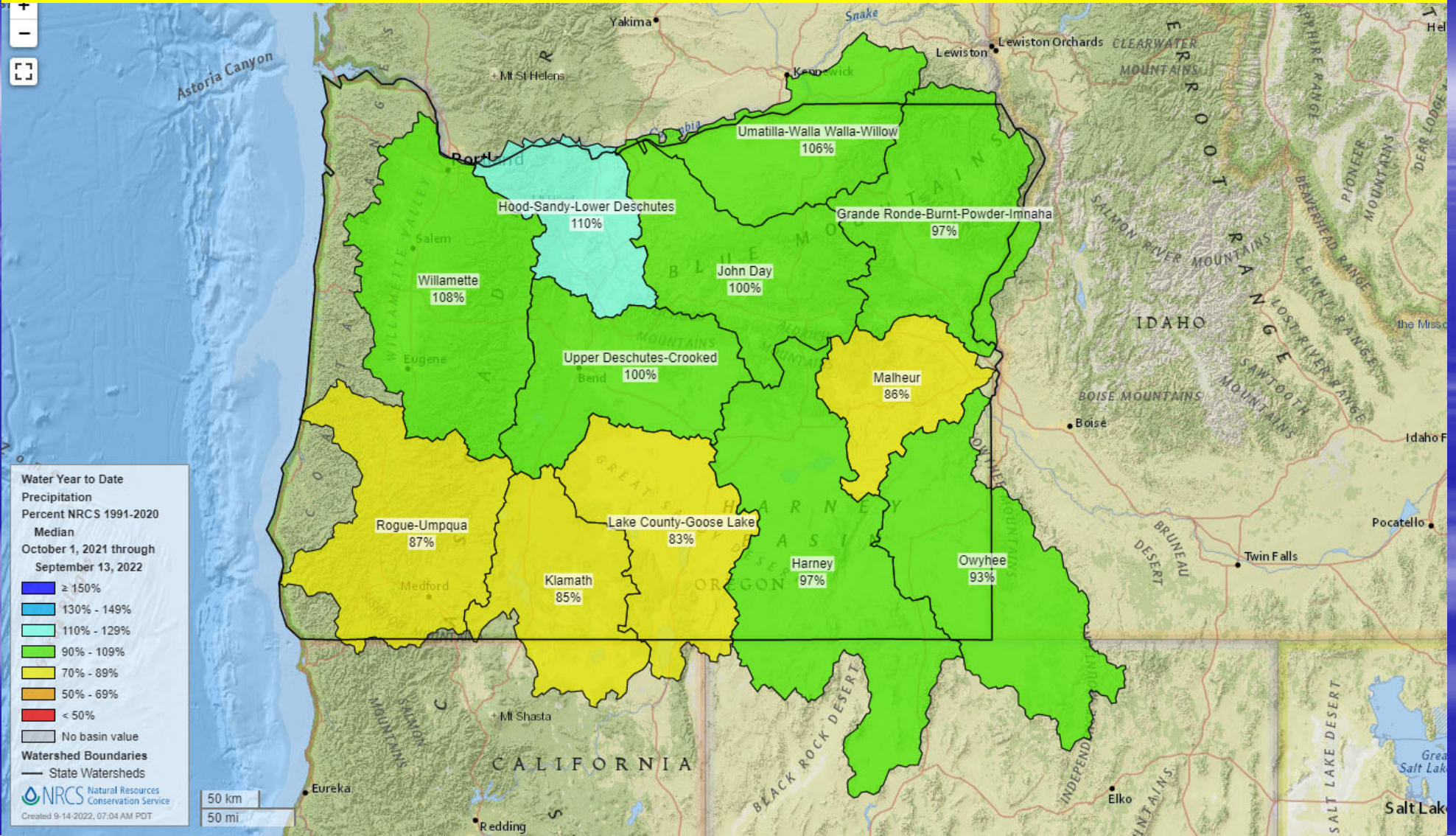


Oregon Water Supply Availability Committee September 14, 2022

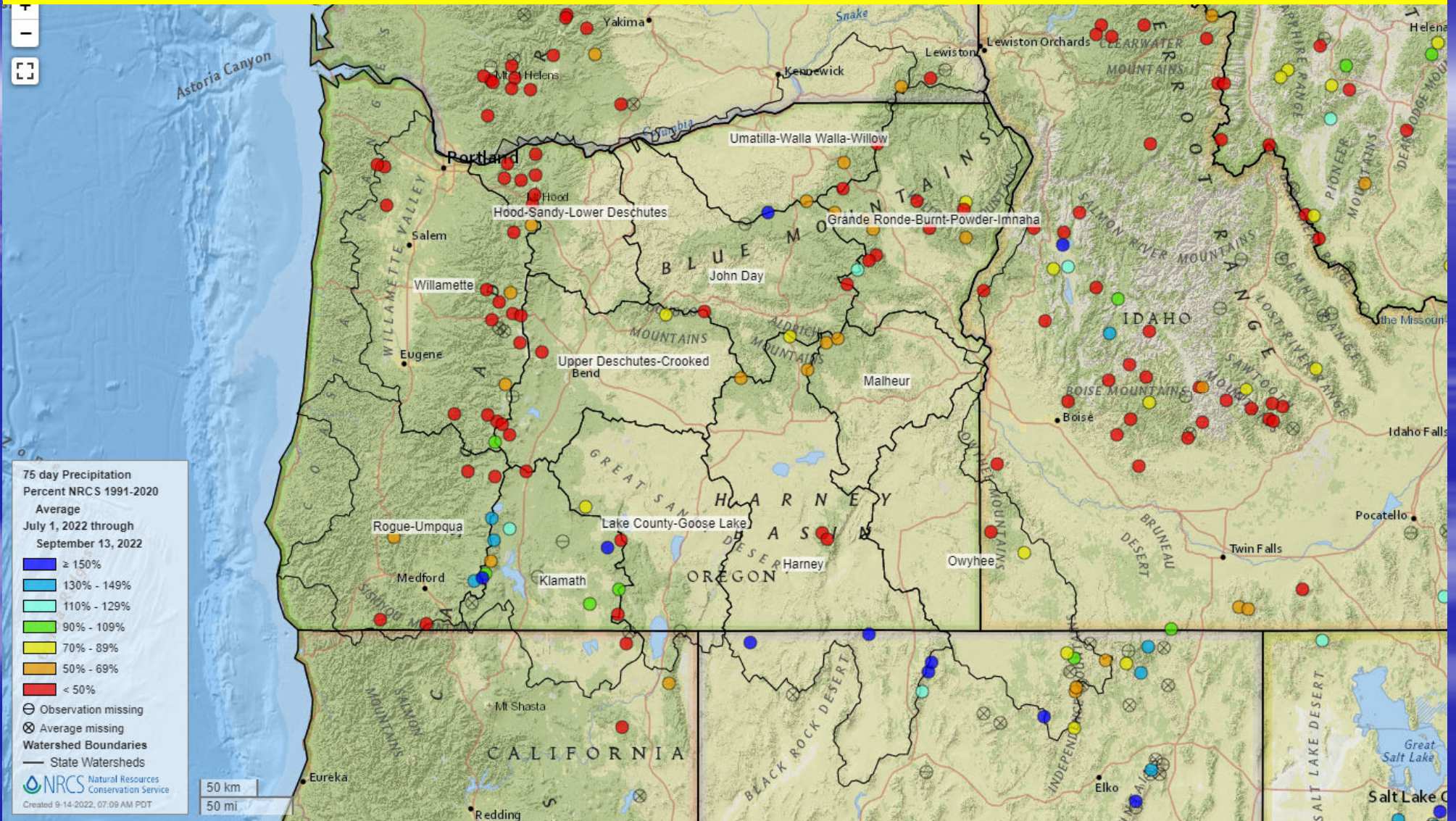


