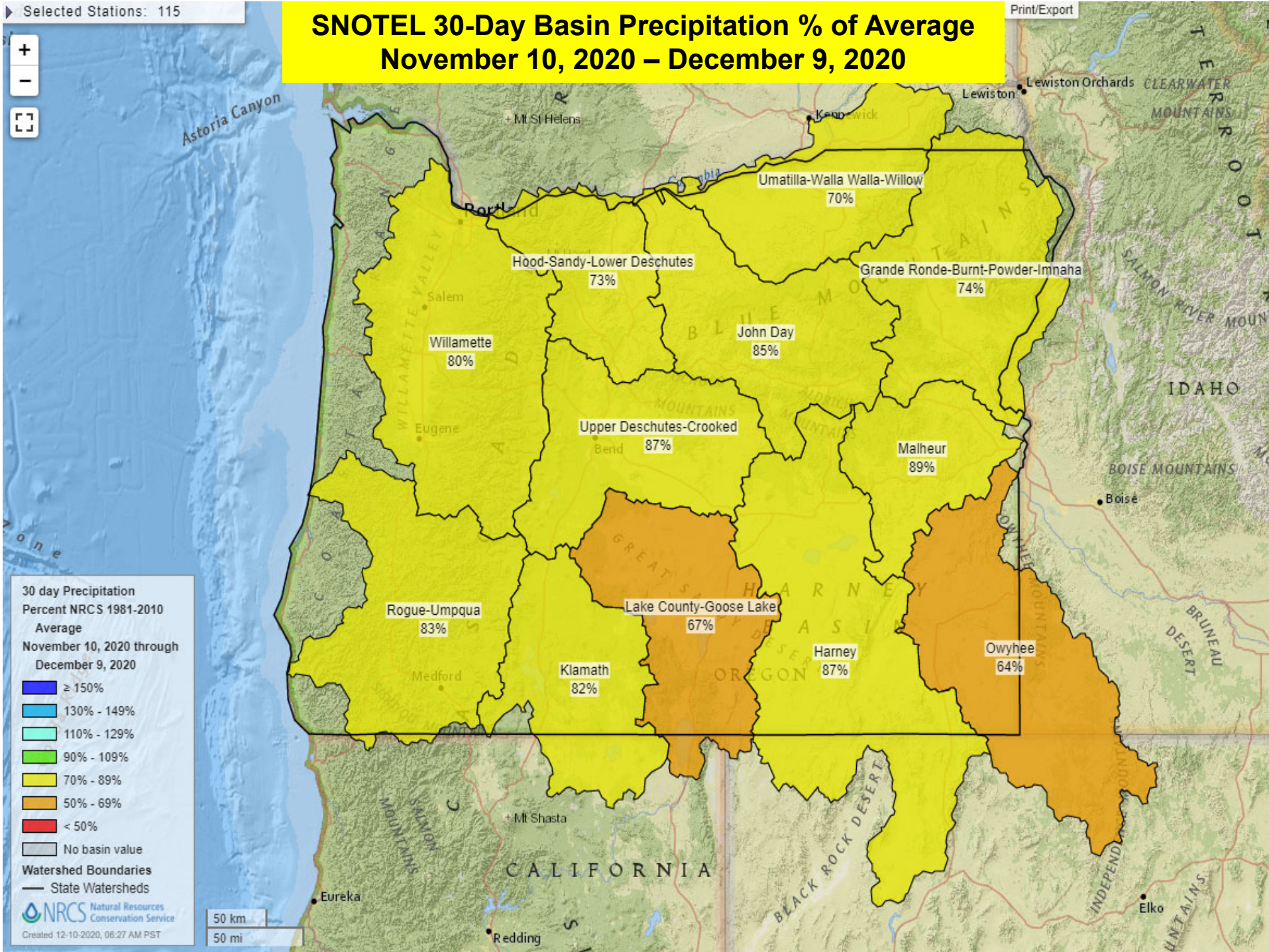
SNOTEL Water Year Precipitation Values % of Average End of Day – December 9, 2020



Selected Stations: 115

Print/Export

SNOTEL 30-Day Basin Precipitation % of Average November 10, 2020 – December 9, 2020



30 day Precipitation
Percent NRCS 1981-2010
Average
November 10, 2020 through
December 9, 2020

- ≥ 150%
- 130% - 149%
- 110% - 129%
- 90% - 109%
- 70% - 89%
- 50% - 69%
- < 50%
- No basin value

Watershed Boundaries
State Watersheds

NRCS Natural Resources Conservation Service
Created 12-10-2020, 06:27 AM PST

50 km
50 mi

Selected Stations: 1128

SNOTEL 30-Day Precipitation Values % of Average November 10, 2020 – December 9, 2020

Print/Export



30 day Precipitation
Percent NRCS 1981-2010
Average
November 10, 2020 through
December 9, 2020

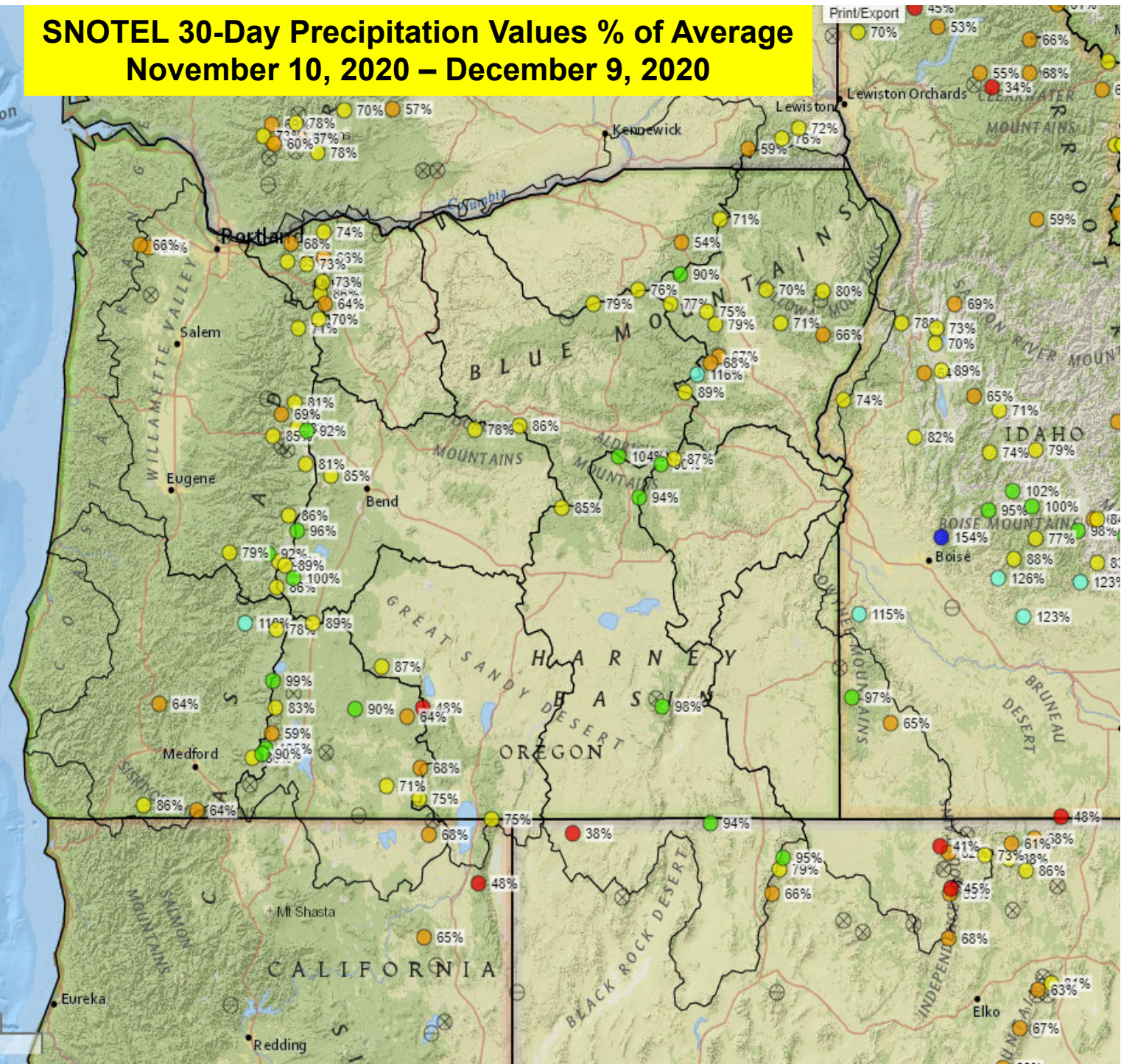
- ≥ 150%
- 130% - 149%
- 110% - 129%
- 90% - 109%
- 70% - 89%
- 50% - 69%
- < 50%

- ⊖ Observation missing
- ⊗ Average missing

Watershed Boundaries
— State Watersheds

Created 12-10-2020, 06:27 AM PST

50 km
50 mi



Selected Stations: 1128

SNOTEL Water Year Precipitation Percentile Values (POR) End of Day – December 9, 2020

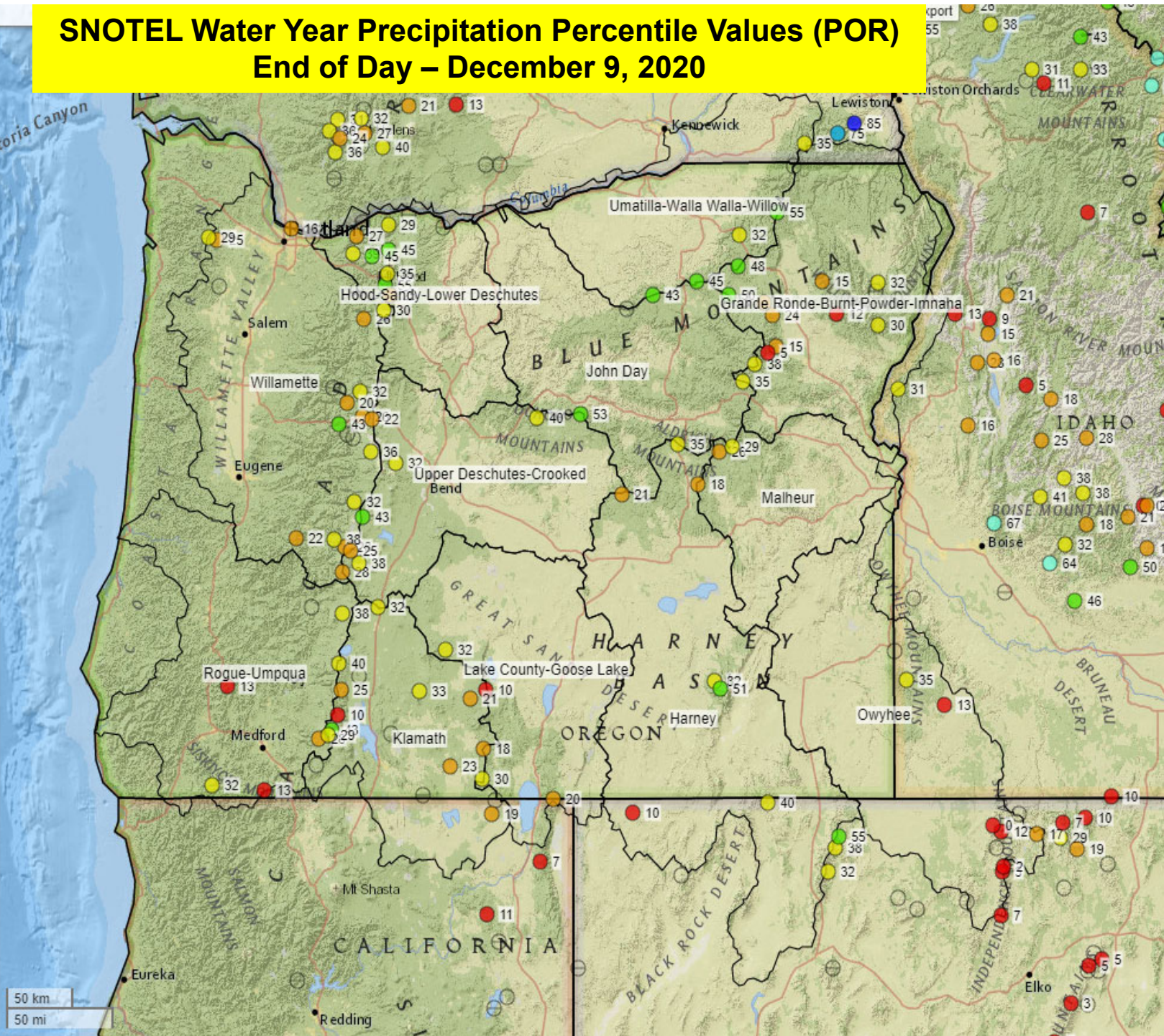


Water Year to Date
Precipitation
Percentile (POR)
October 1, 2020 through
December 9, 2020

Blue	≥ 85
Light Blue	71 - 84
Light Green	57 - 70
Green	43 - 56
Yellow	29 - 42
Orange	15 - 28
Red	< 15

⊖ Observation missing
Watershed Boundaries
— State Watersheds
Sites with less than 20 years of data
or low variability excluded

NRC Natural Resources
Conservation Service
Created 12-10-2020, 06:29 AM PST



Thank you – Questions?



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.

Diamond Lake SNOTEL
Re-Installed – 10/21/2020
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Burned in Thielsen Fire – 09/09/2020
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H. Scott Oviatt
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503-414-3271
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/>

Oregon WSAC

1

National Weather Service Precipitation & Temperatures Update

December 10, 2020

Andy Bryant

NOAA/NWS Portland
Weather Forecast Office

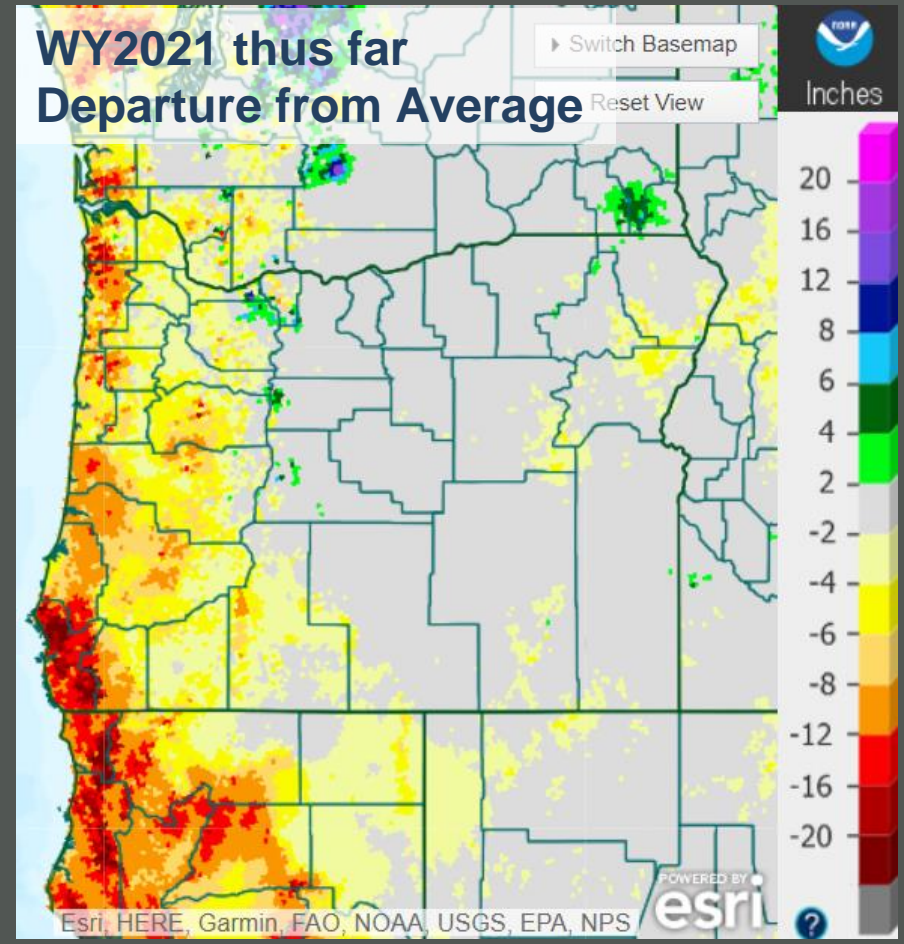
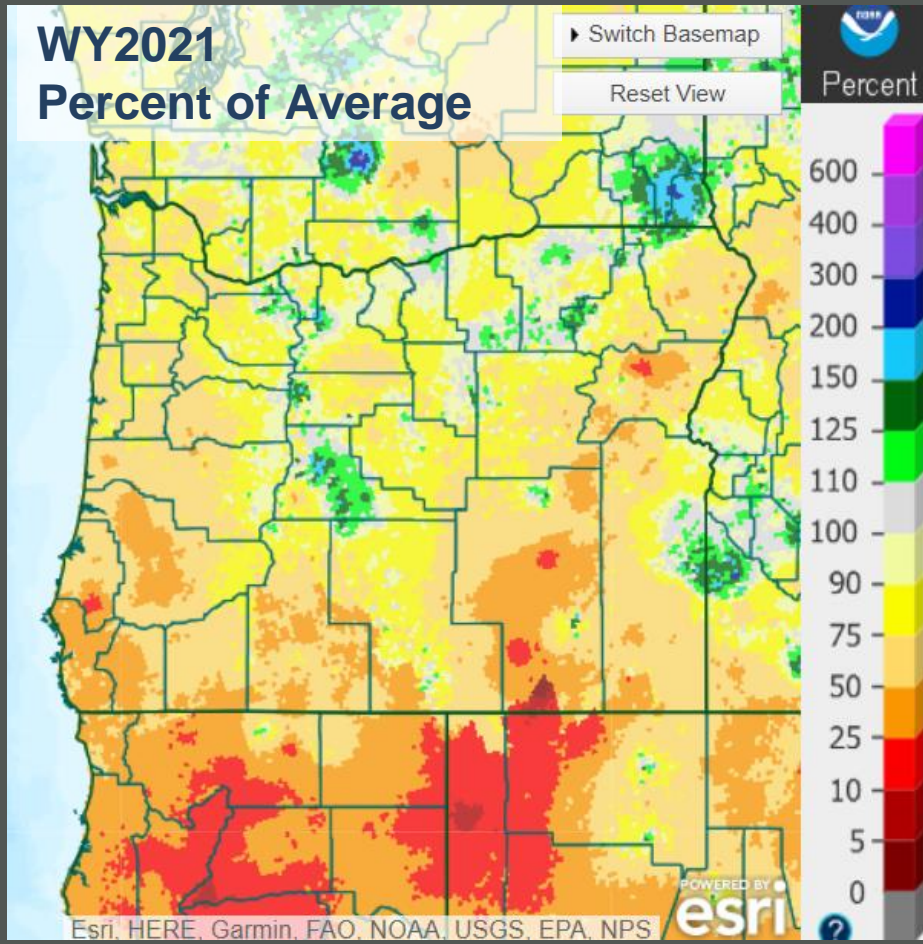
Henry Pai

NOAA/NWS Portland
Northwest River Forecast Center





Water Year Precipitation

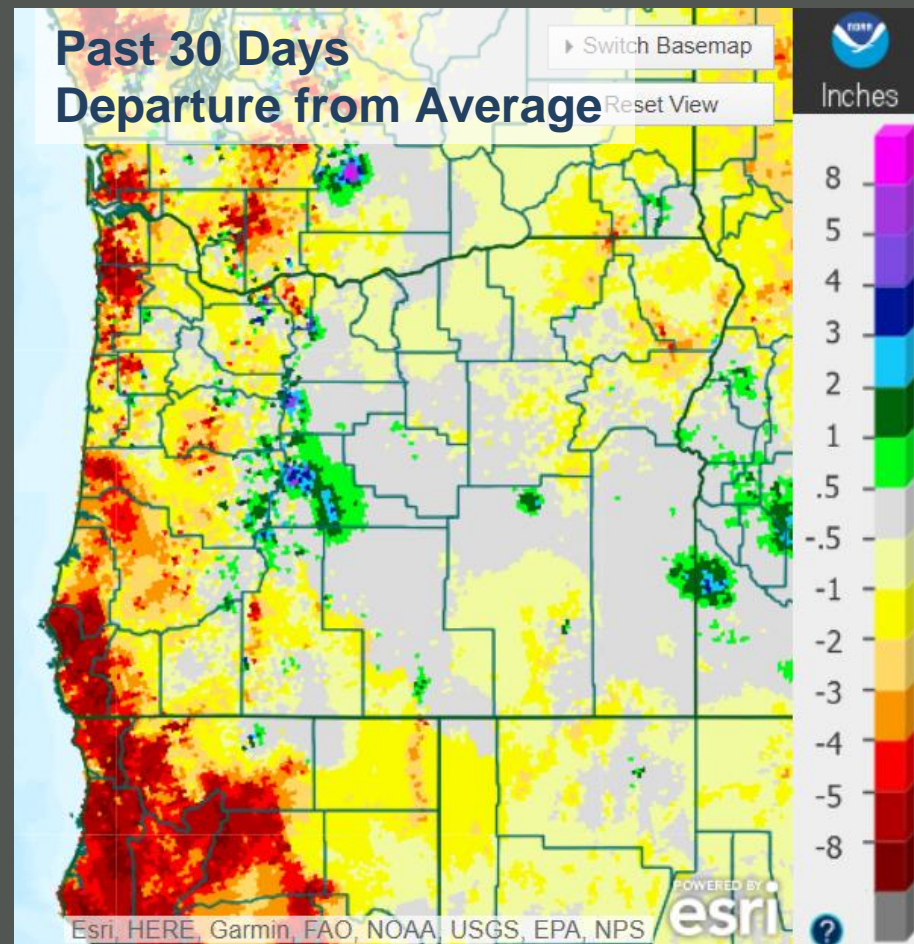
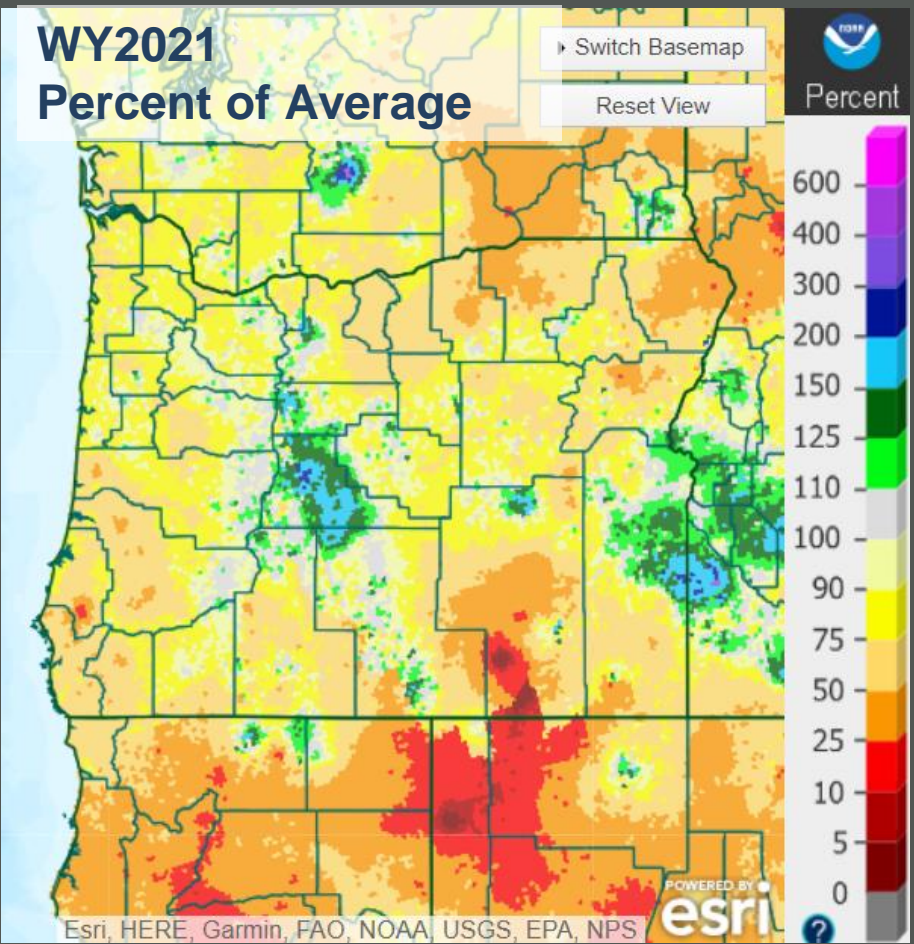


Precipitation Data as of December 9, 2020

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



Precipitation – Past 30 Days



Precipitation Data as of December 9, 2020

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



Recent Temperatures

October 2020

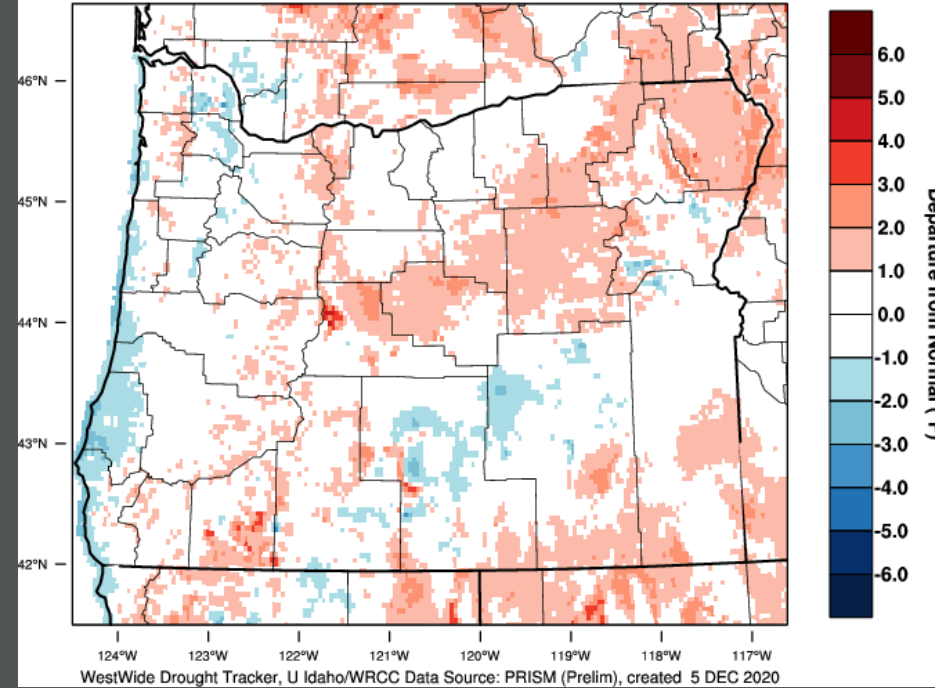
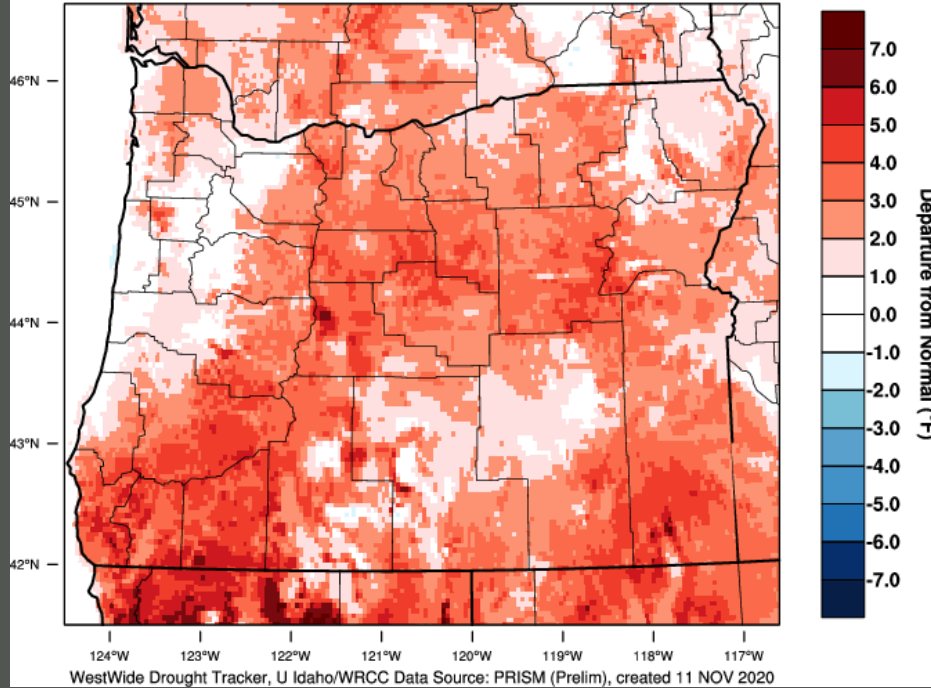
November 2020

Oregon - Mean Temperature

Oregon - Mean Temperature

October 2020 Departure from 1981-2010 Normal

November 2020 Departure from 1981-2010 Normal





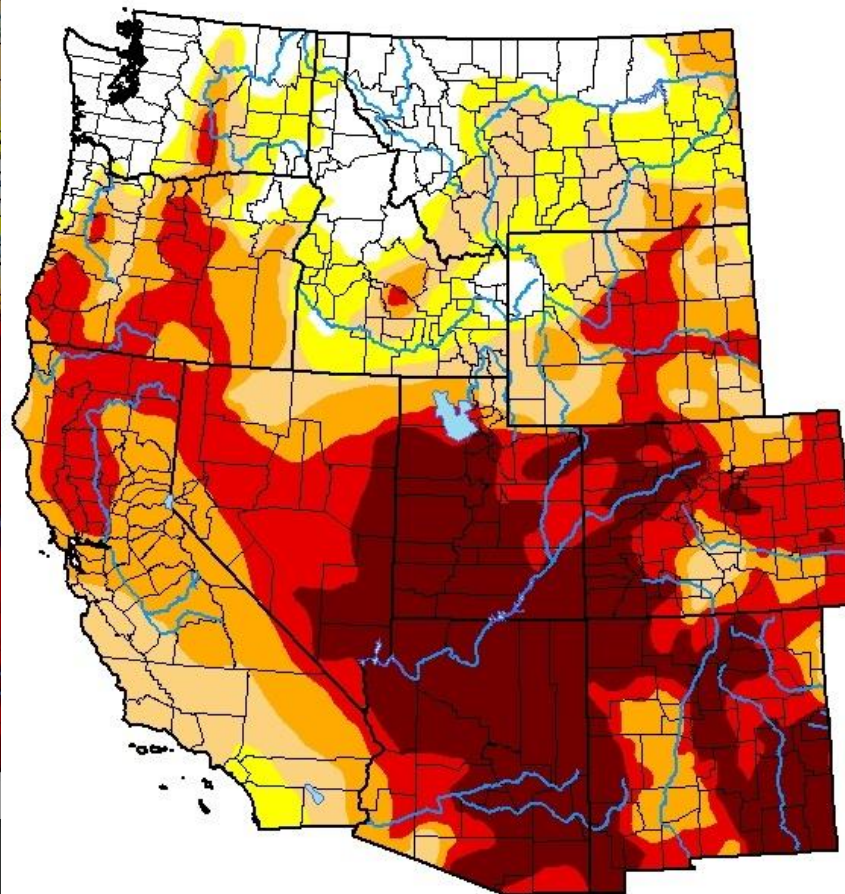
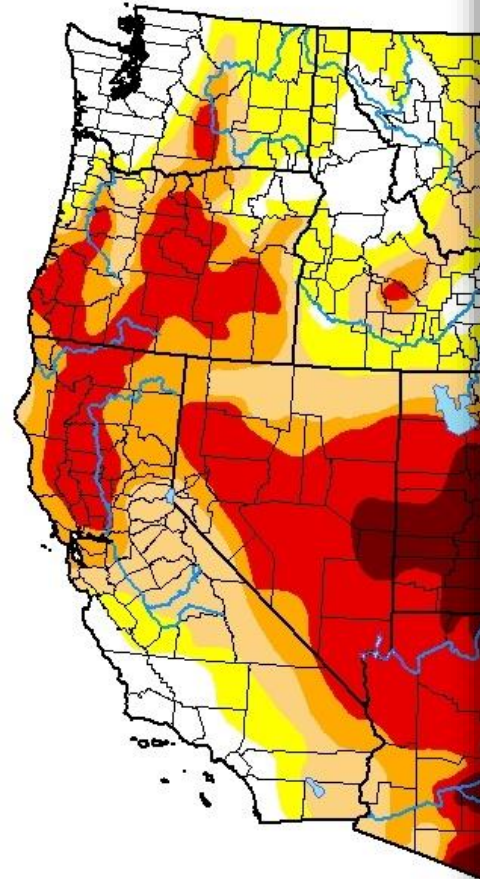
Drought Monitor

U.S. Drought Monitor West

November 10, 2020
(Released Thursday, Nov. 12, 2020)
Valid 7 a.m. EST

U.S. Drought Monitor West

December 8, 2020
(Released Thursday, Dec. 10, 2020)
Valid 7 a.m. EST



Intensity:

- None
- 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. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

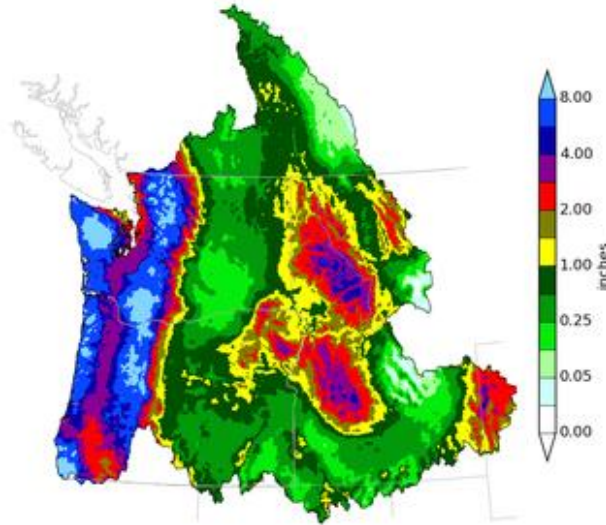
Author:

David Simeral
Western Regional Climate Center



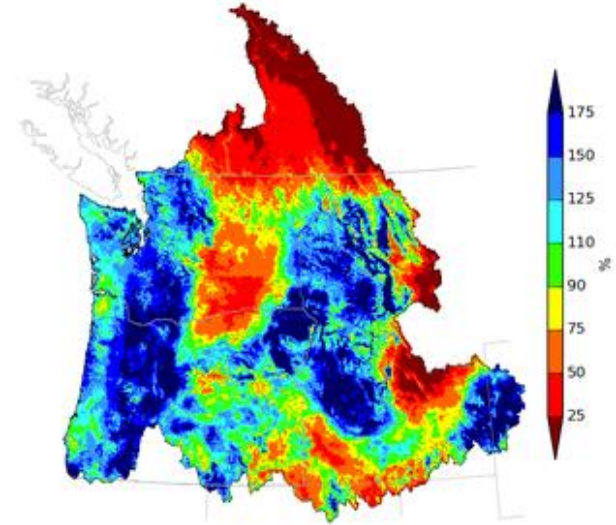
NWRFC 10-DAY PRECIPITATION

Northwest River Forecast Center
10 Day QPF, Ending 12Z, 12/20/20



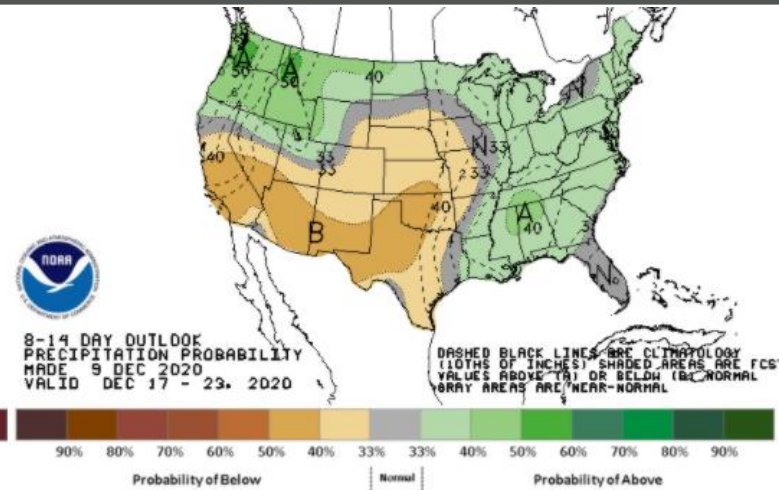
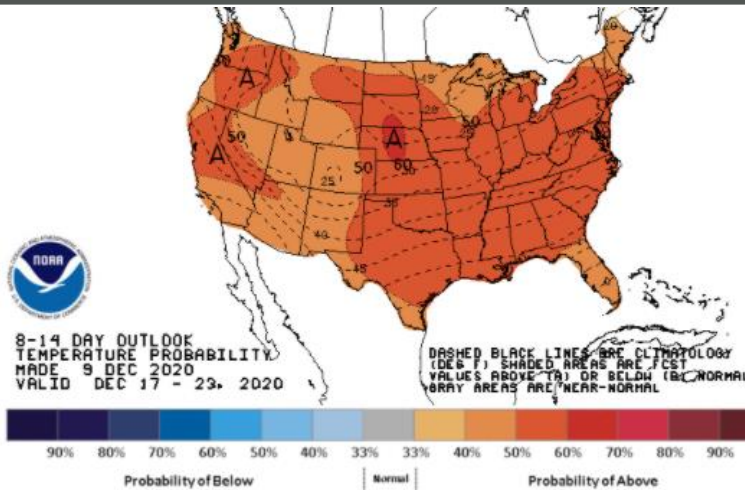
Creation Time: Thu Dec 10 15:16:15 UTC 2020

Northwest River Forecast Center
10 Day QPF (Percent of Climatology), Ending 12Z, 12/20/20



Creation Time: Thu Dec 10 15:17:03 UTC 2020

CPC 8 - 14 DAY OUTLOOK

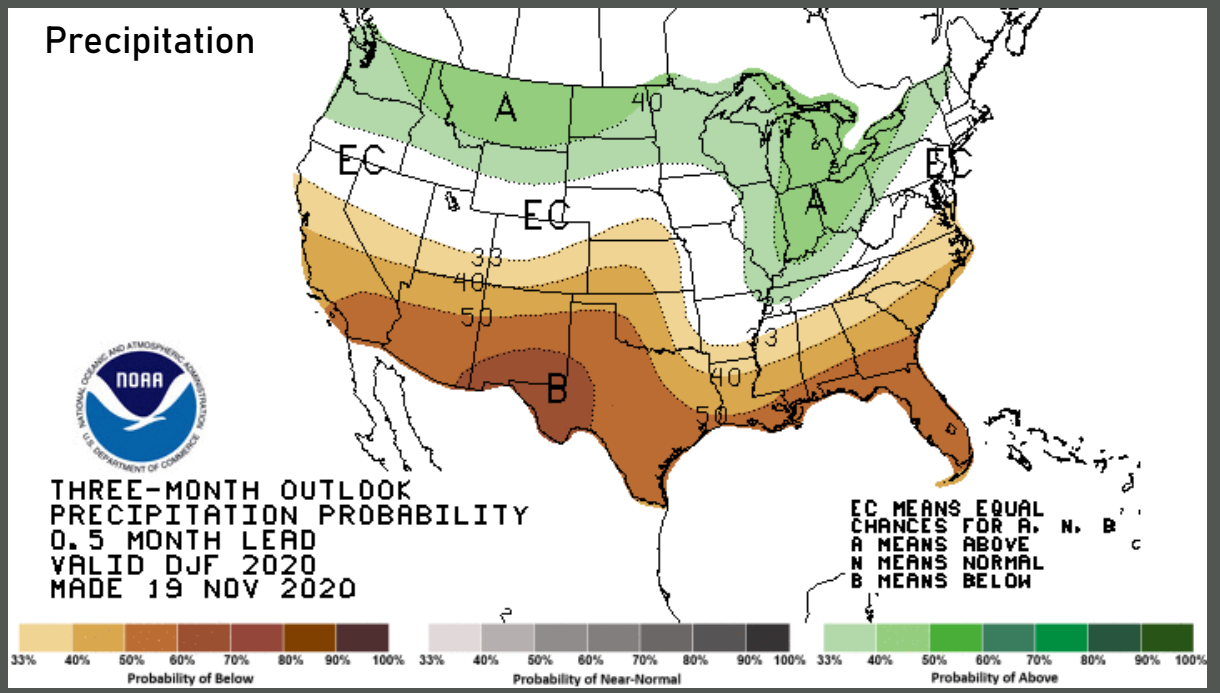
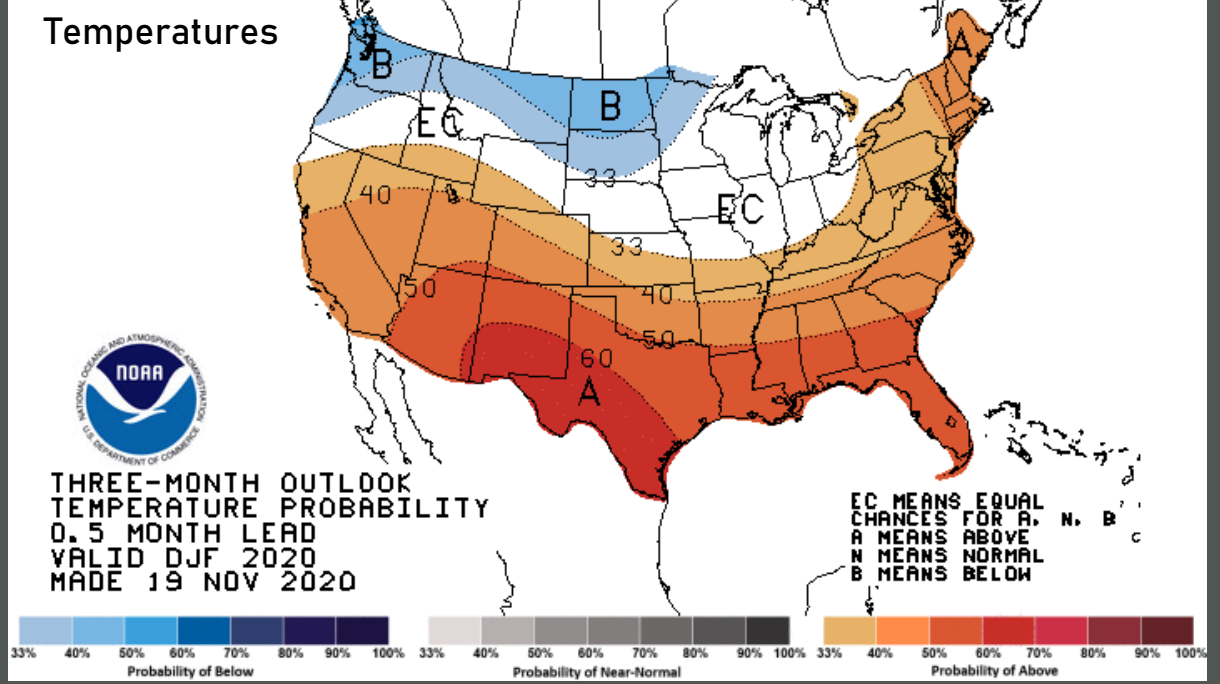




Climate Prediction Center Outlook

Dec 2020 – Feb 2021

La Niña Advisory in effect

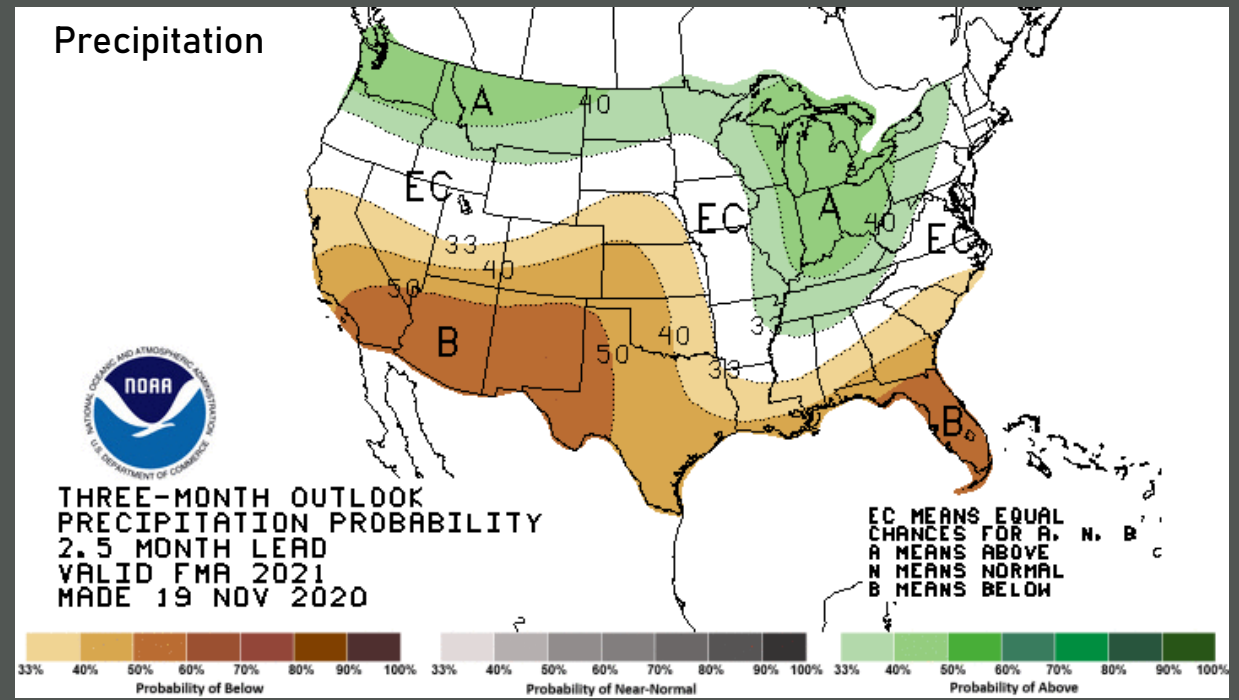
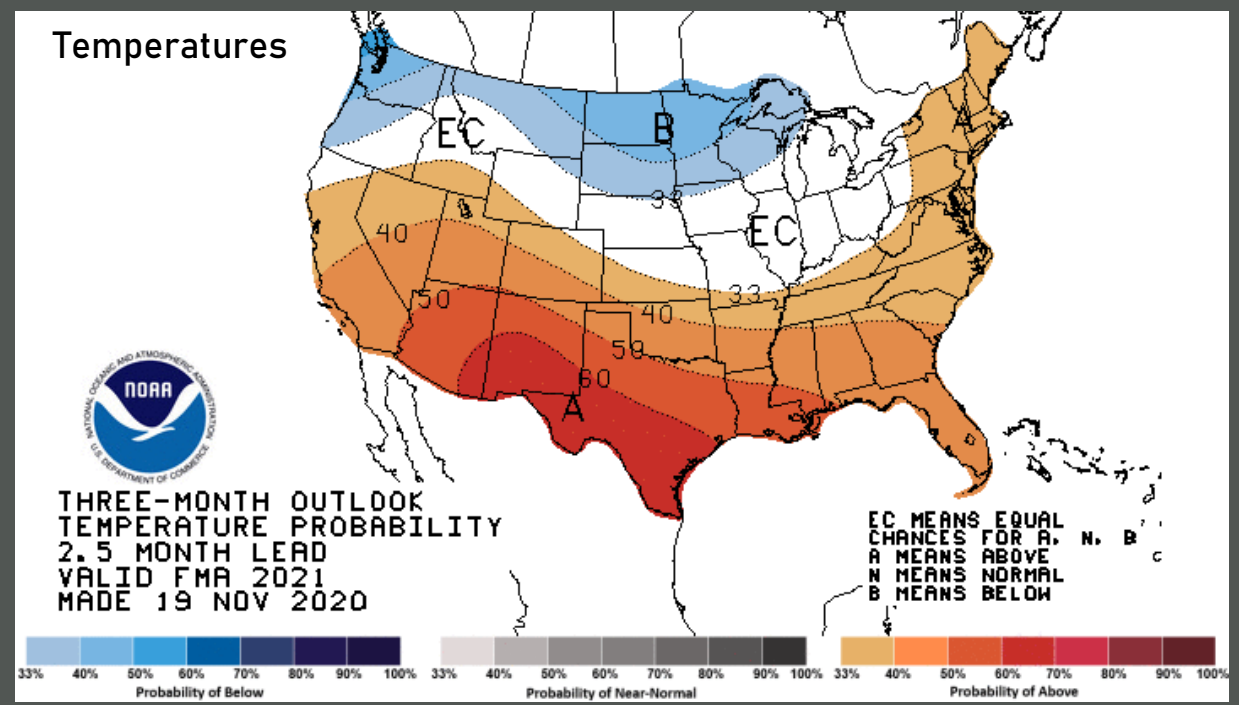