H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
541-429-2359

September 14, 2022, SNOTEL Water Year Precipitation is 100% of 1991-2020 median

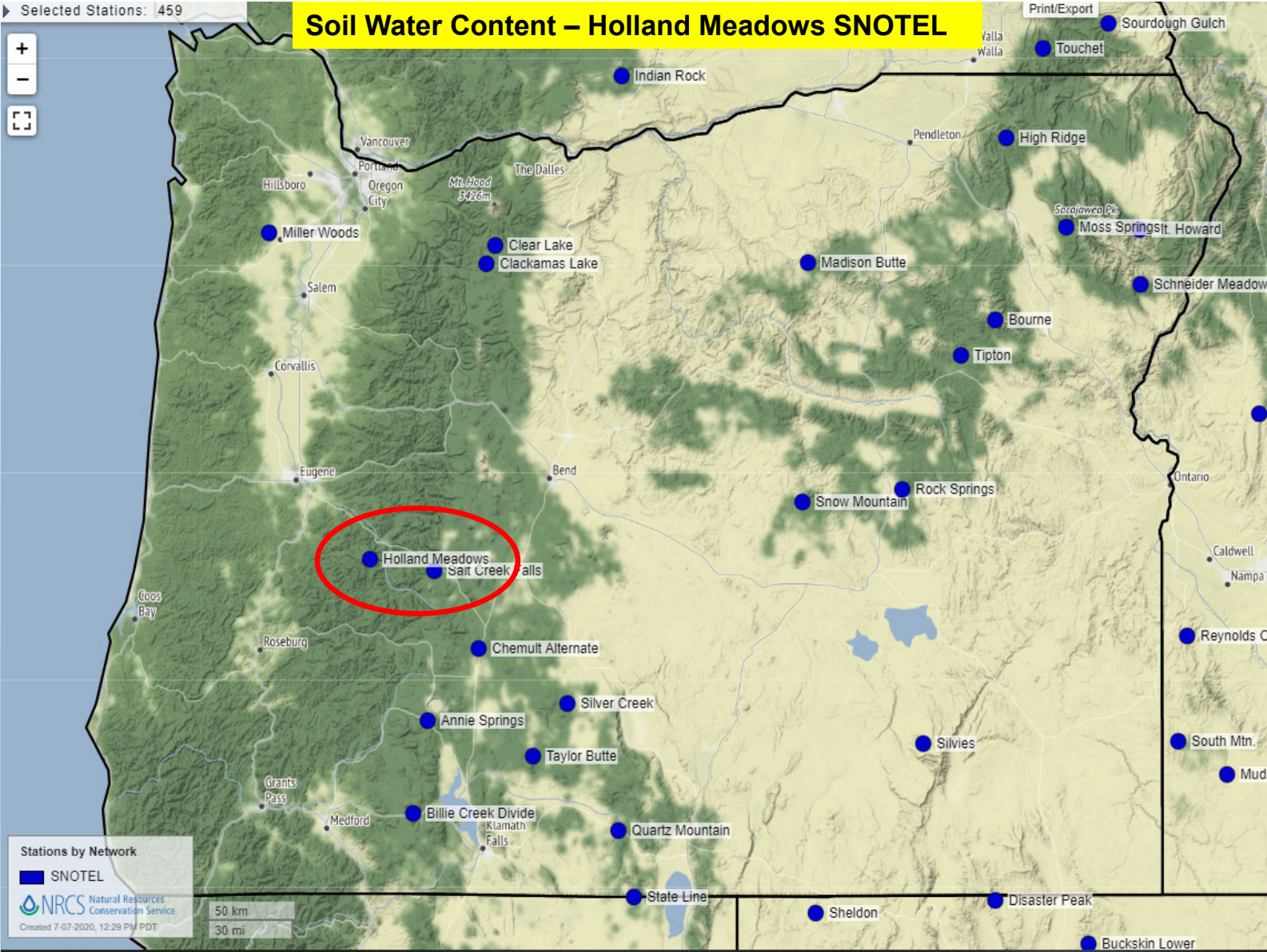


July 1, 2022 – September 13, 2022, SNOTEL Precipitation % Period of Record Median



Selected Stations: 459

Soil Water Content – Holland Meadows SNOTEL



Stations by Network

- SNOTEL

NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT

50 km
30 mi

Print/Export

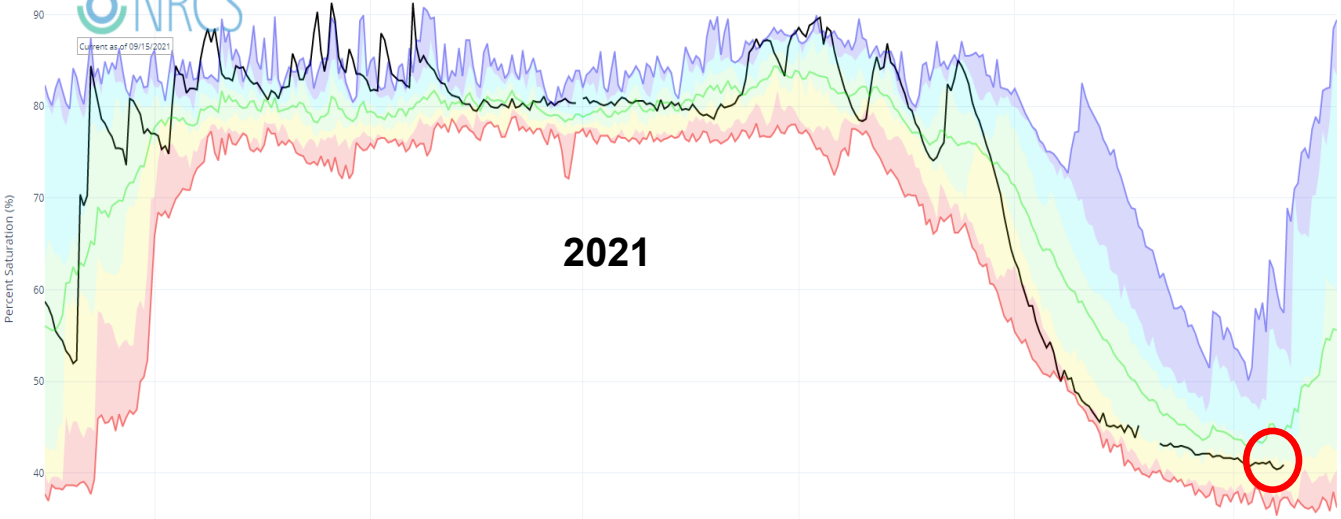
Soil Water Content – Holland Meadows SNOTEL (POR 2011-2022)

DEPTH AVERAGED SOIL SATURATION AT
HOLLAND MEADOWS

[Reset Range](#)



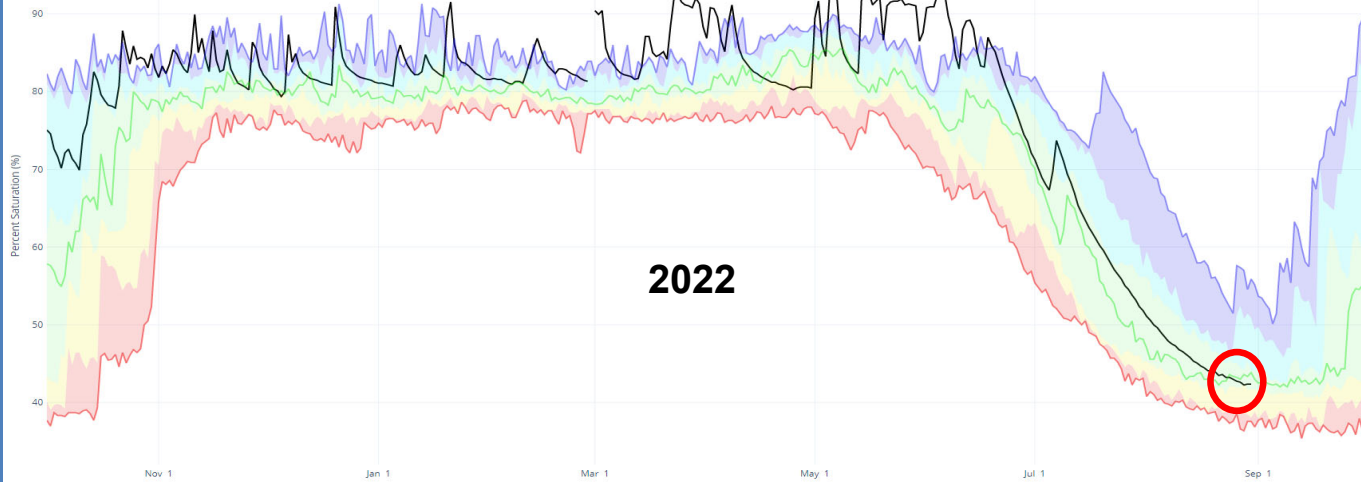
Current as of 09/15/2021



HOLLAND MEADOWS

[Reset Range](#)