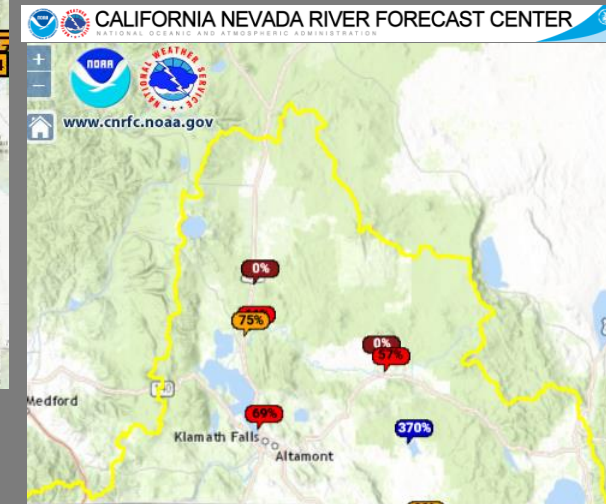
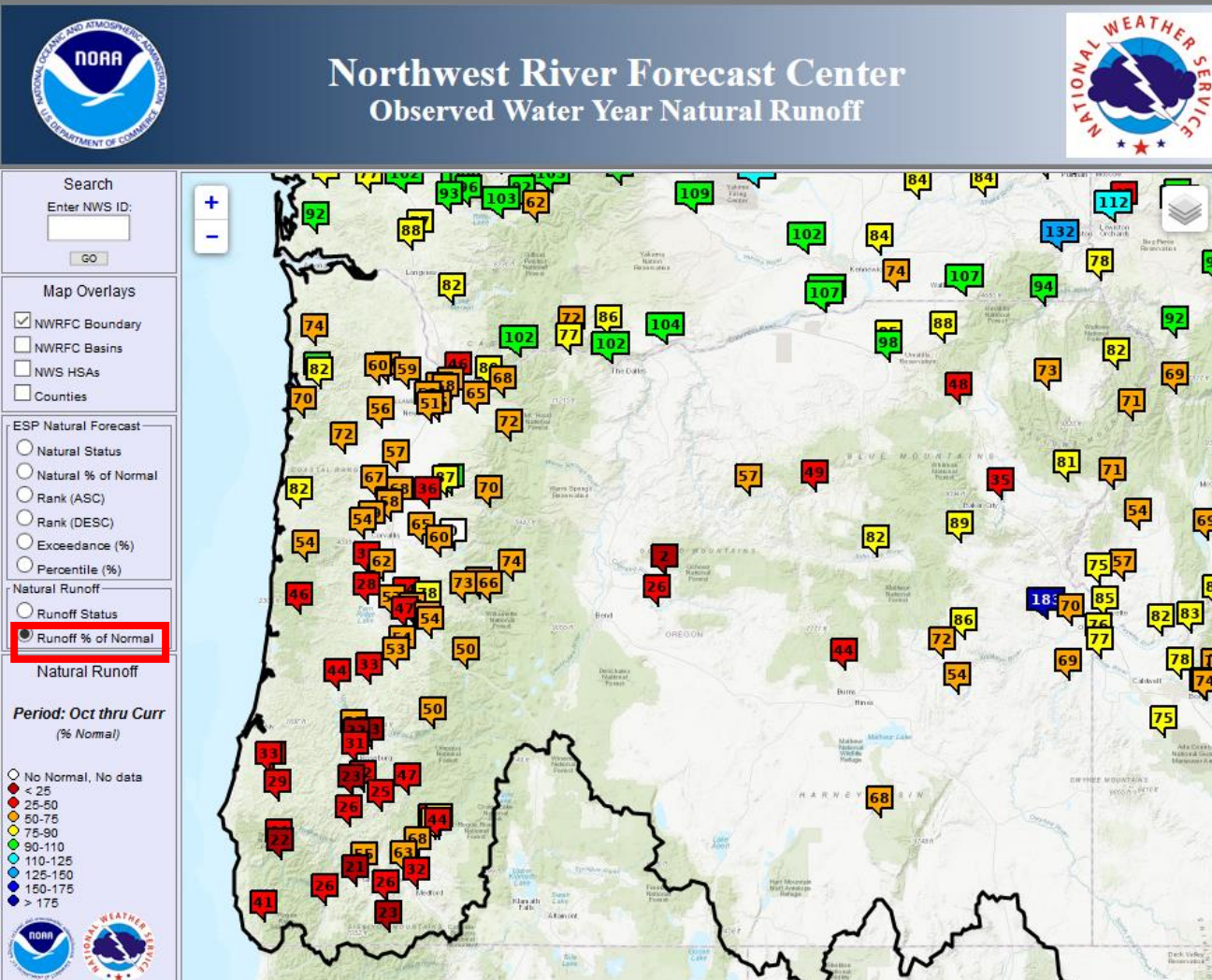
Climate Prediction Center Outlook

Feb - Apr 2021

La Niña Advisory in effect

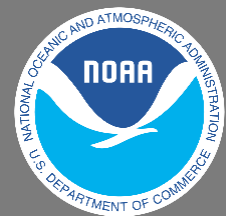


Observed Adjusted WY21 Runoff thus far

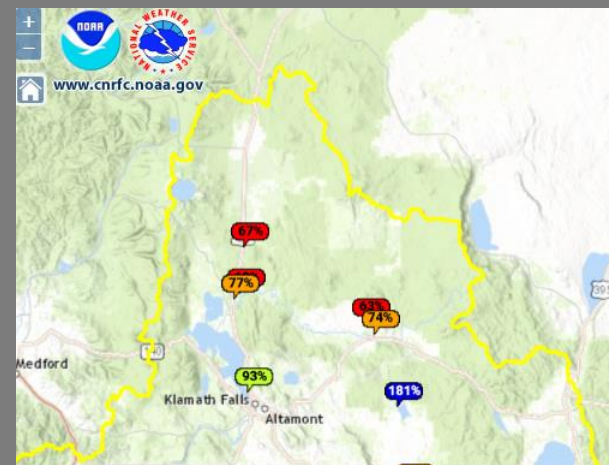
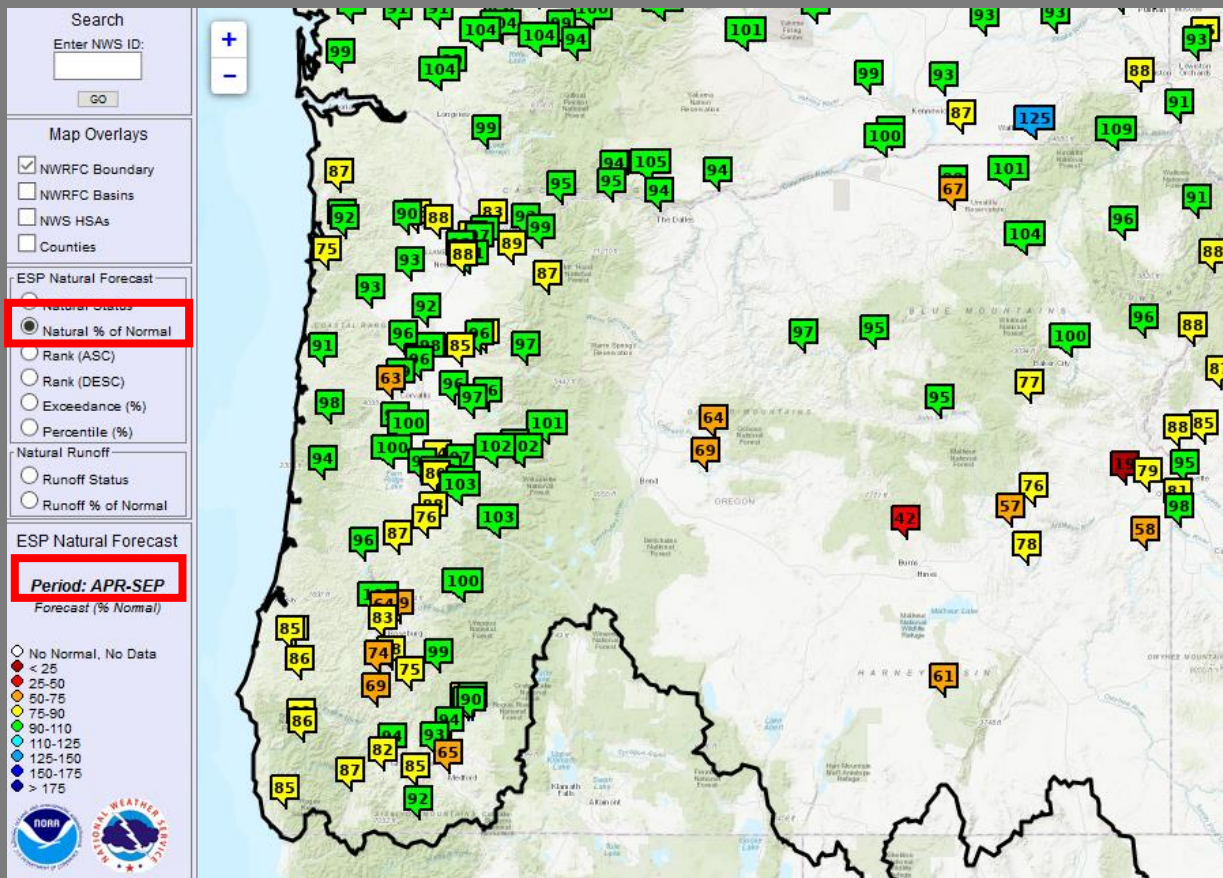
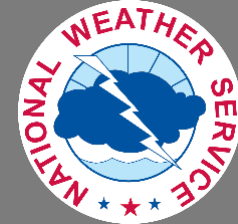


<https://www.nwrfc.noaa.gov/natural/index.html?version=20190313v1>

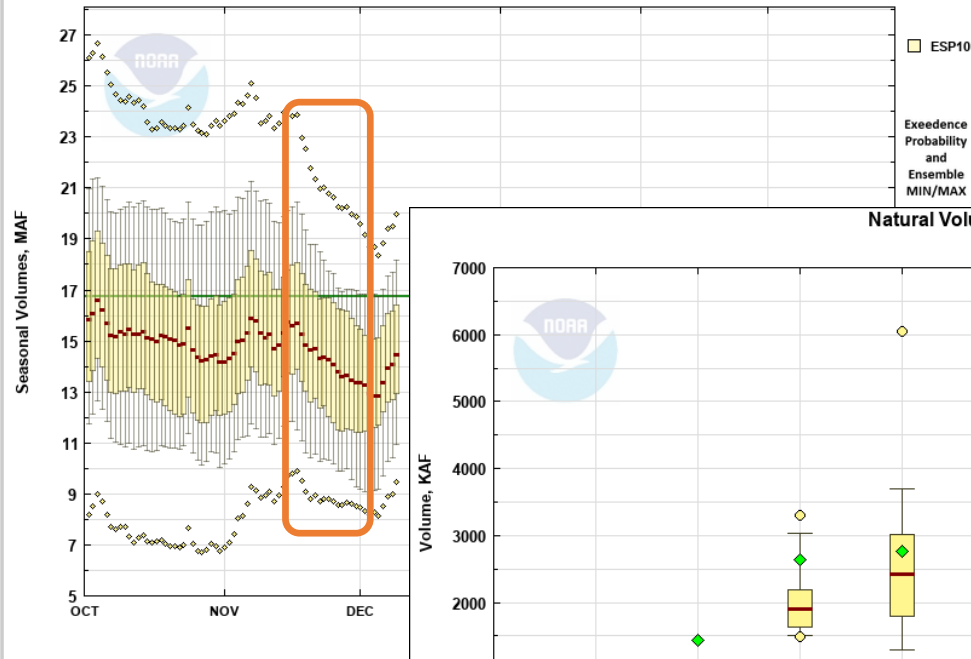
<https://www.cnrfc.noaa.gov/ol.php?product=espWS>



WY21 Apr-Sep Forecast, Percent of Normal

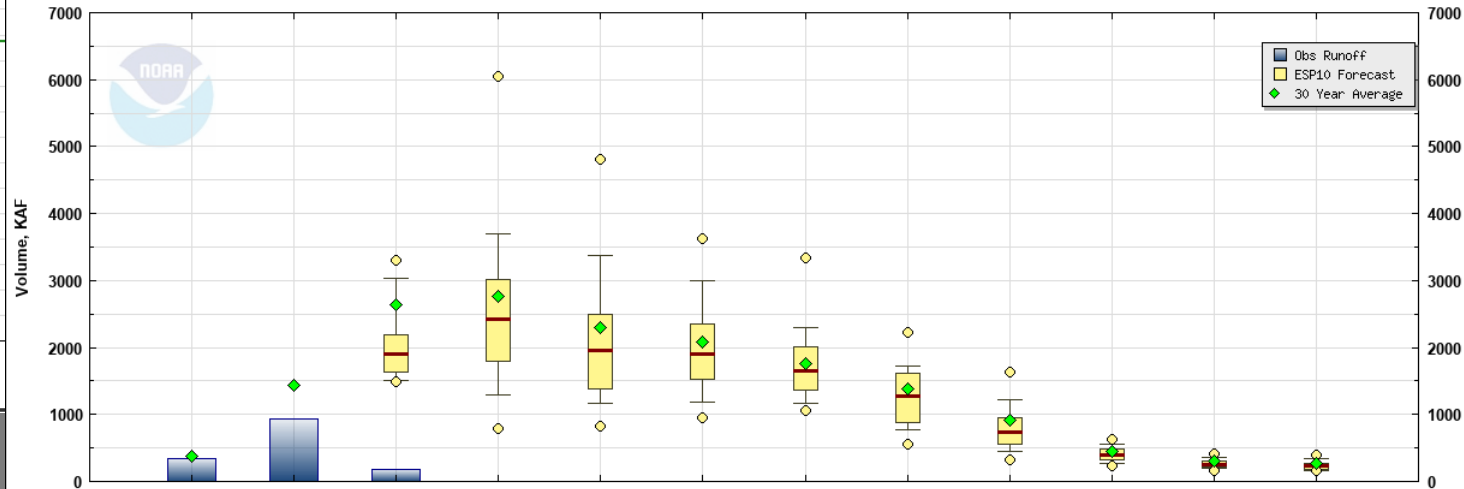


Natural Volume Forecasts
WILLAMETTE - AT SALEM
 Period OCT to SEP -- Water Year 2021

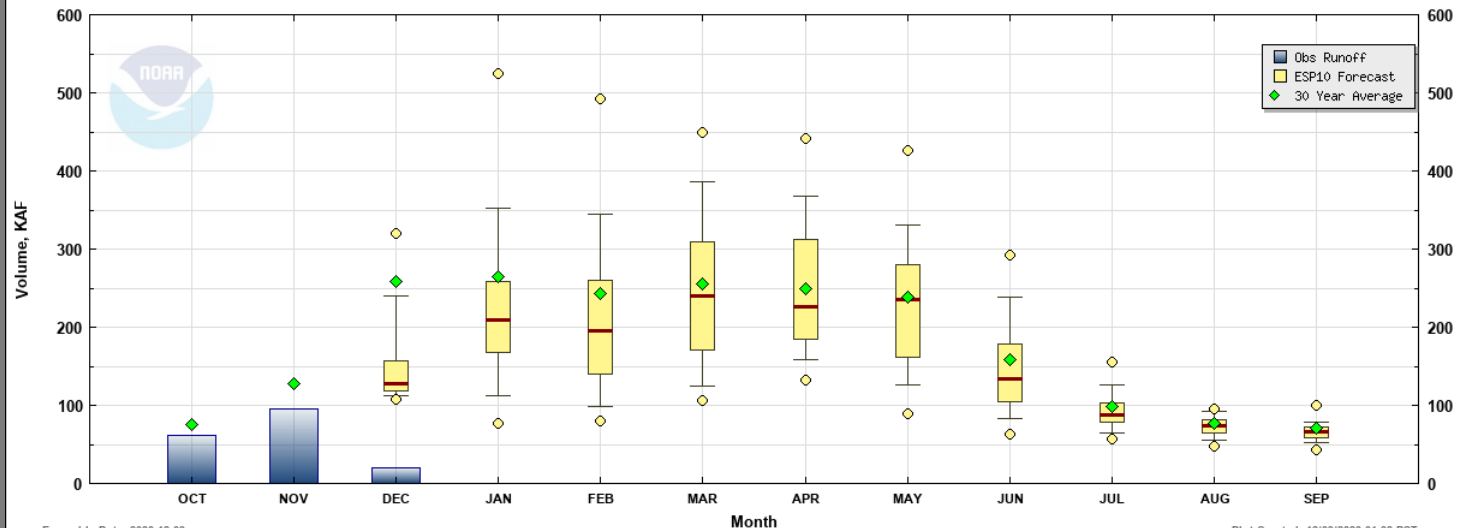


West OR WY21 Forecast Progression

Natural Volume Monthly Forecasts (ESP10) for Water Year 2021
 (SLMO3) WILLAMETTE - AT SALEM



Natural Volume Monthly Forecasts (ESP10) for Water Year 2021
 (RYG03) ROGUE - AT RAYGOLD

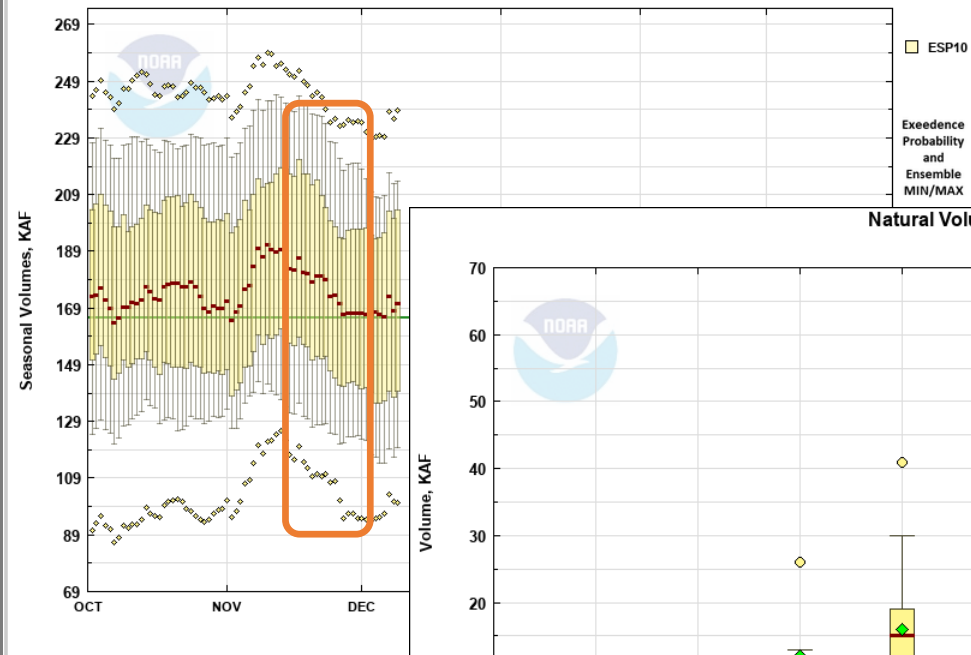


Ensemble Date: 2020-12-09

Plot Created: 12/09/2020 01:32 PST

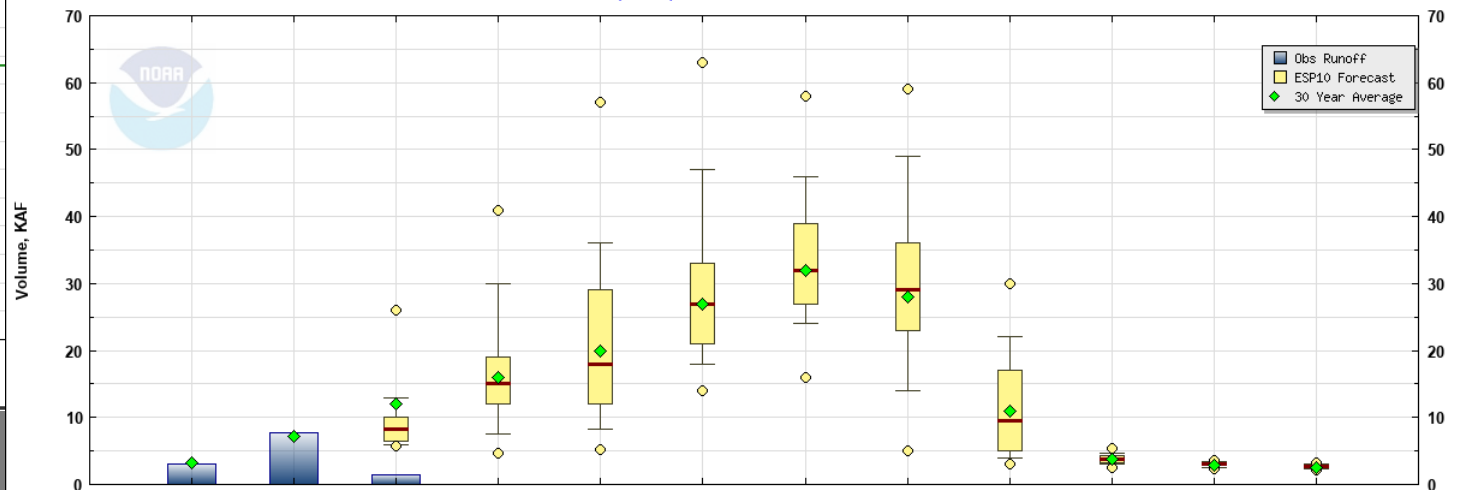


Natural Volume Forecasts
UMATILLA - NEAR GIBBON
 Period OCT to SEP -- Water Year 2021