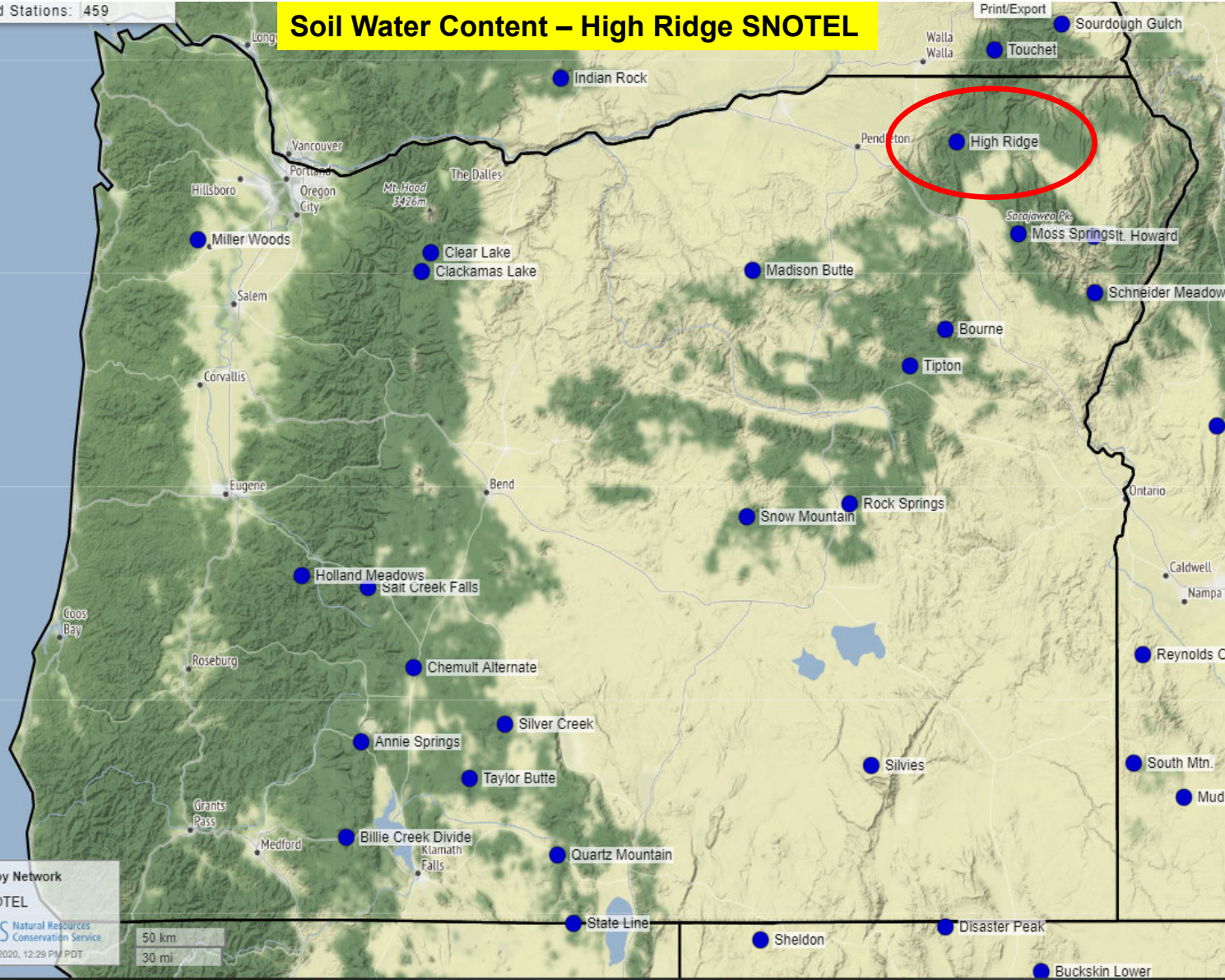
Current as of 09/12/2022



[Link to data: CSV / JSON](#)

Selected Stations: 459

Soil Water Content – High Ridge SNOTEL



Stations by Network

- SNOTEL

NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT

50 km
30 mi

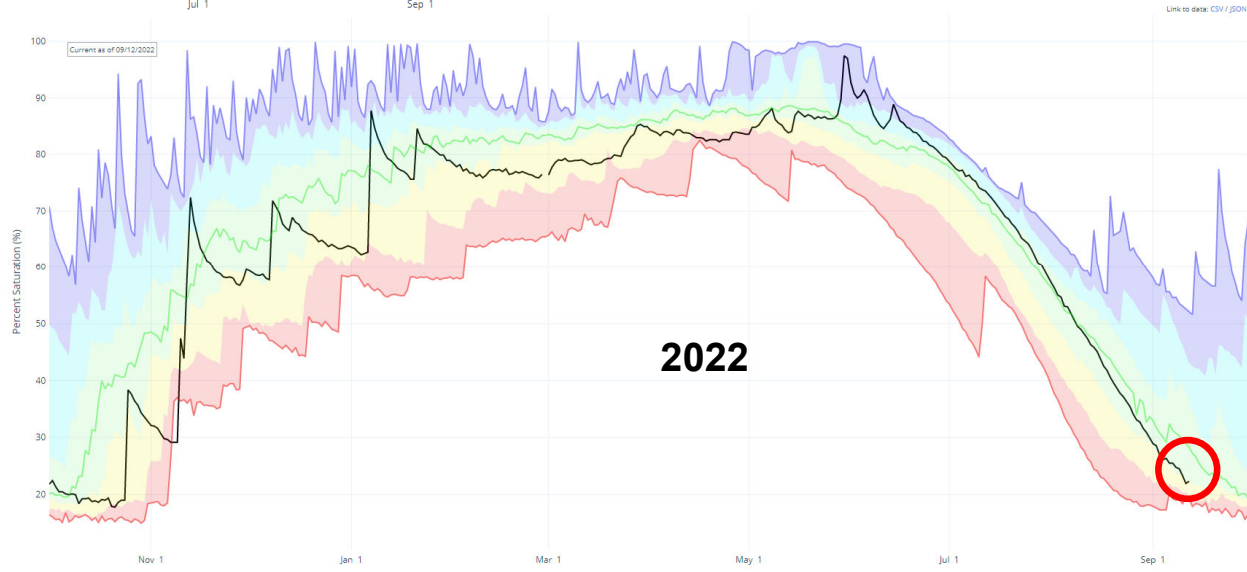
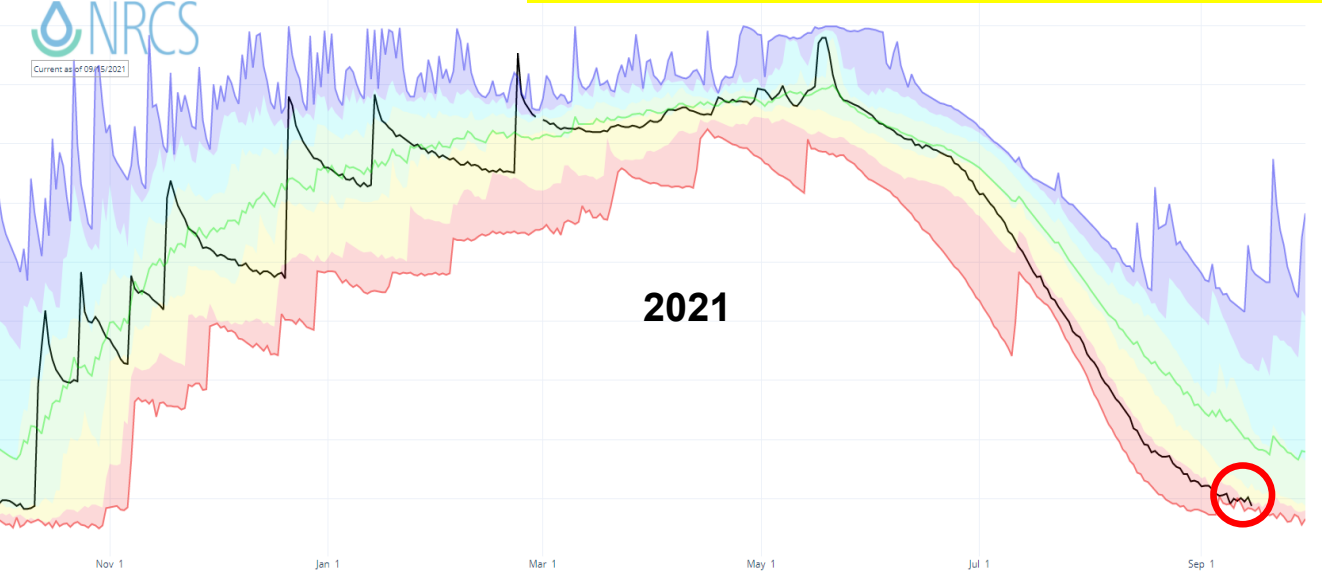
Print/Export

Soil Water Content – High Ridge SNOTEL (POR 2004-2022)