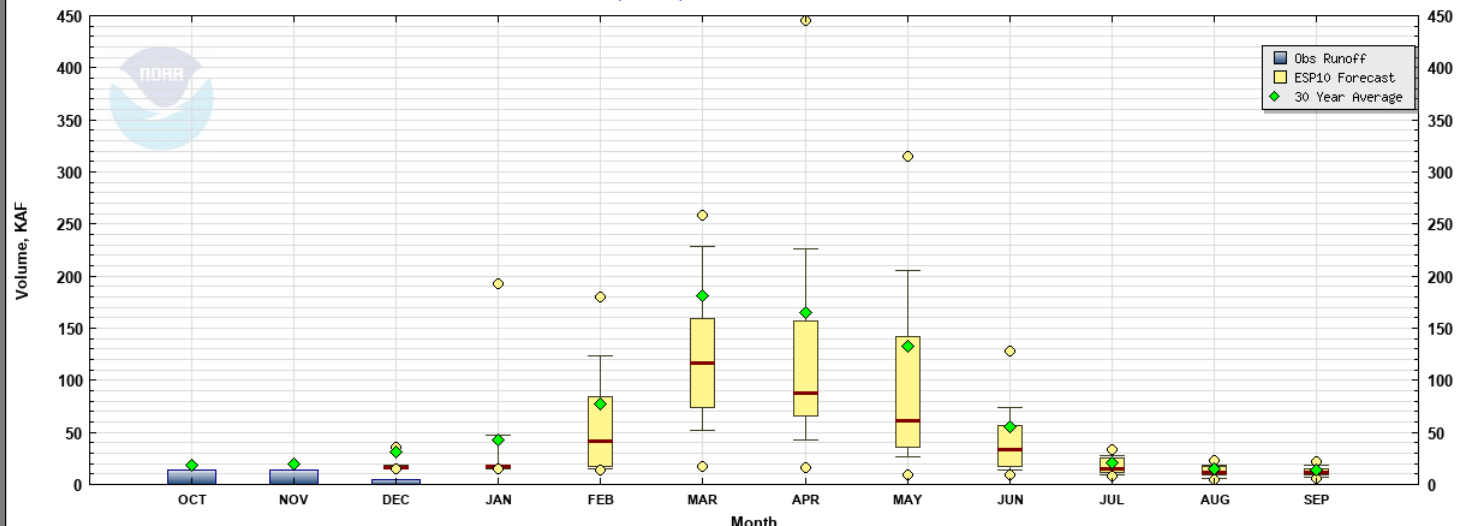


East OR WY21 Forecast Progression

Natural Volume Monthly Forecasts (ESP10) for Water Year 2021
(GIBO3) UMATILLA - NEAR GIBBON



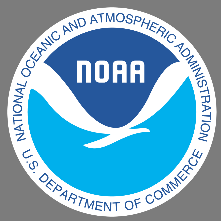
Natural Volume Monthly Forecasts (ESP10) for Water Year 2021
(OWYO3) OWYHEE - OWYHEE DAM



Ensemble Date: 2020-12-09

Plot Created: 12/09/2020 01:44 PST





NWRFC Water Supply Briefings Schedule



2021 Schedule for <i>Live Water Supply Briefings</i>				
Jan	Feb	Mar	Apr	May
7	4	4	1	6
<i>All presentations held at 10:00am PDT/PST, unless noted otherwise</i>				
Click here for Registration Information				



<https://attendee.gotowebinar.com/register/534626944494756623>

Water Supply Conditions Report







Water Supply Availability Committee



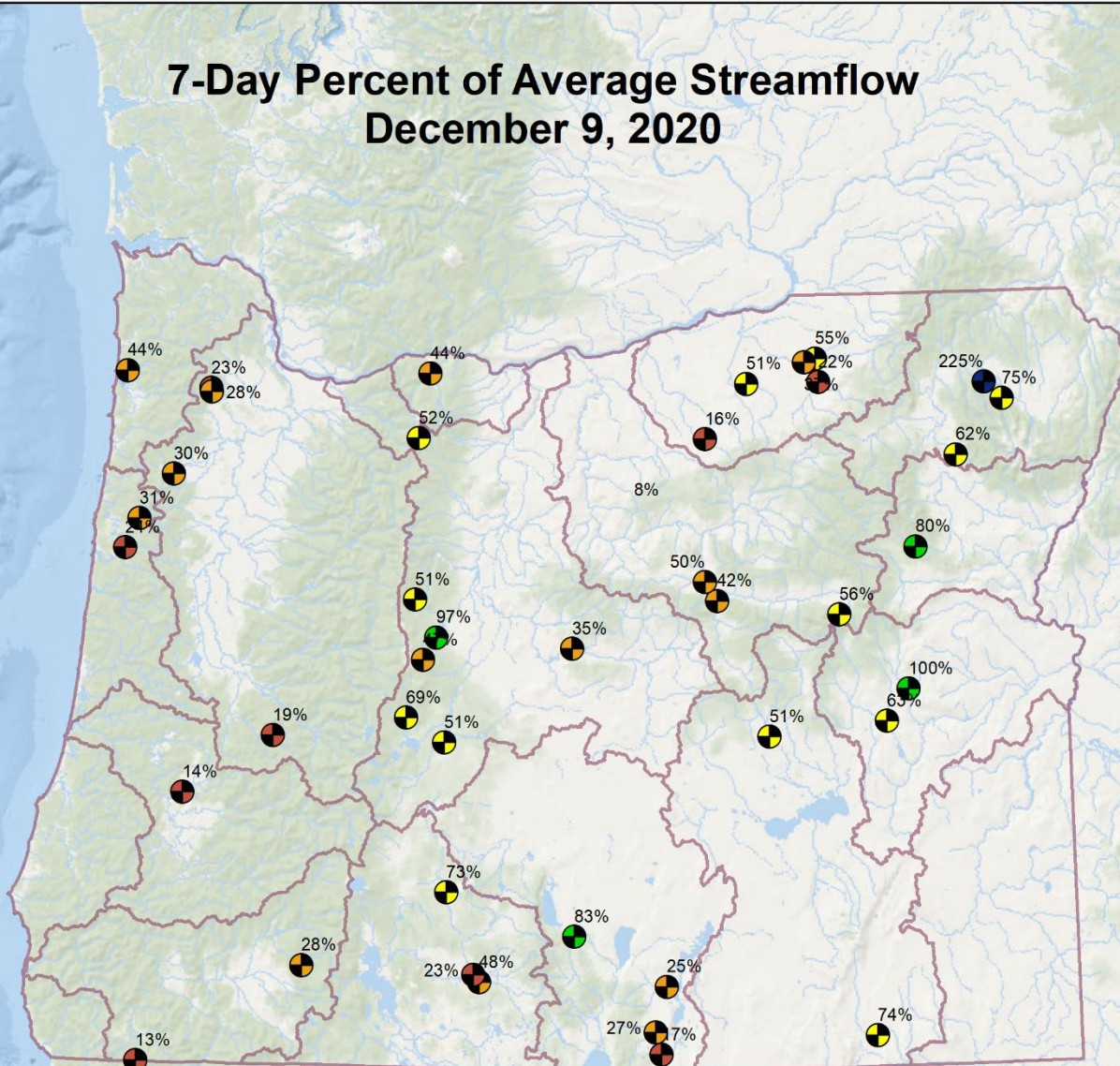
Ken Stahr
Oregon Water Resources
Department
December 10, 2020

7-Day Percent of Average Streamflow December 9, 2020

OWRD stream gage

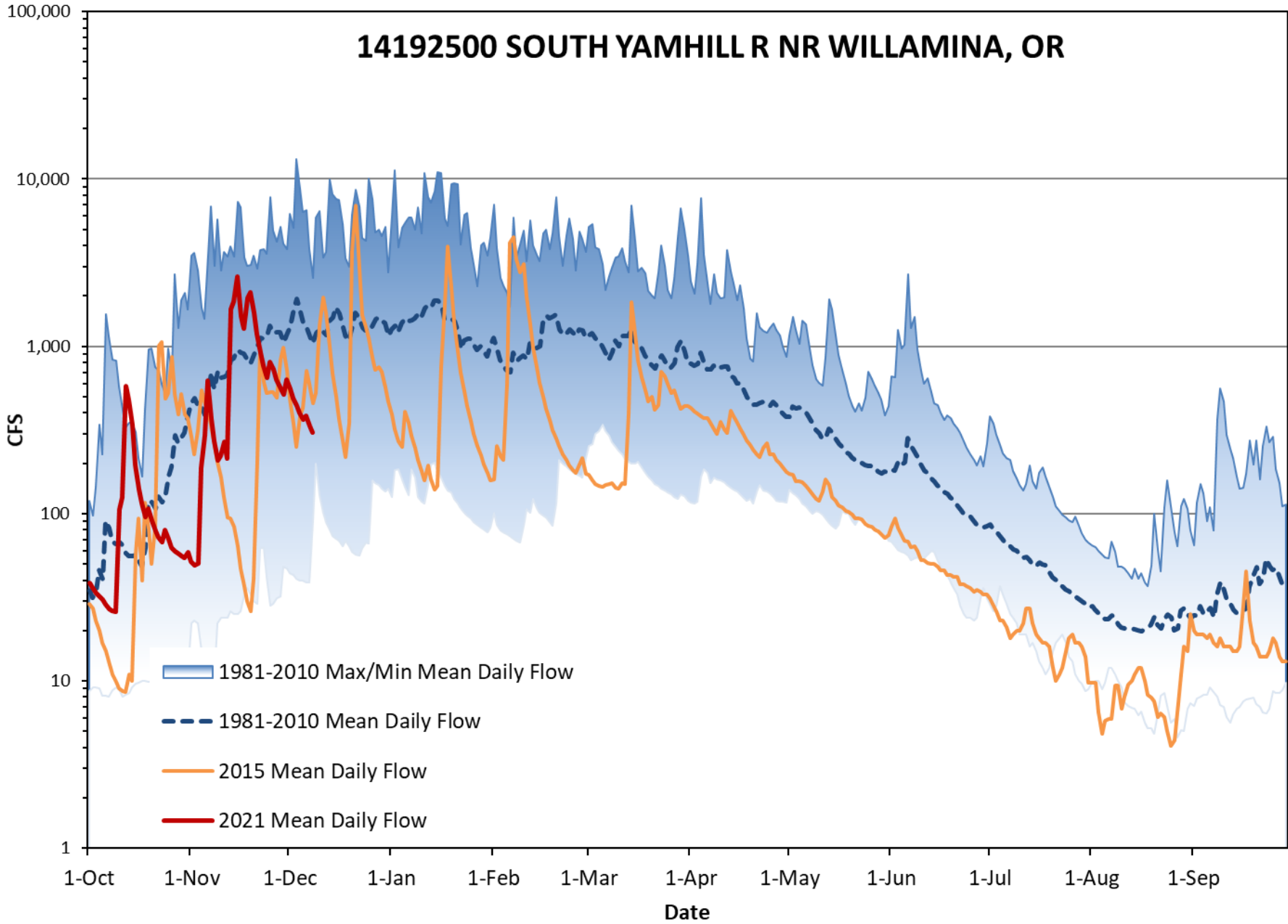
-  < 25%
-  25% - 50%
-  51% - 75%
-  76% - 100%
-  101% - 150%
-  > 150%

OWRD Basin

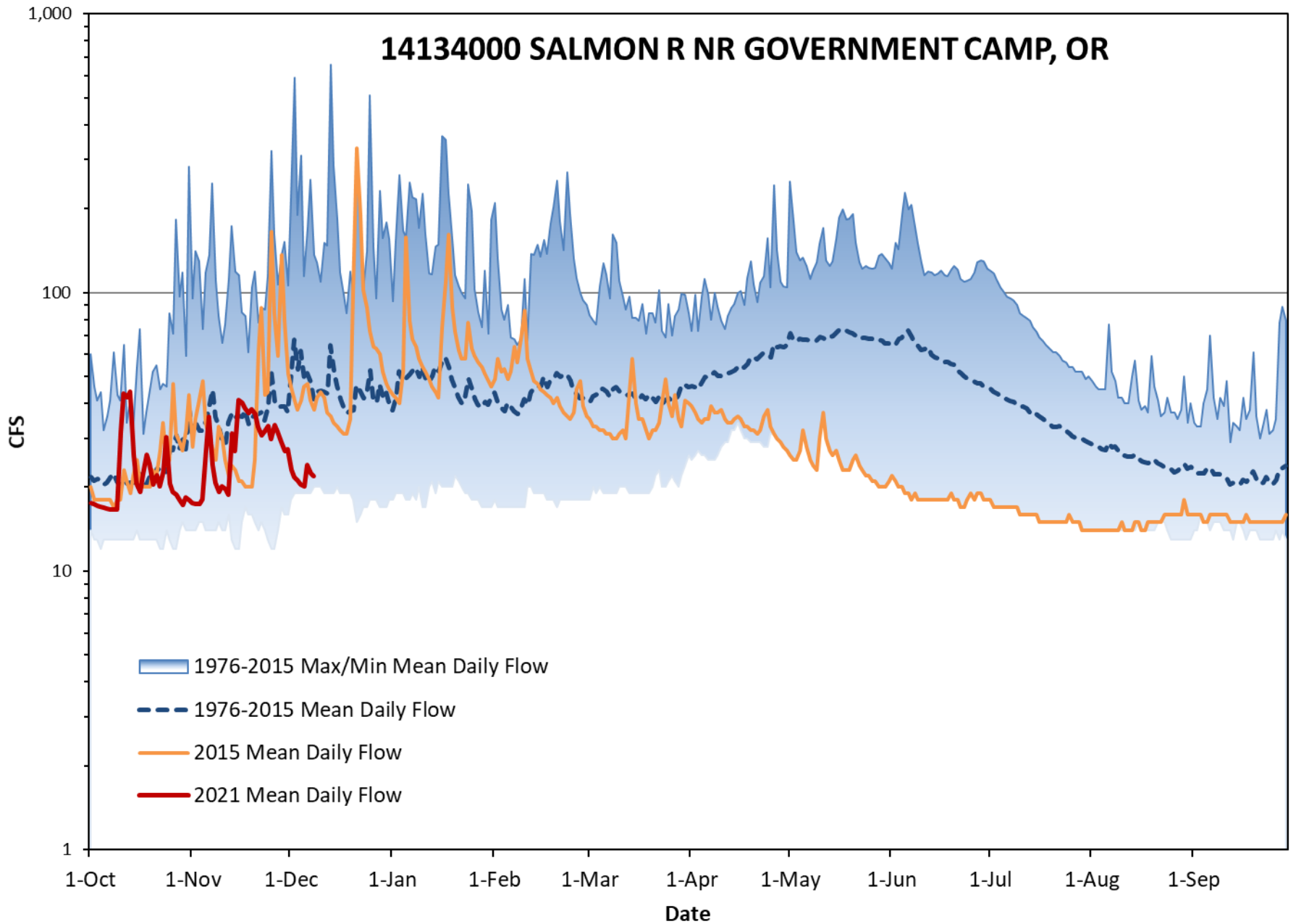


Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

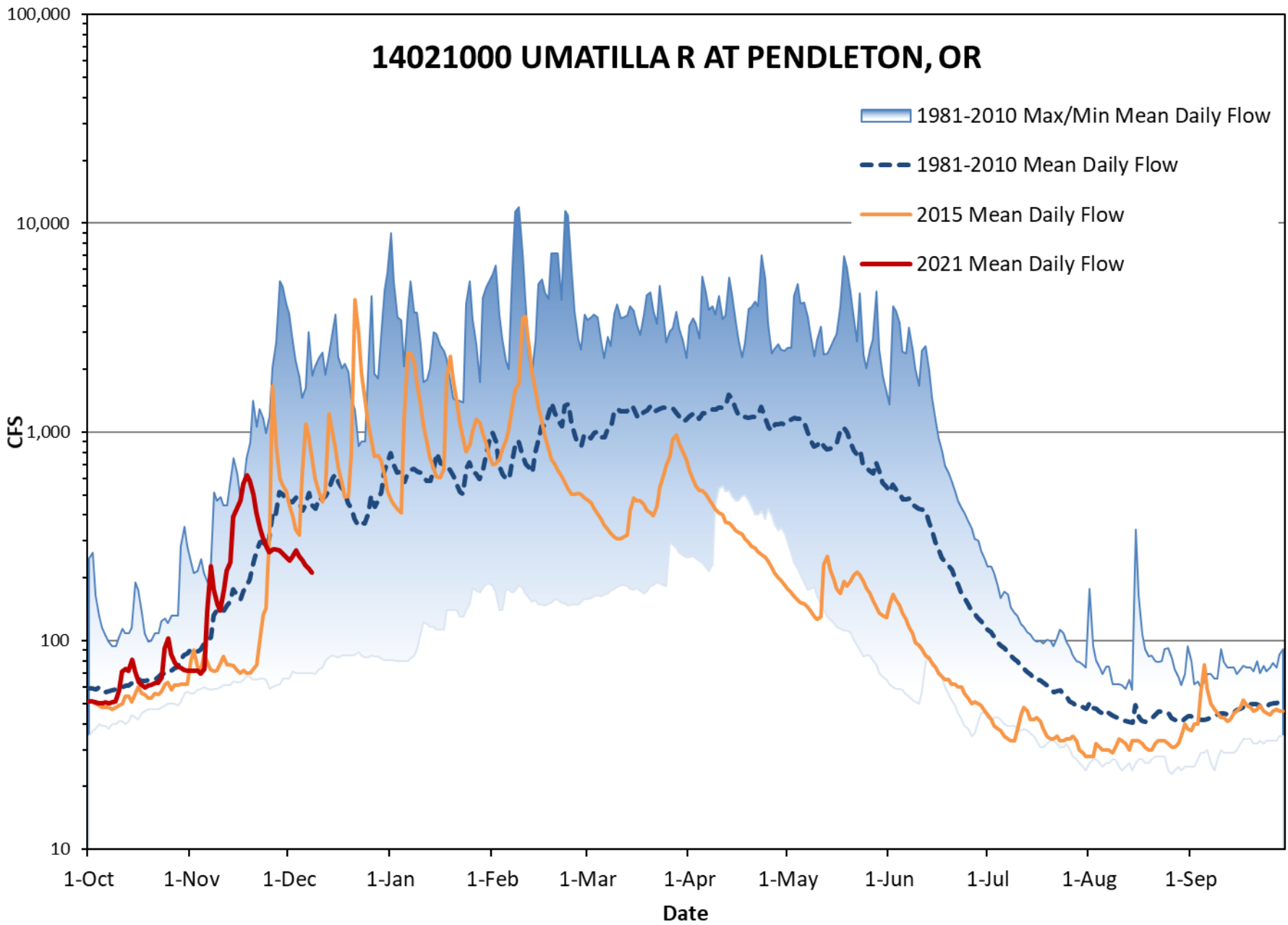
14192500 SOUTH YAMHILL R NR WILLAMINA, OR



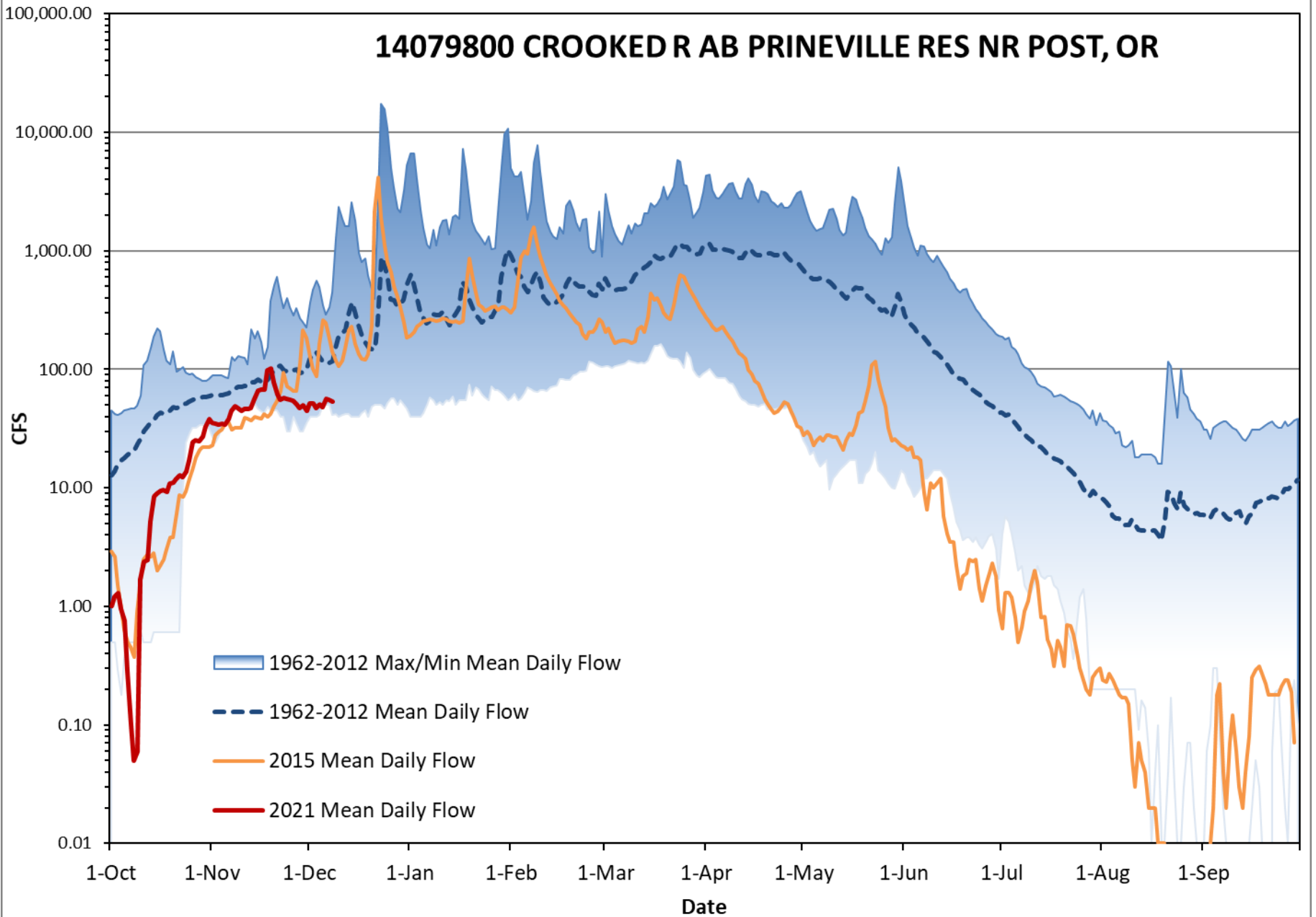
1413400 SALMON R NR GOVERNMENT CAMP, OR



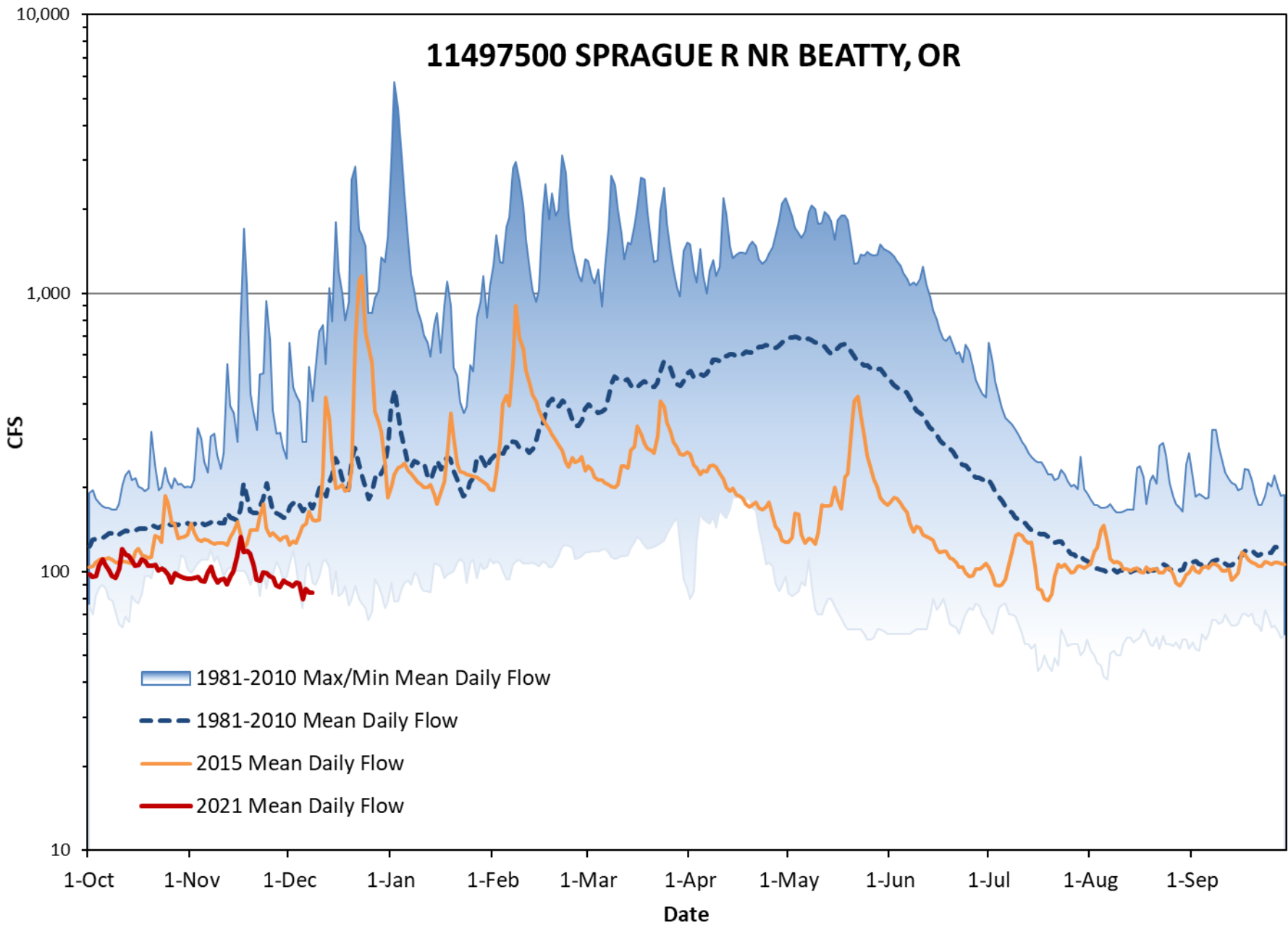
14021000 UMATILLA R AT PENDLETON, OR



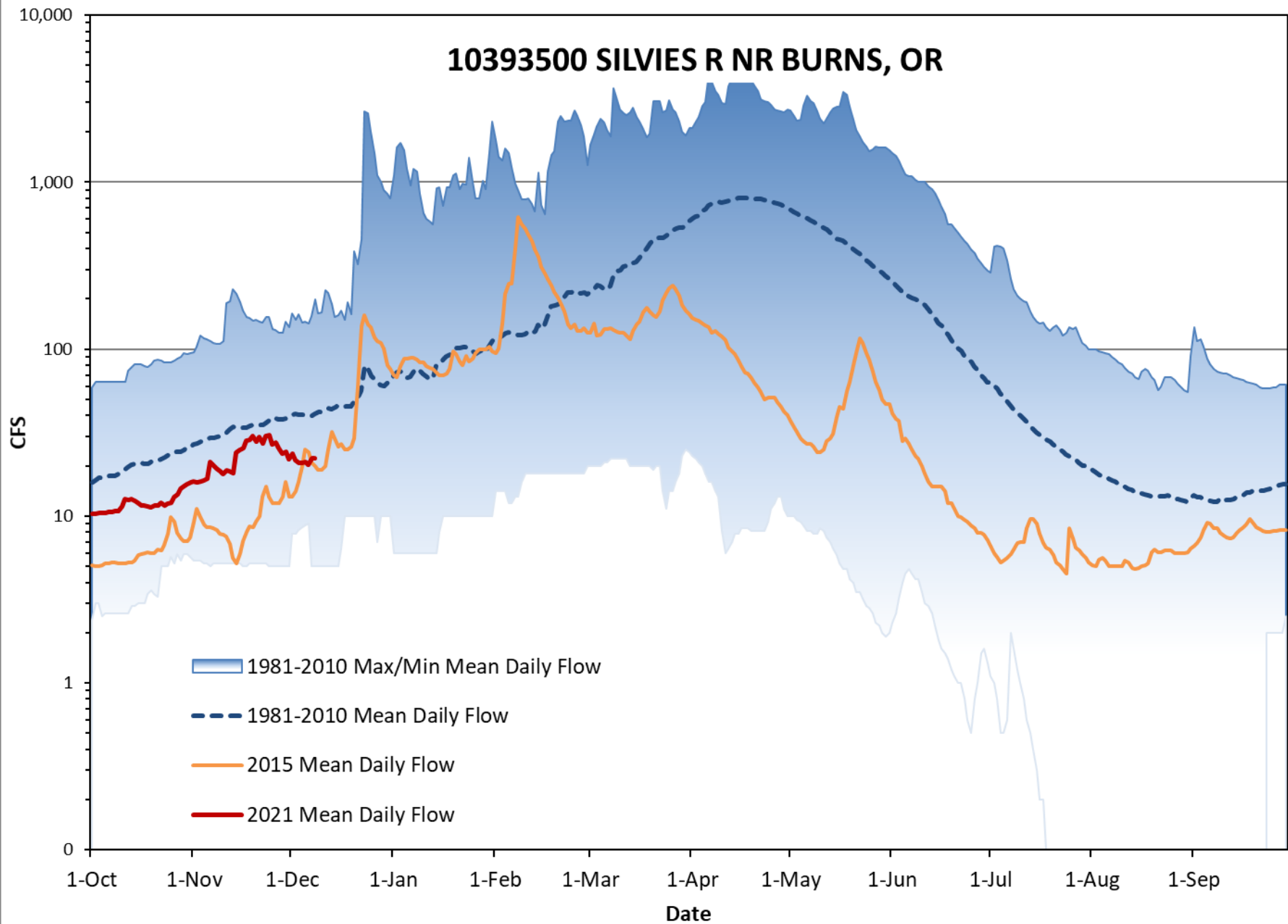
14079800 CROOKED R AB PRINEVILLE RES NR POST, OR



11497500 SPRAGUE R NR BEATTY, OR



10393500 SILVIES R NR BURNS, OR

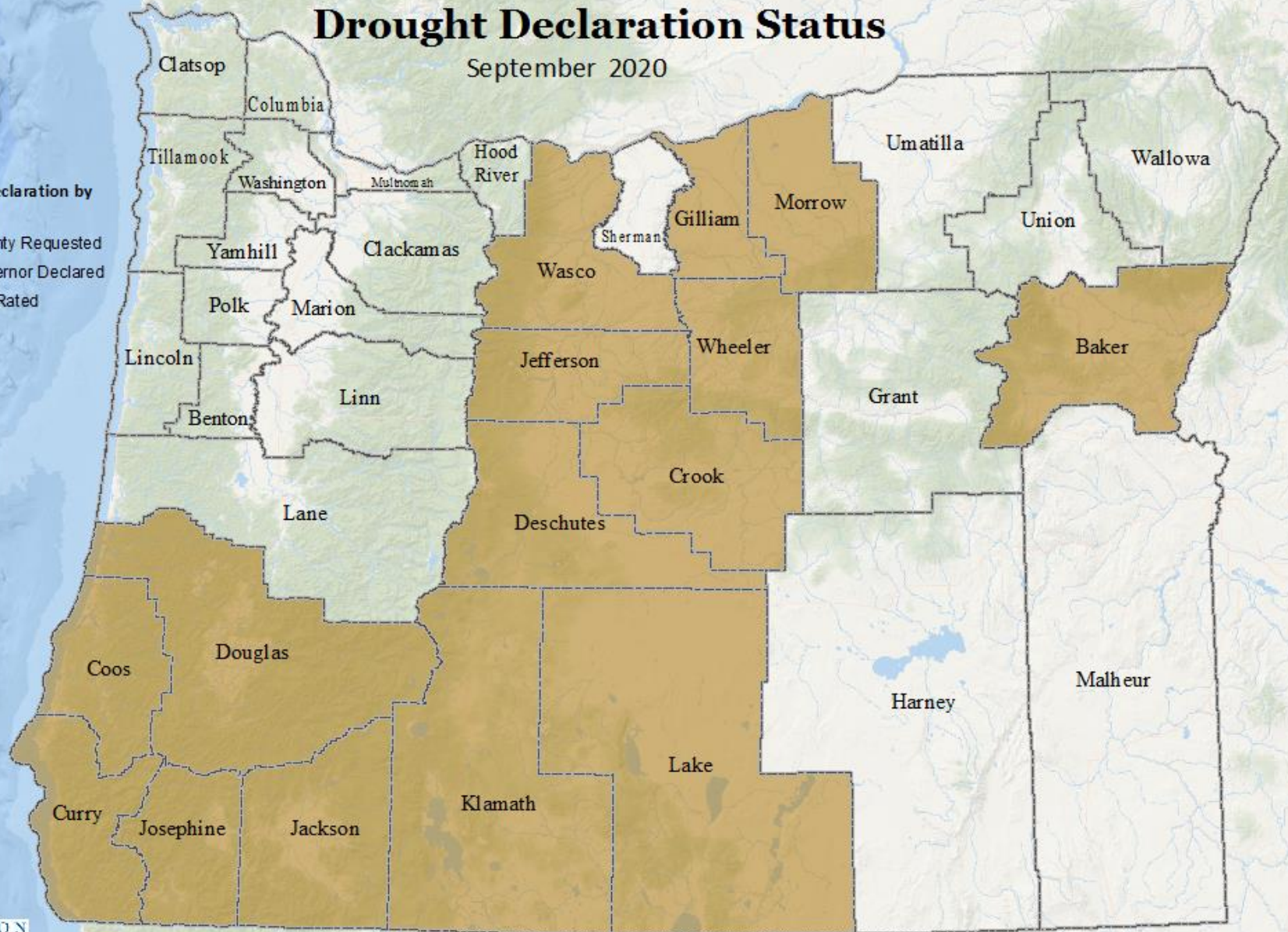


Drought Declaration Status

September 2020

Drought Declaration by

- County Requested
- Governor Declared
- Not Rated



Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
www.oregon.gov/owrd

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

0 20 40 60 80 100 Miles

Updated: 9/30/2020 2:49 PM
Projection: Oregon Lambert, NAD 83

Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

OREGON



WATER RESOURCES
DEPARTMENT

I will miss
you!



— BUREAU OF —
RECLAMATION

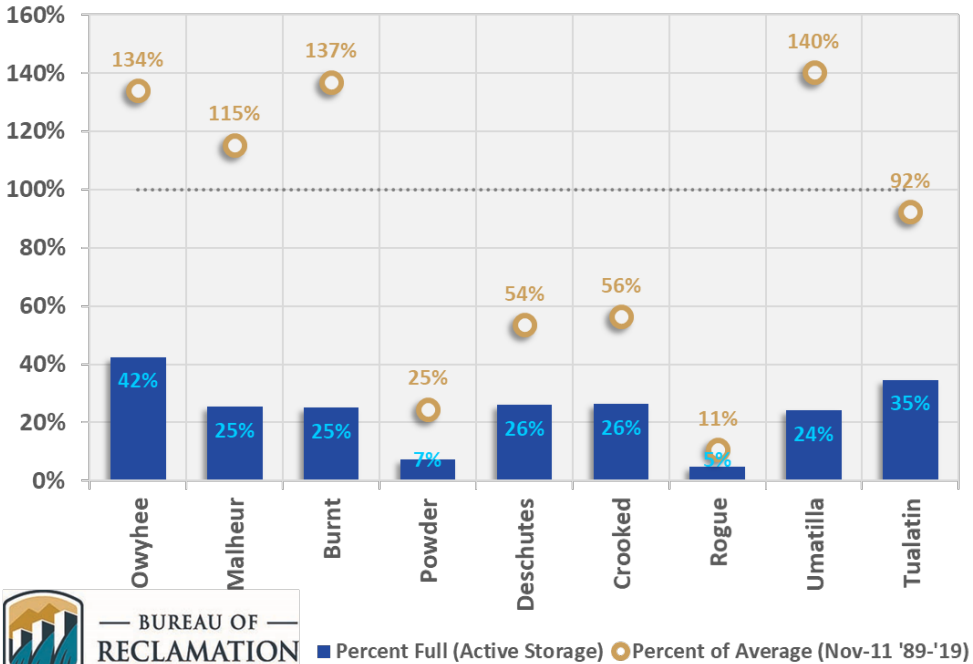
Reclamation Storage Update

Oregon Water Supply Availability Committee
Meeting

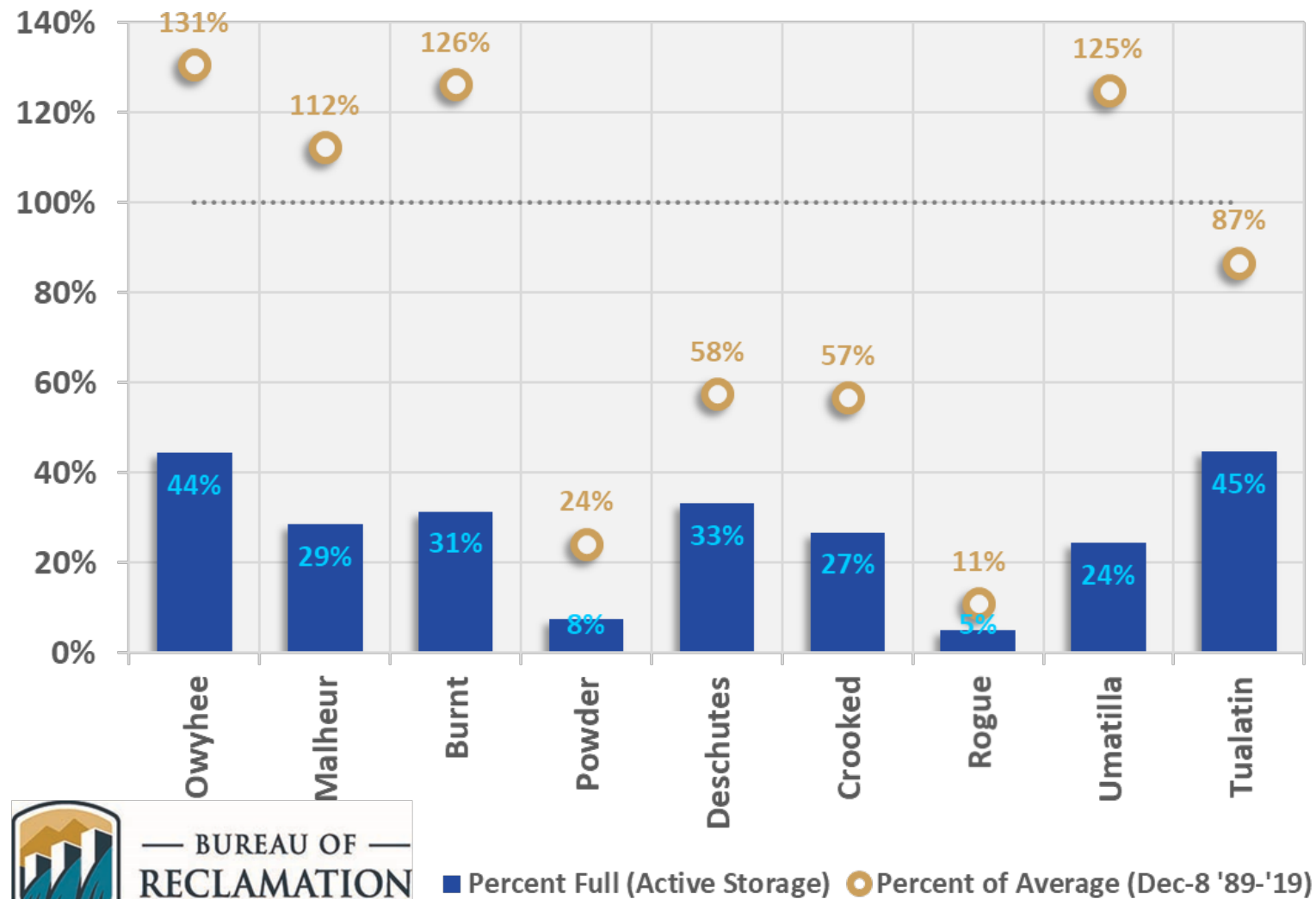
December 9, 2020

Reservoir Storage Conditions

Oregon Reservoir Storage (Nov 11 2020)

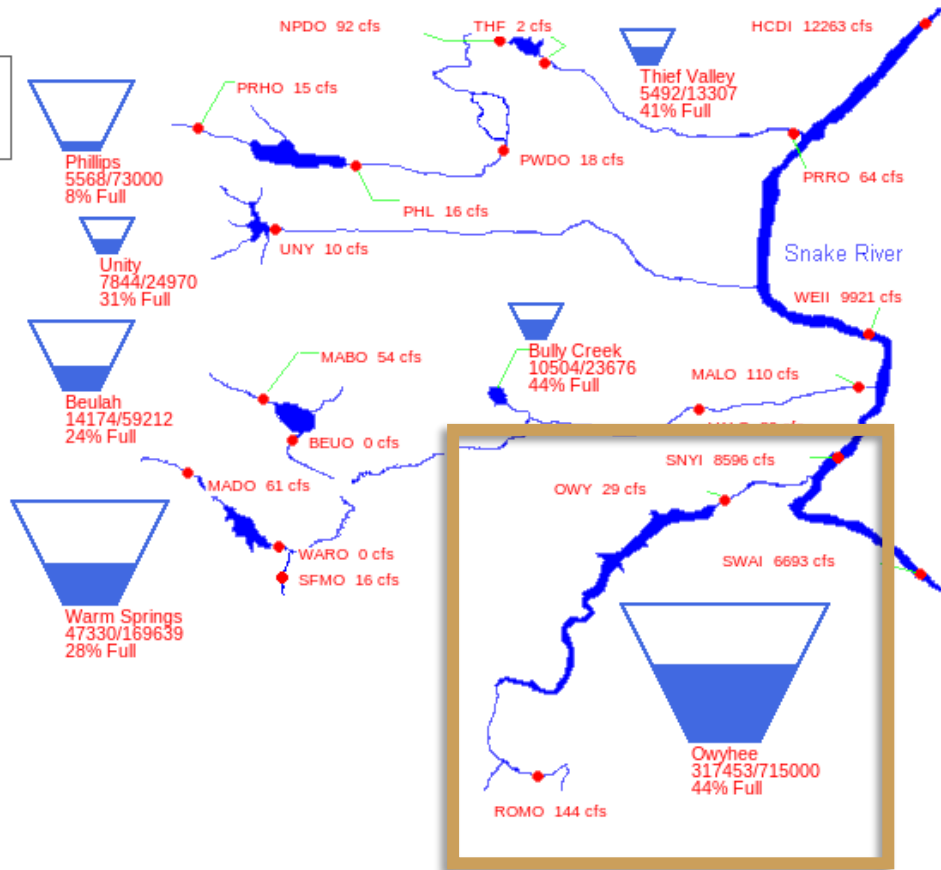
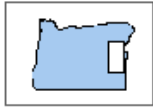


Oregon Reservoir Storage (Dec 8 2020)

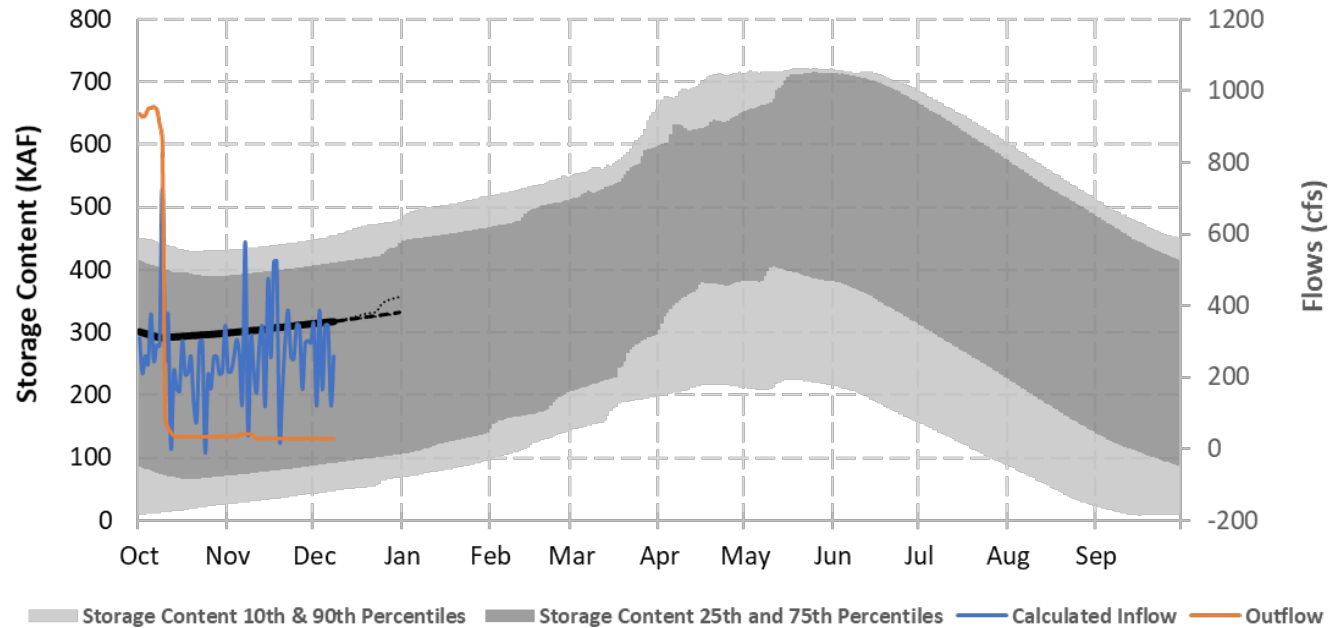


Owyhee River Basin

12/08/2020



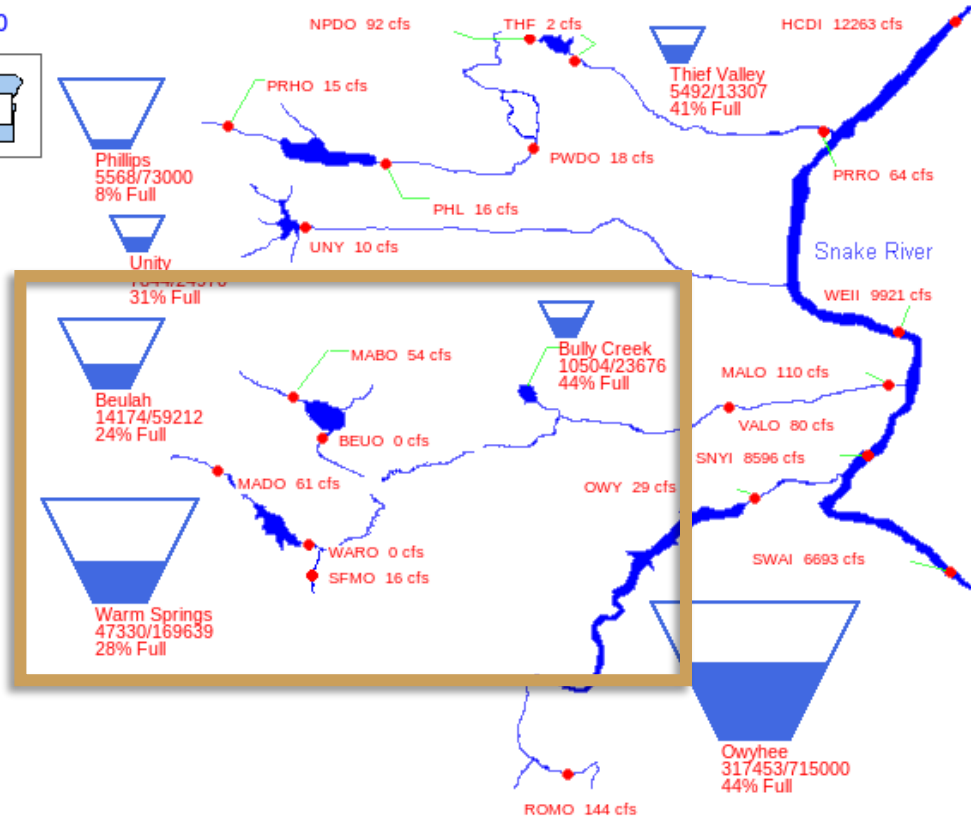
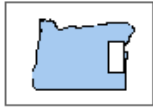
Owyhee Dam and Reservoir