DEPTH AVERAGED SOIL SATURATION AT
HIGH RIDGE



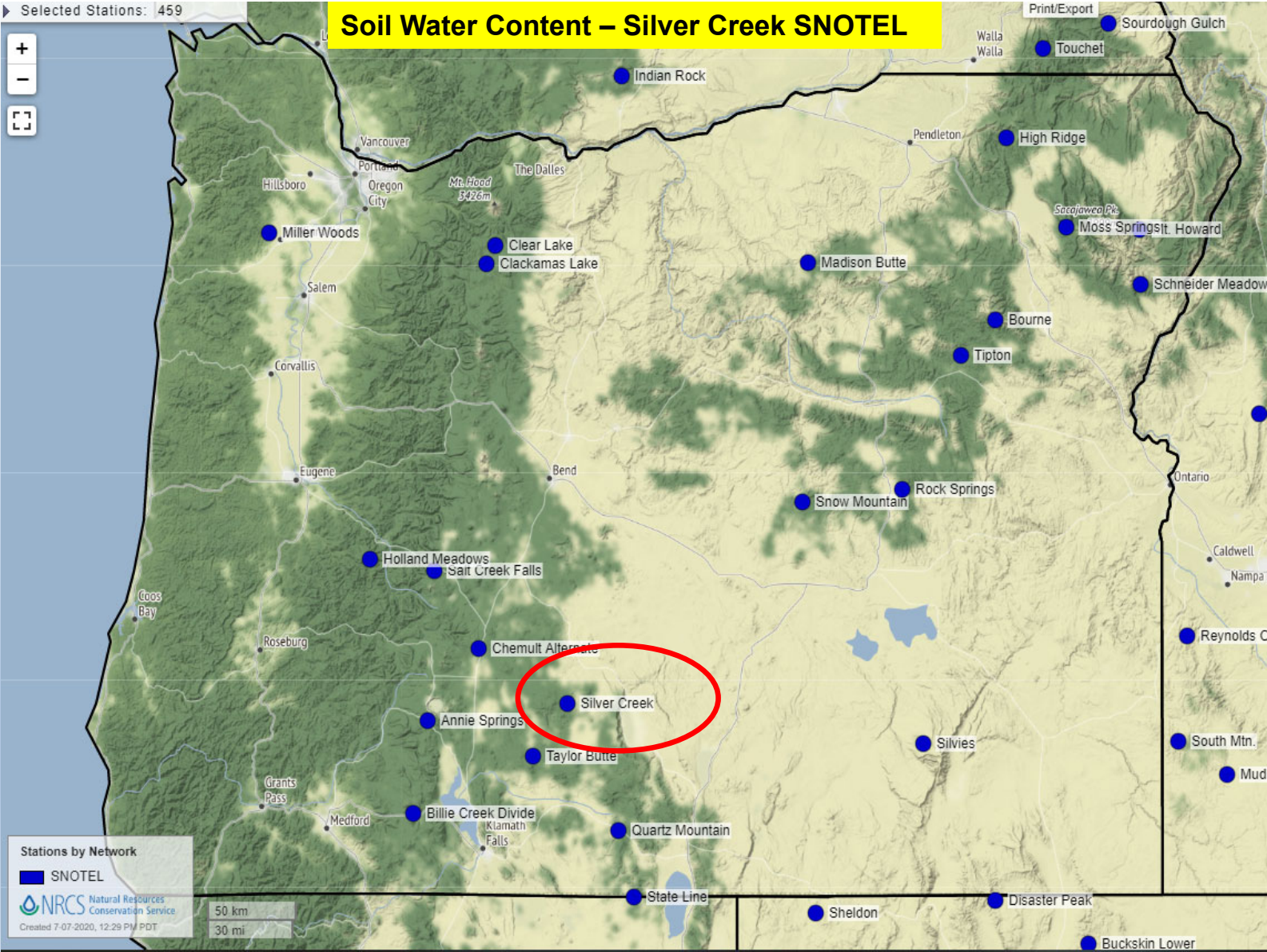
Current as of 09/15/2021



[Link to data: CSV / JSON](#)