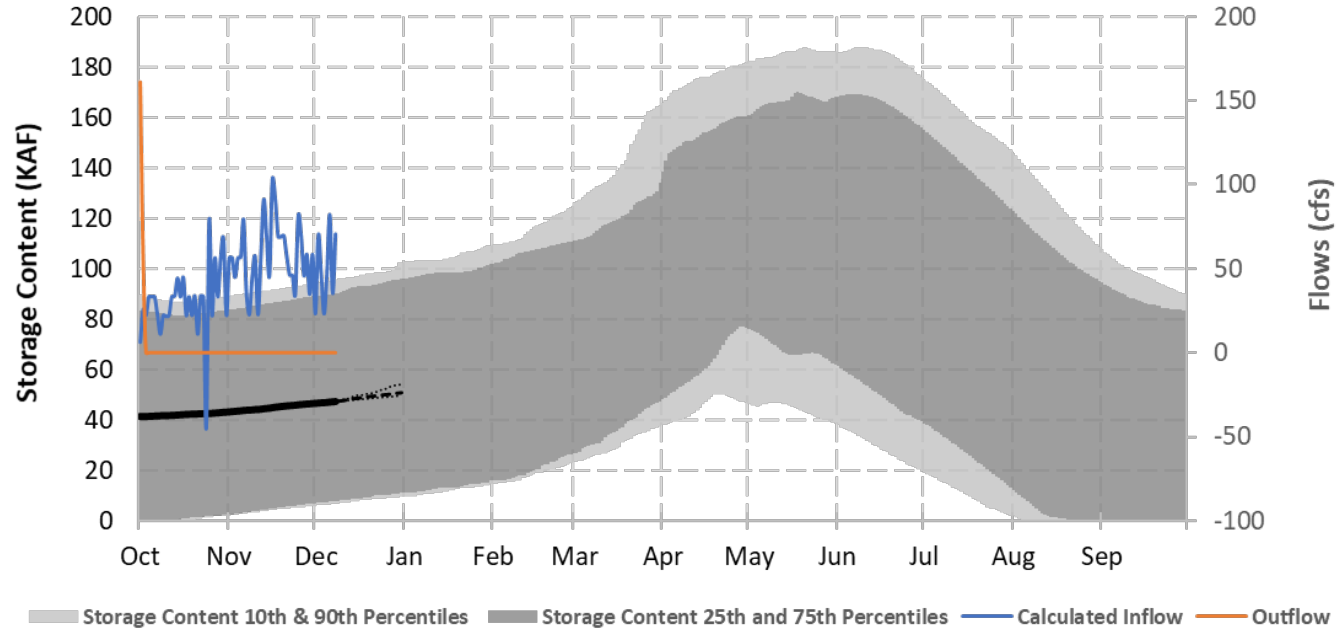
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Malheur River Basin

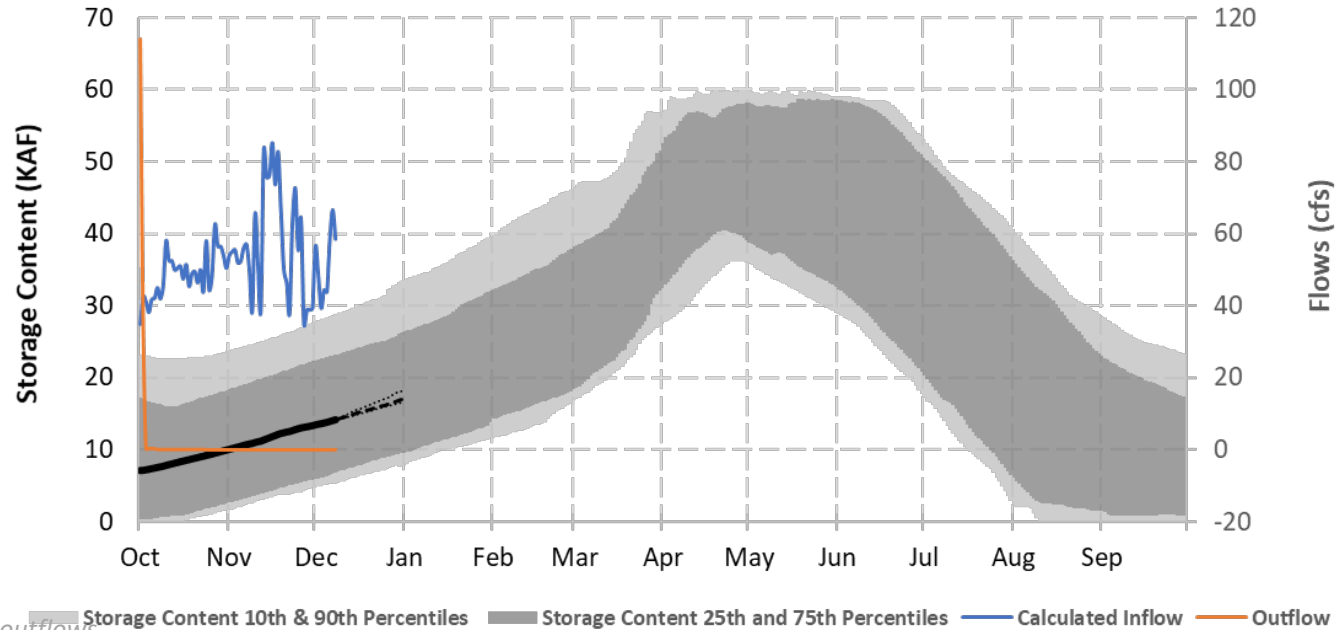
12/08/2020



Warm Springs Dam and Reservoir



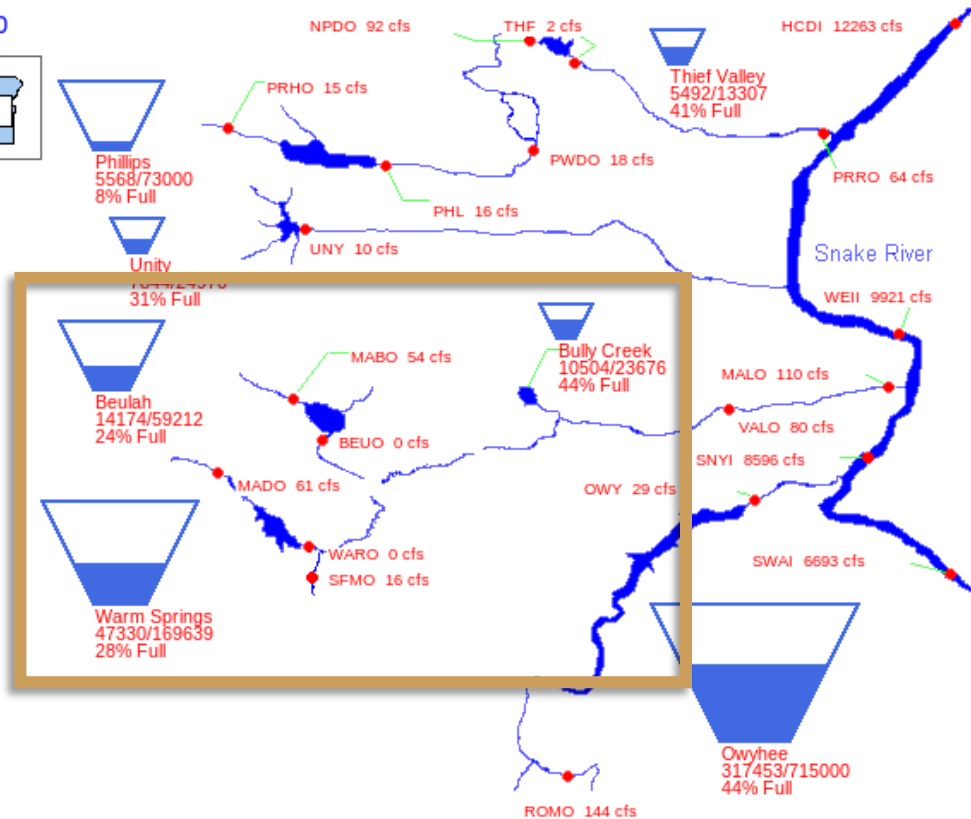
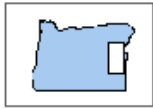
Beulah Dam and Reservoir



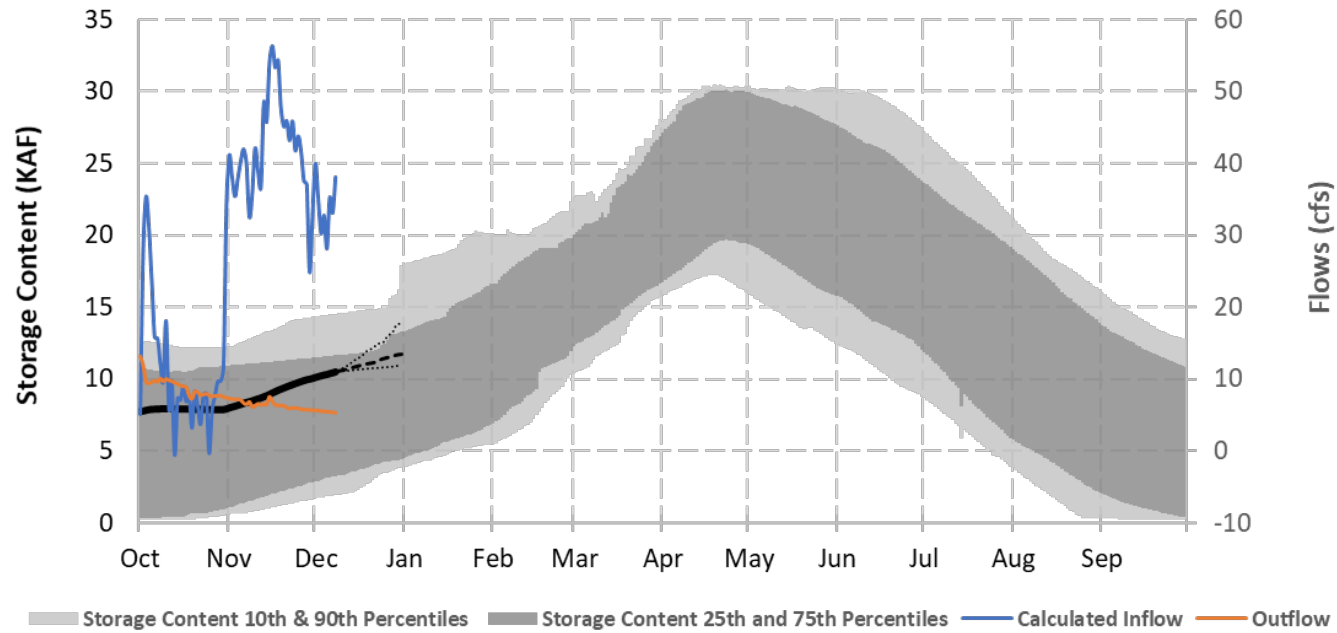
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Malheur River Basin

12/08/2020



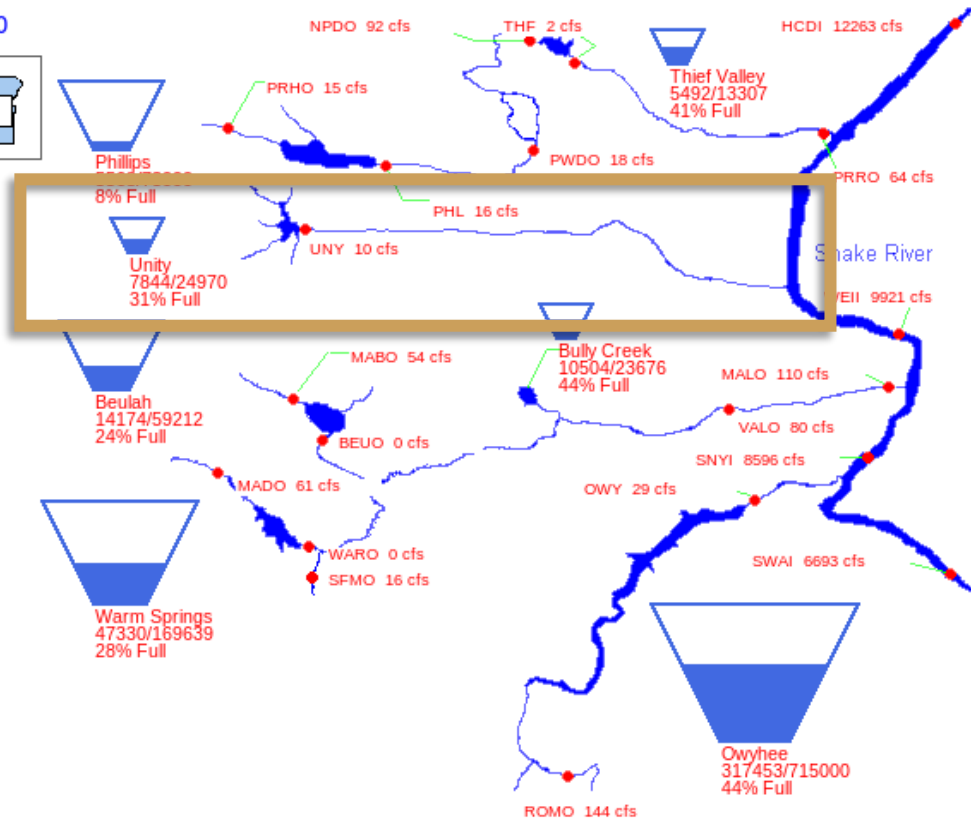
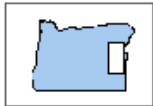
Bully Creek Dam and Reservoir



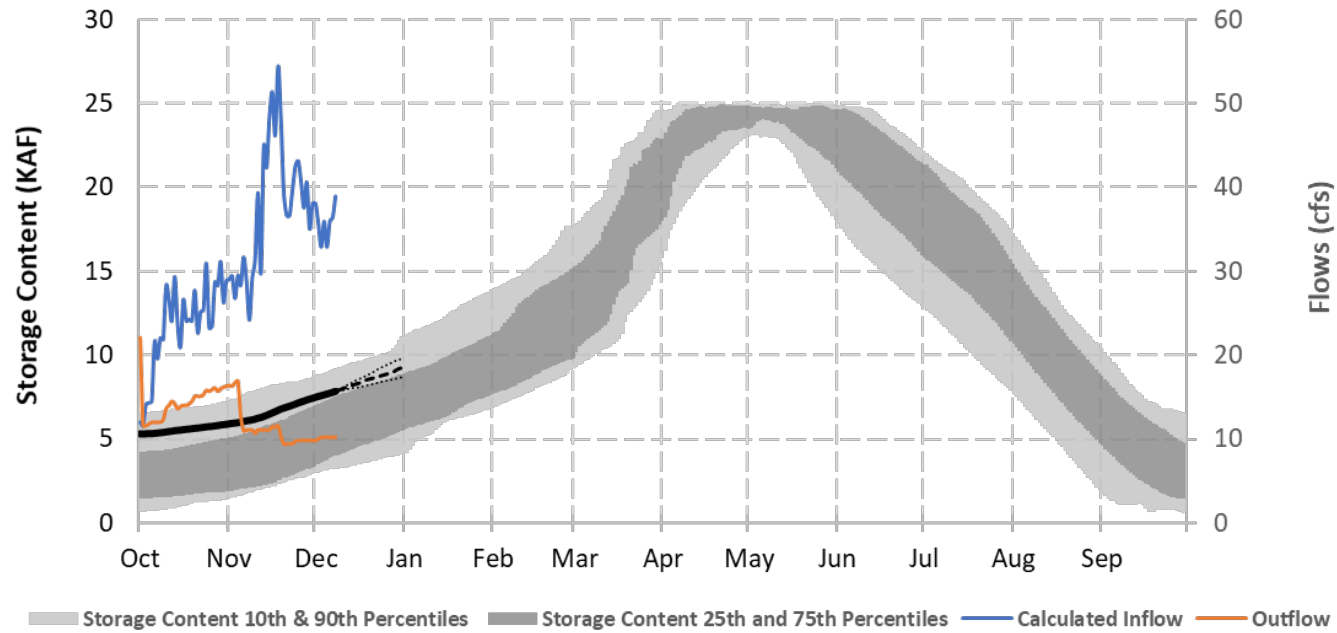
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Burnt River Basin

12/08/2020



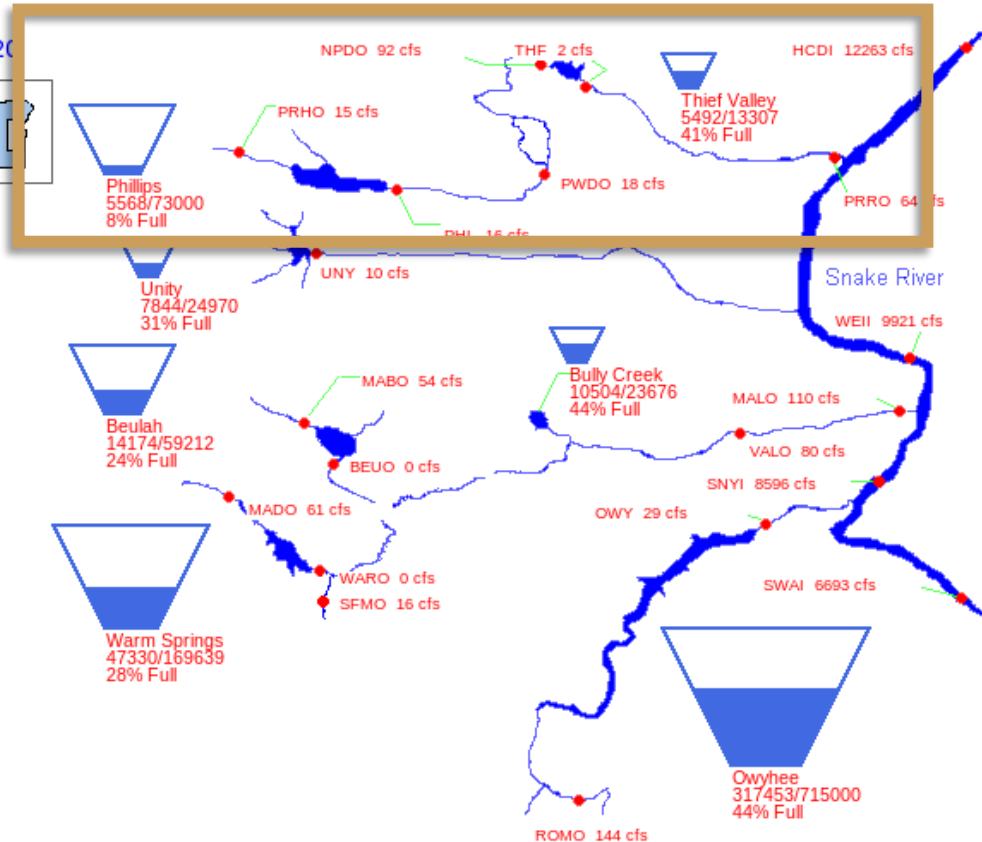
Unity Dam and Reservoir



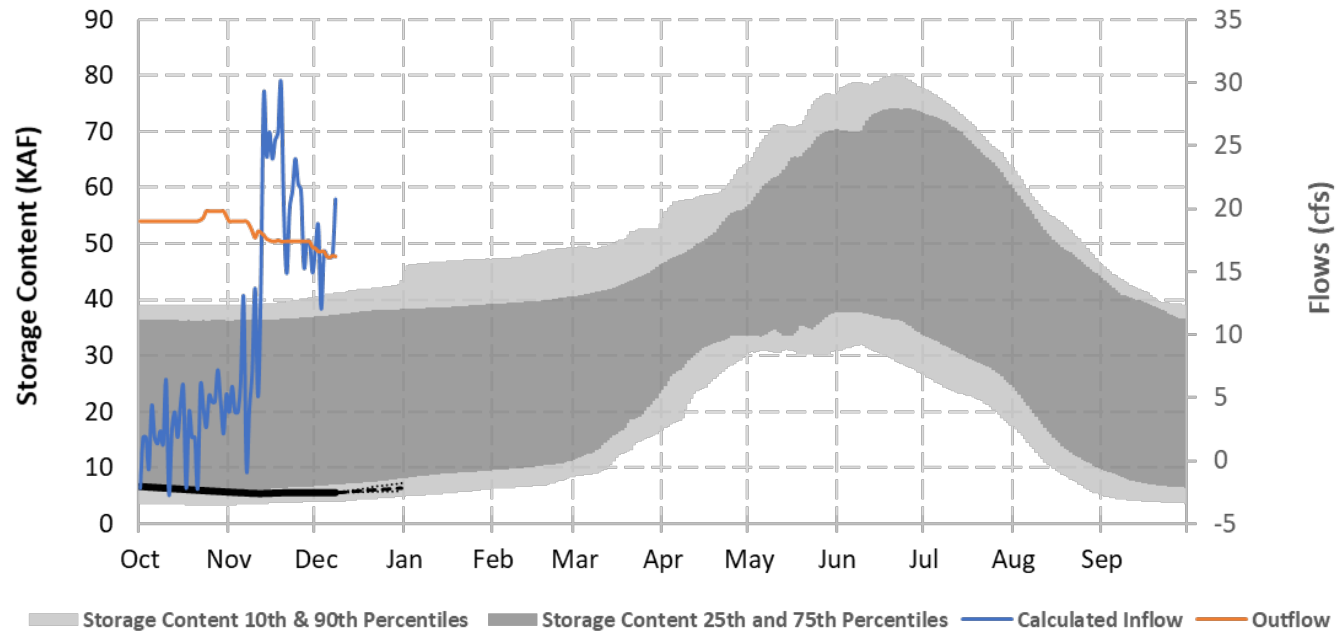
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Powder River Basin

12/08/2020



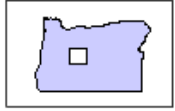
Mason Dam - Phillips Lake



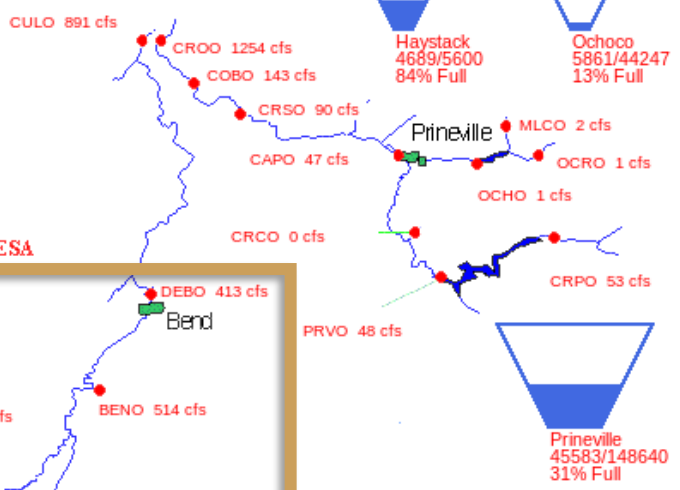
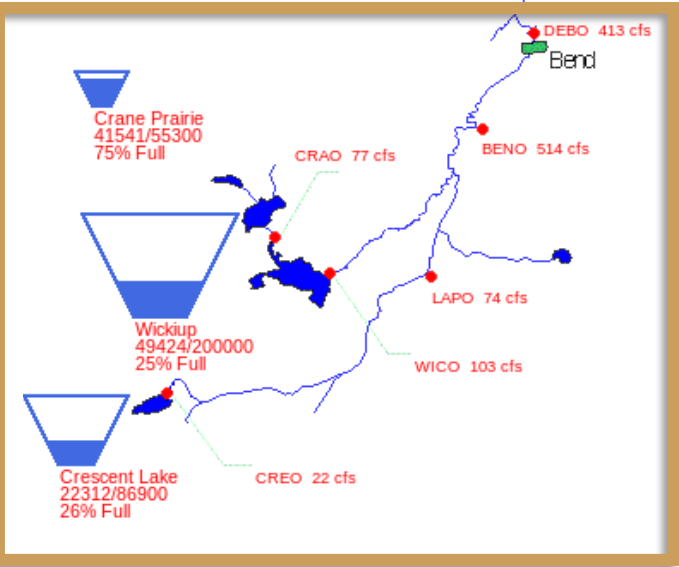
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Deschutes River Basin

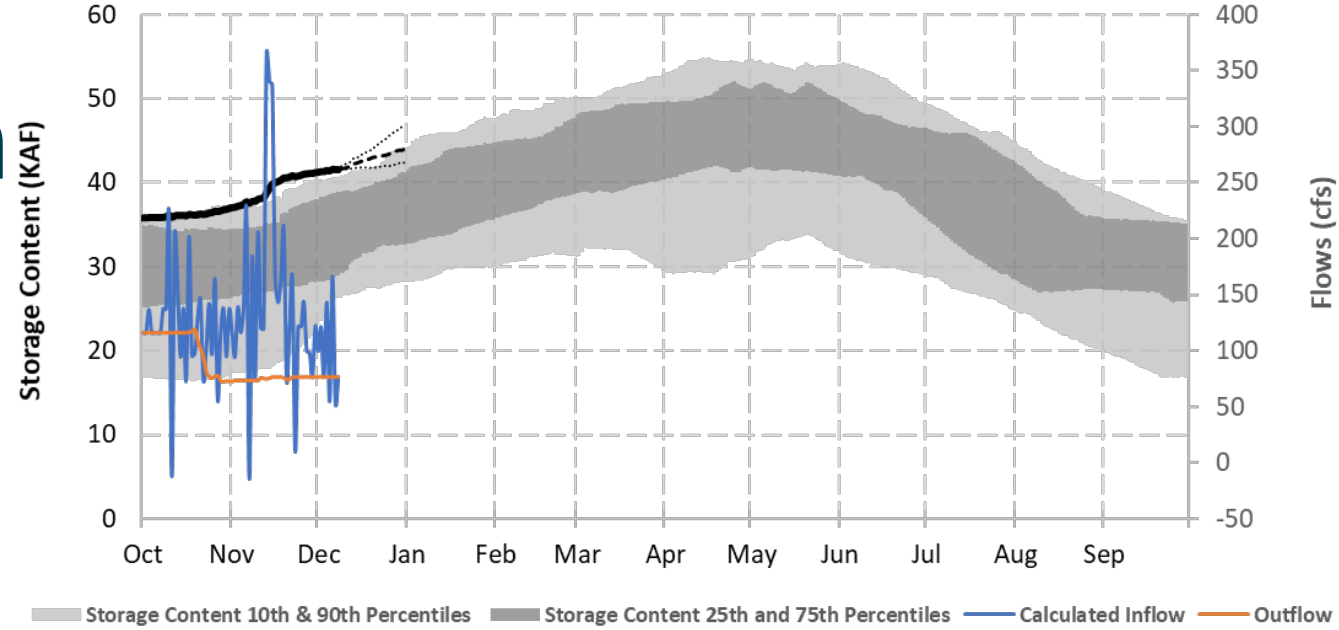
12/08/2020



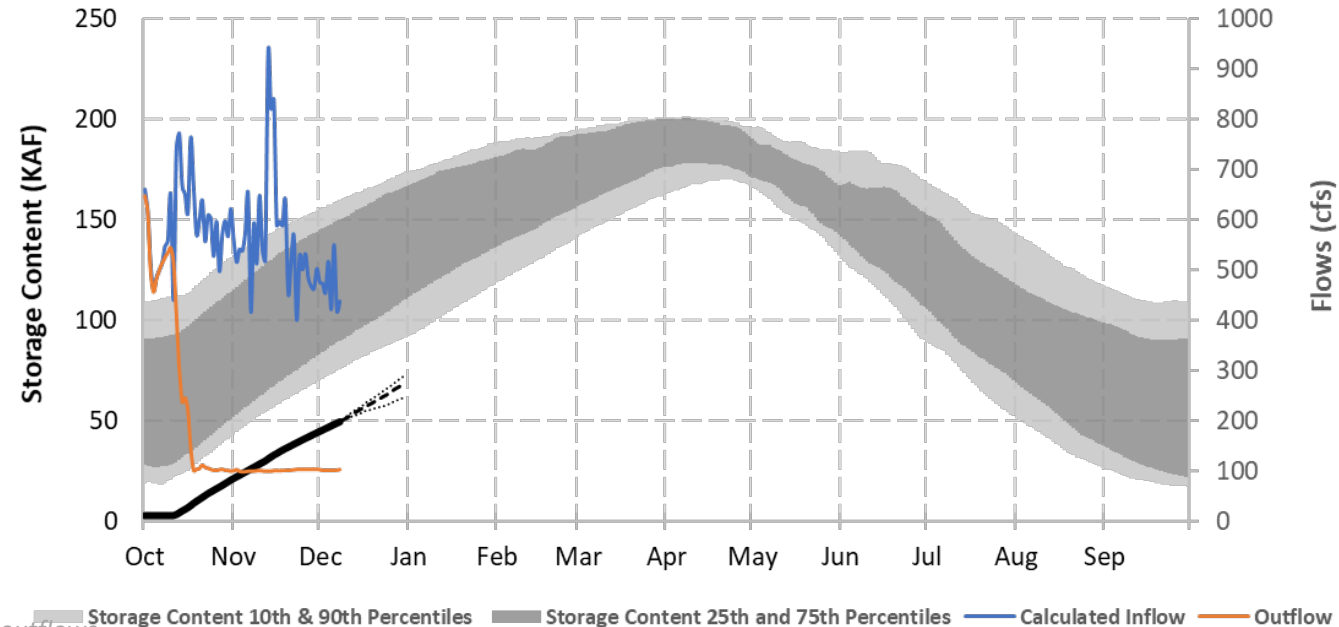
Deschutes ESA



Crane Prairie Dam and Reservoir



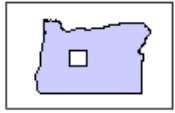
Wickiup Dam and Reservoir



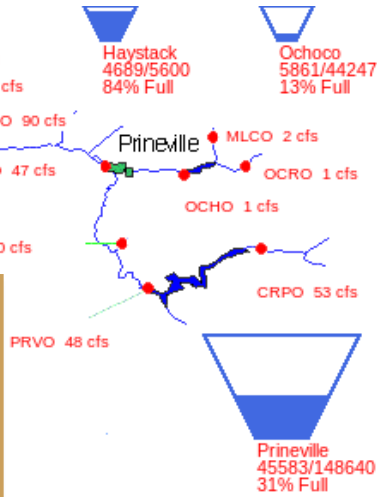
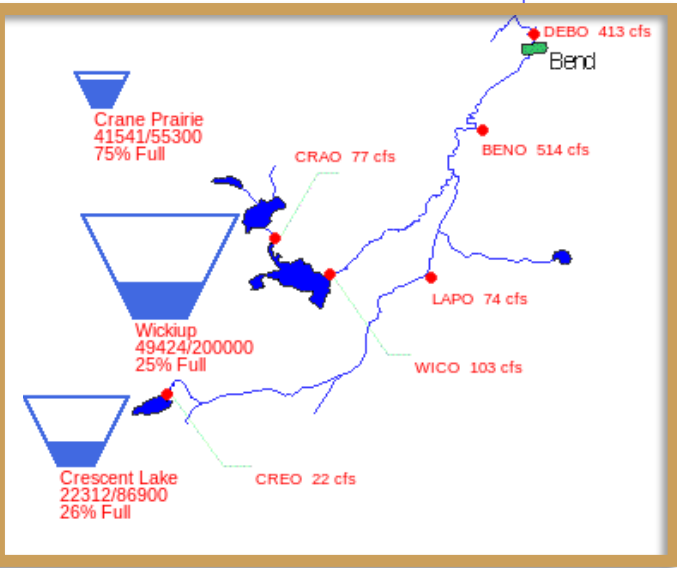
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Deschutes River Basin

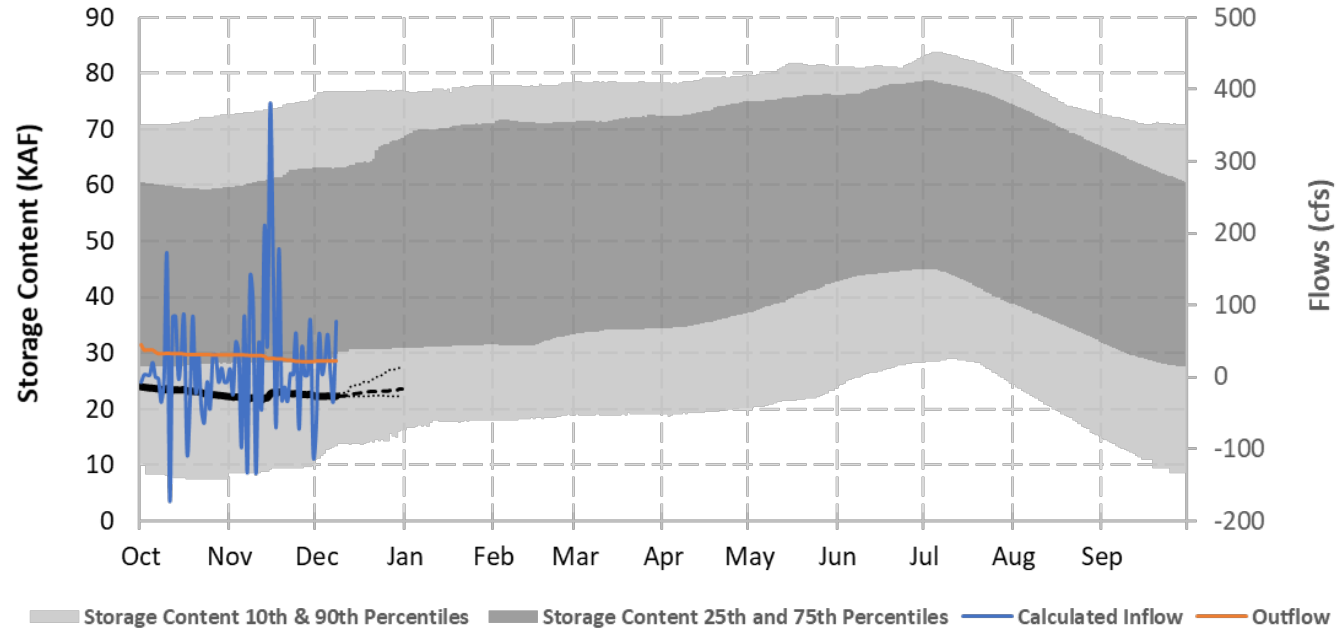
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Deschutes ESA



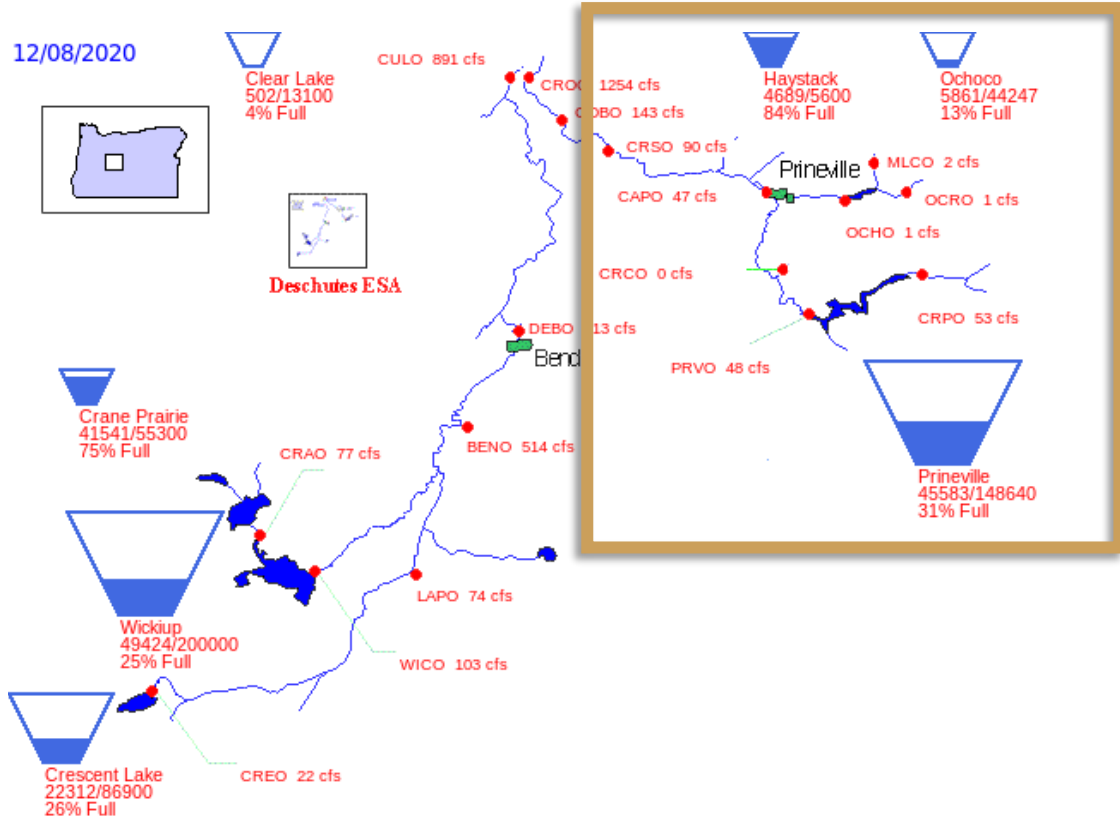
Crescent Lake Dam



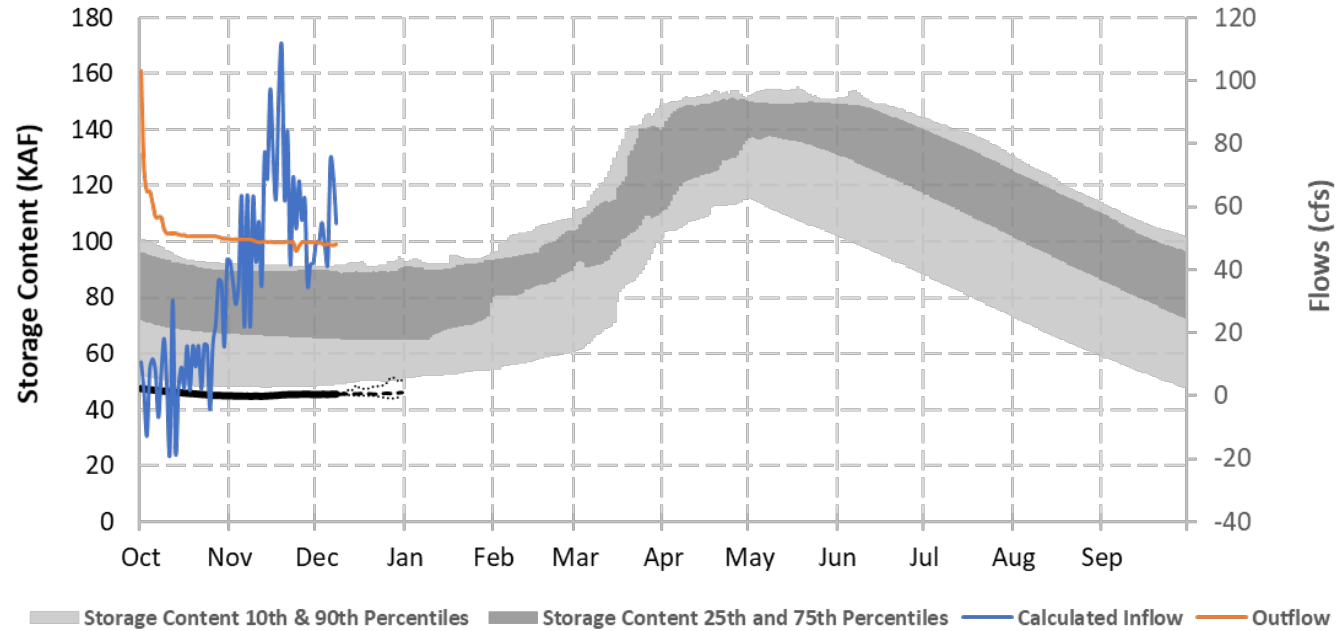
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Crooked River Basin

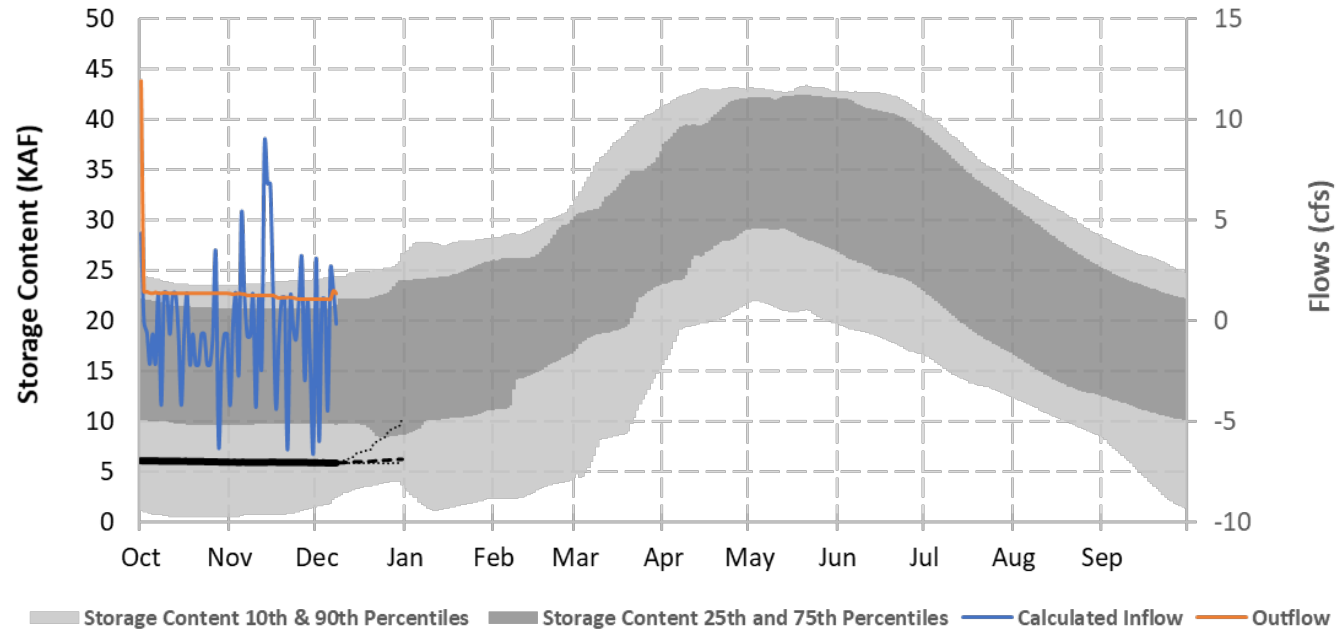
12/08/2020



Bowman Dam - Prineville Reservoir



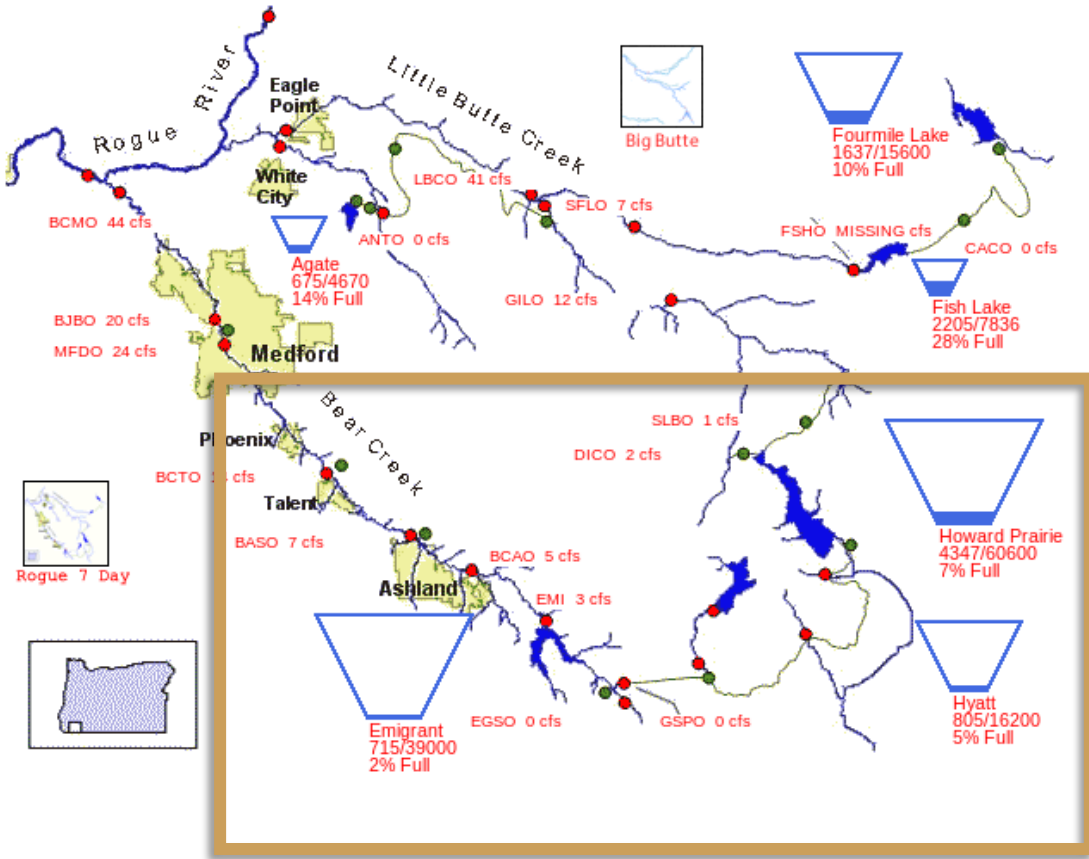
Ochoco Dam and Reservoir



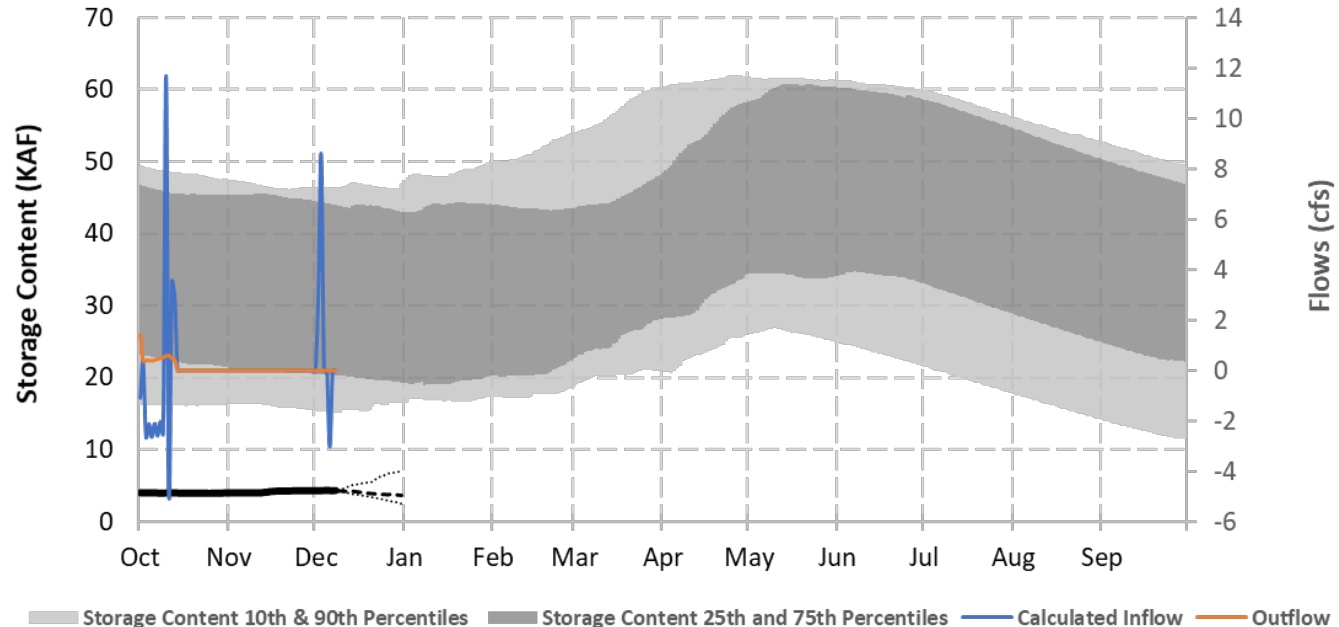
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin

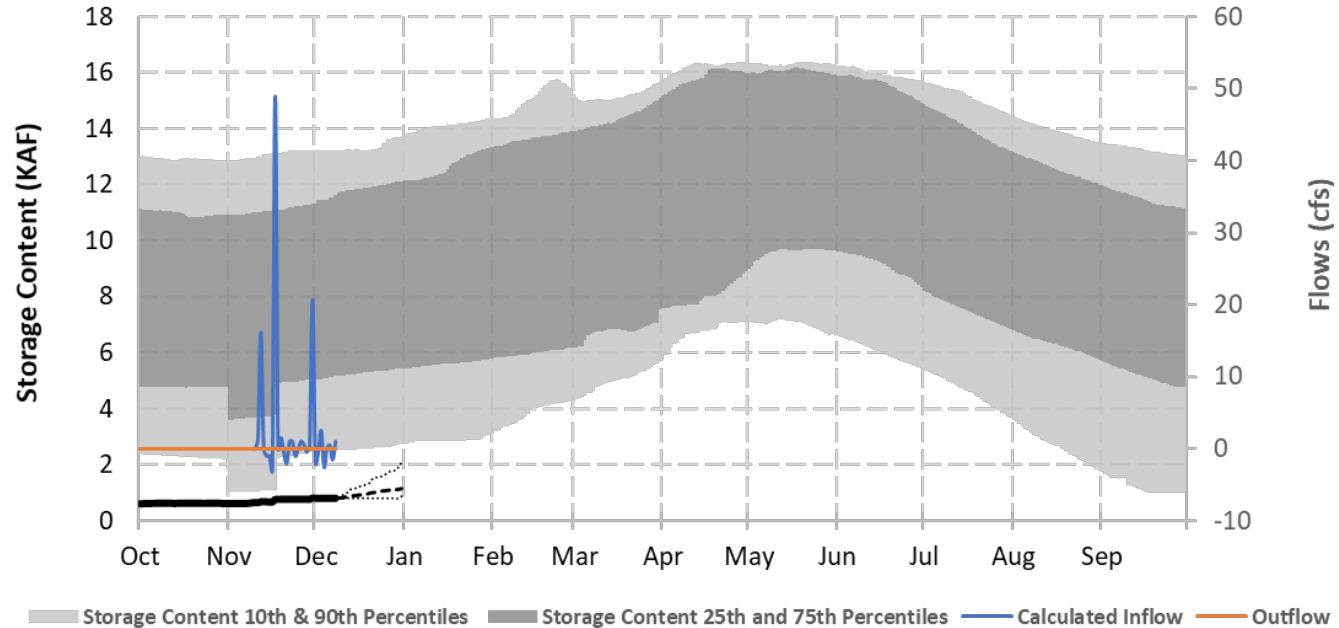
12/08/2020



Howard Prairie Dam and Lake



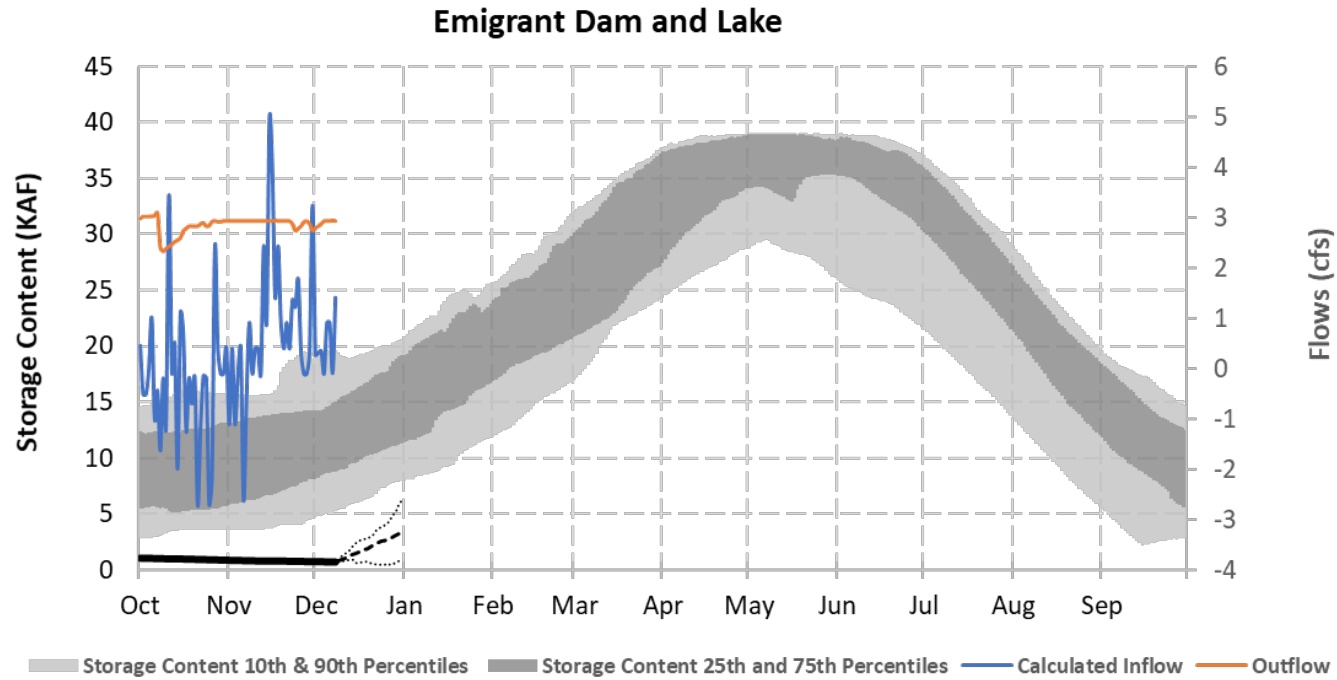
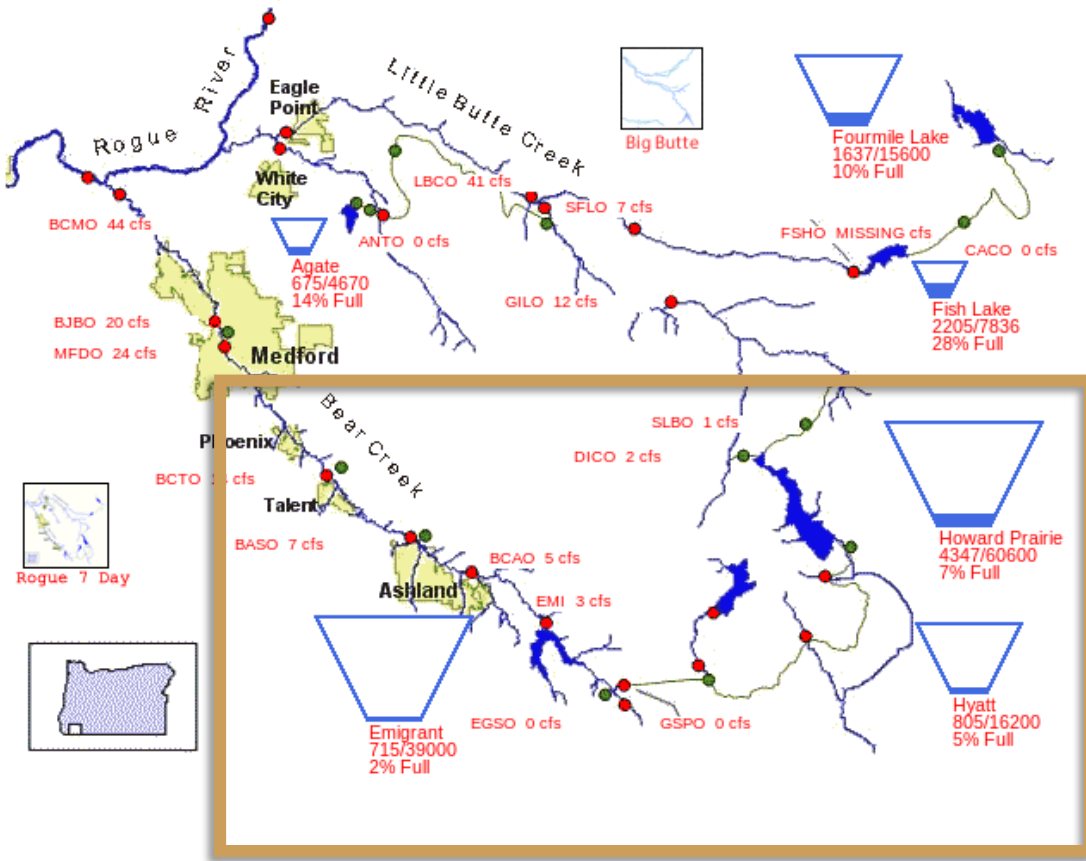
Hyatt Dam and Reservoir



*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin

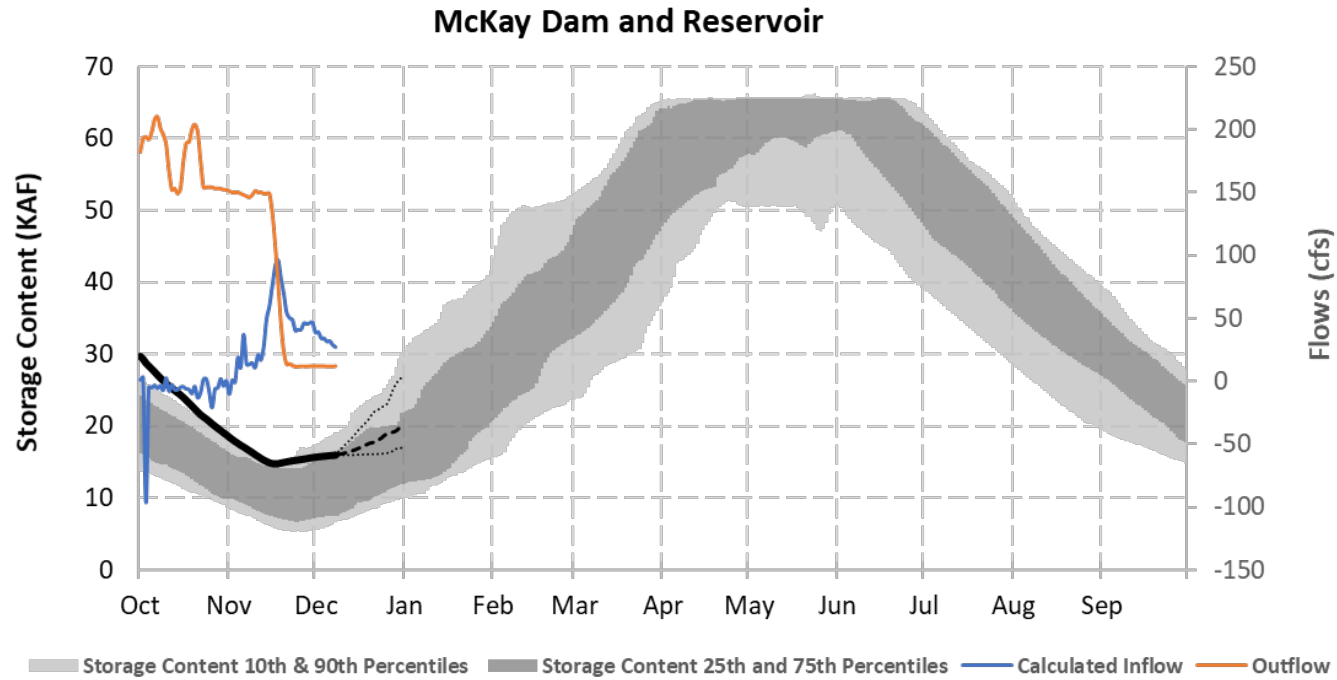
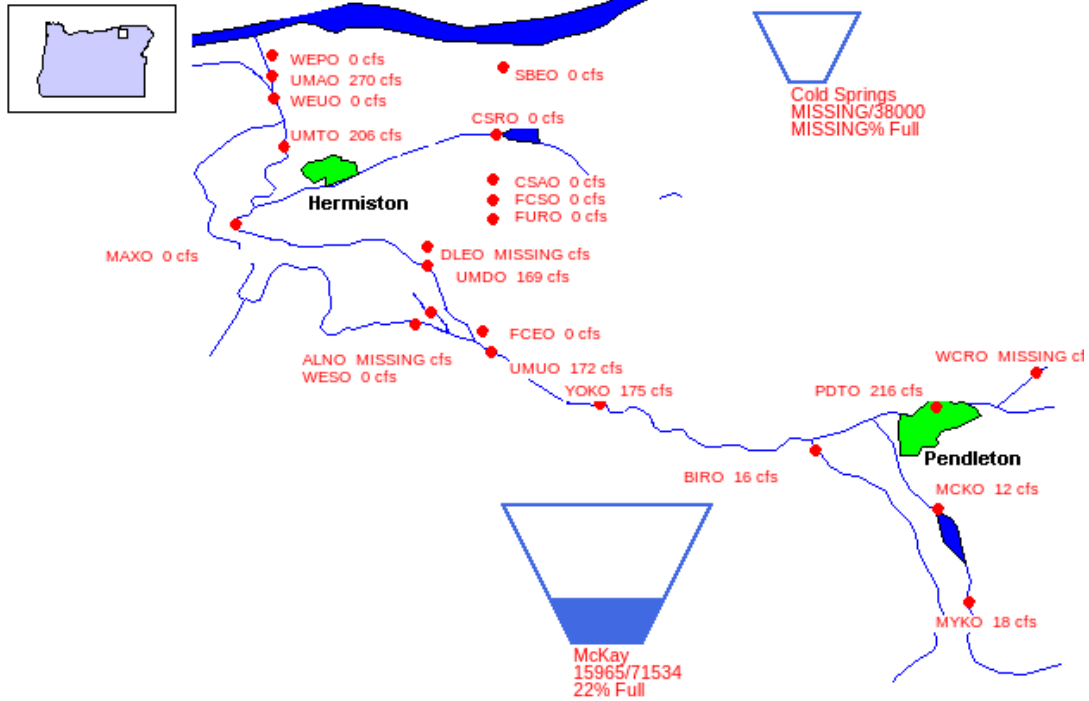
12/08/2020



*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Umatilla River Basin

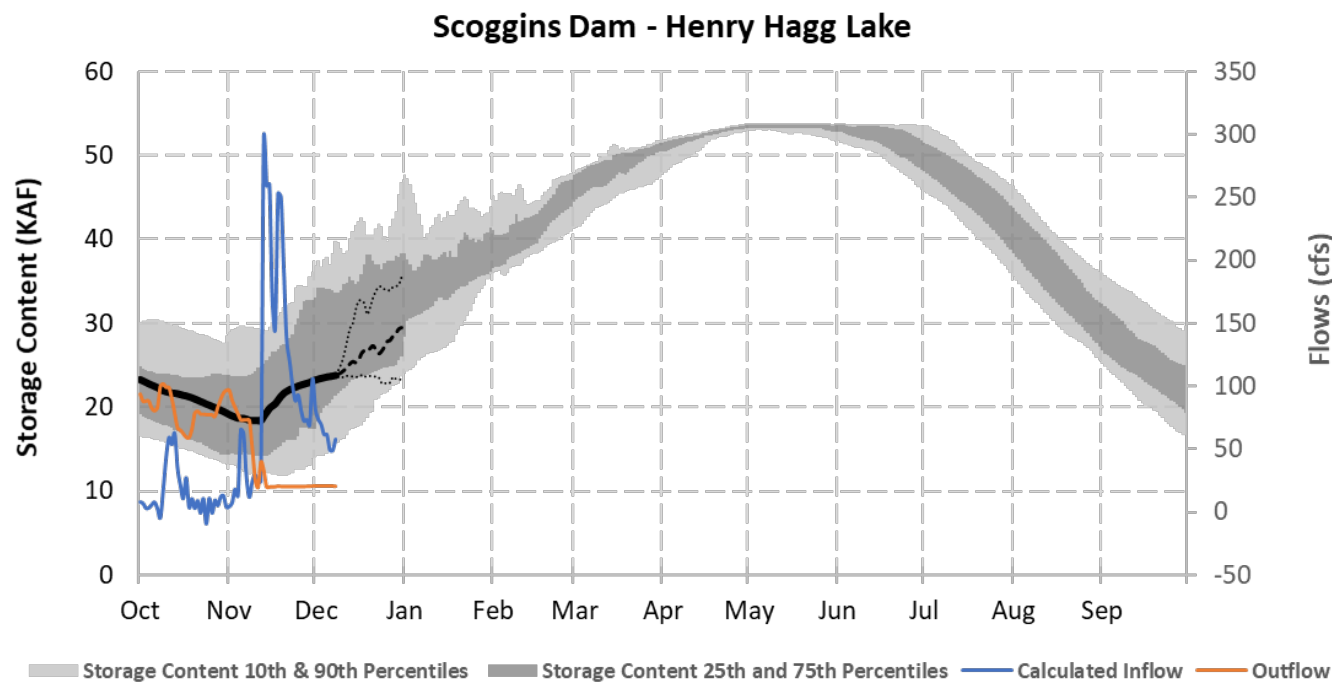
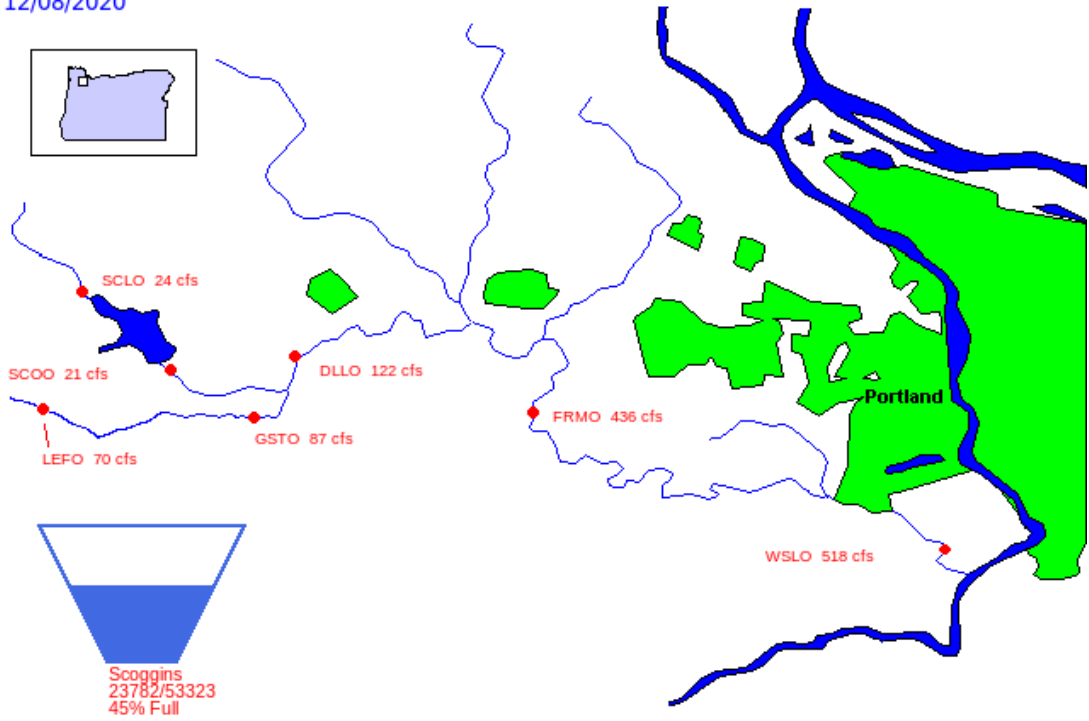
12/08/2020



*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Tualatin River Basin

12/08/2020



*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

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— BUREAU OF —
RECLAMATION