Selected Stations: 459

Soil Water Content – Silver Creek SNOTEL



Stations by Network

- SNOTEL

Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT

50 km
30 mi

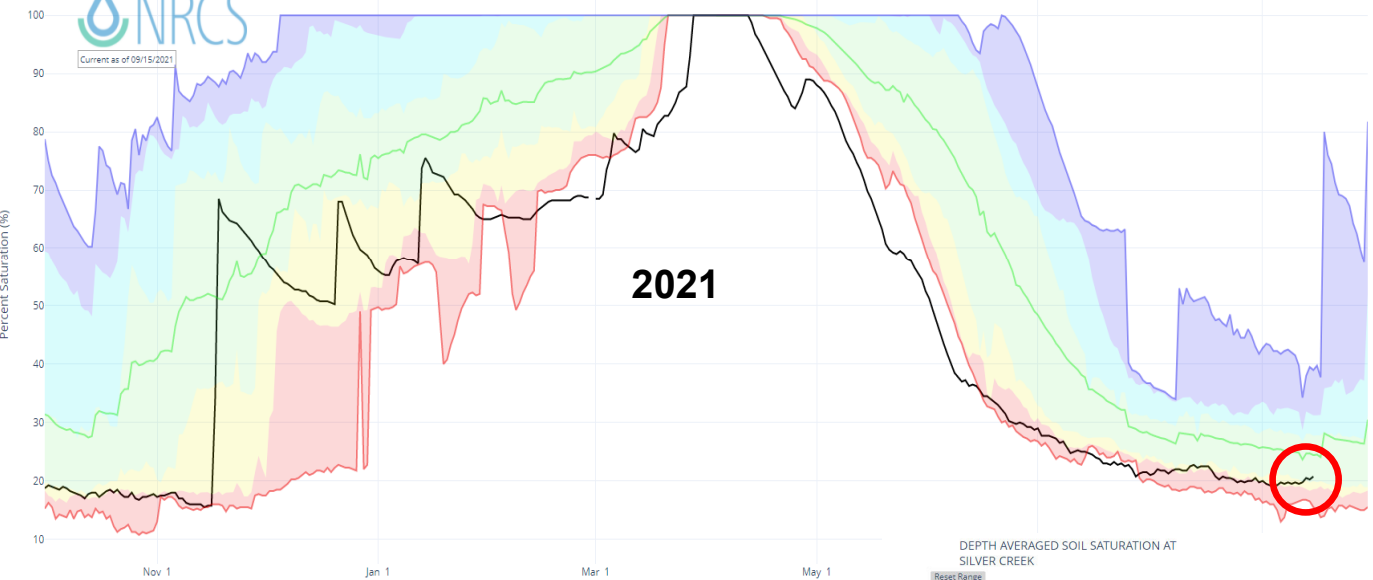
Soil Water Content – Silver Creek SNOTEL (2004-2022)

DEPTH AVERAGED SOIL SATURATION AT SILVER CREEK

Reset Range



Current as of 09/15/2021



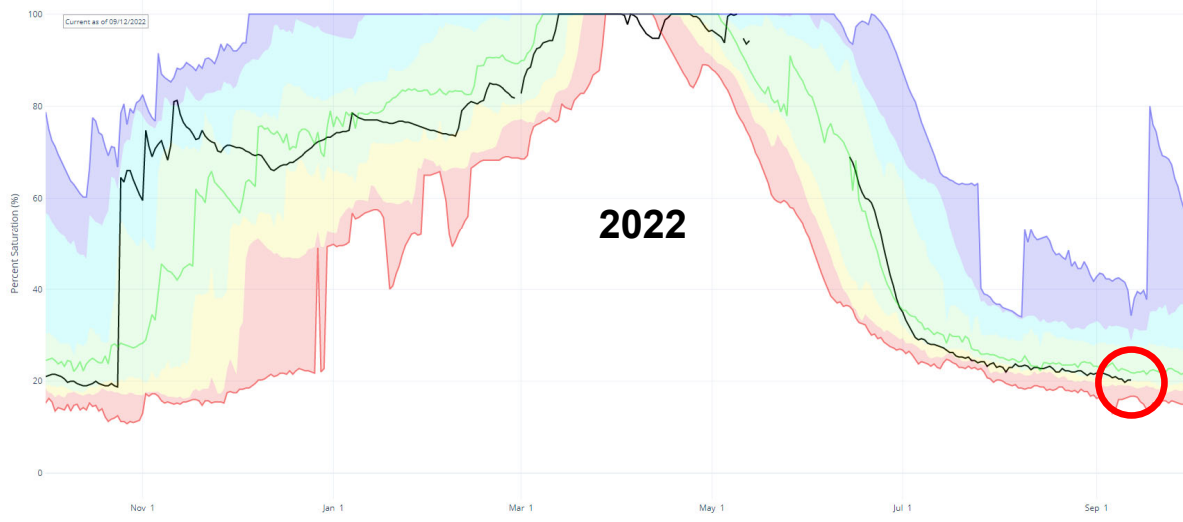
2021

DEPTH AVERAGED SOIL SATURATION AT SILVER CREEK

Reset Range

Current as of 09/12/2022

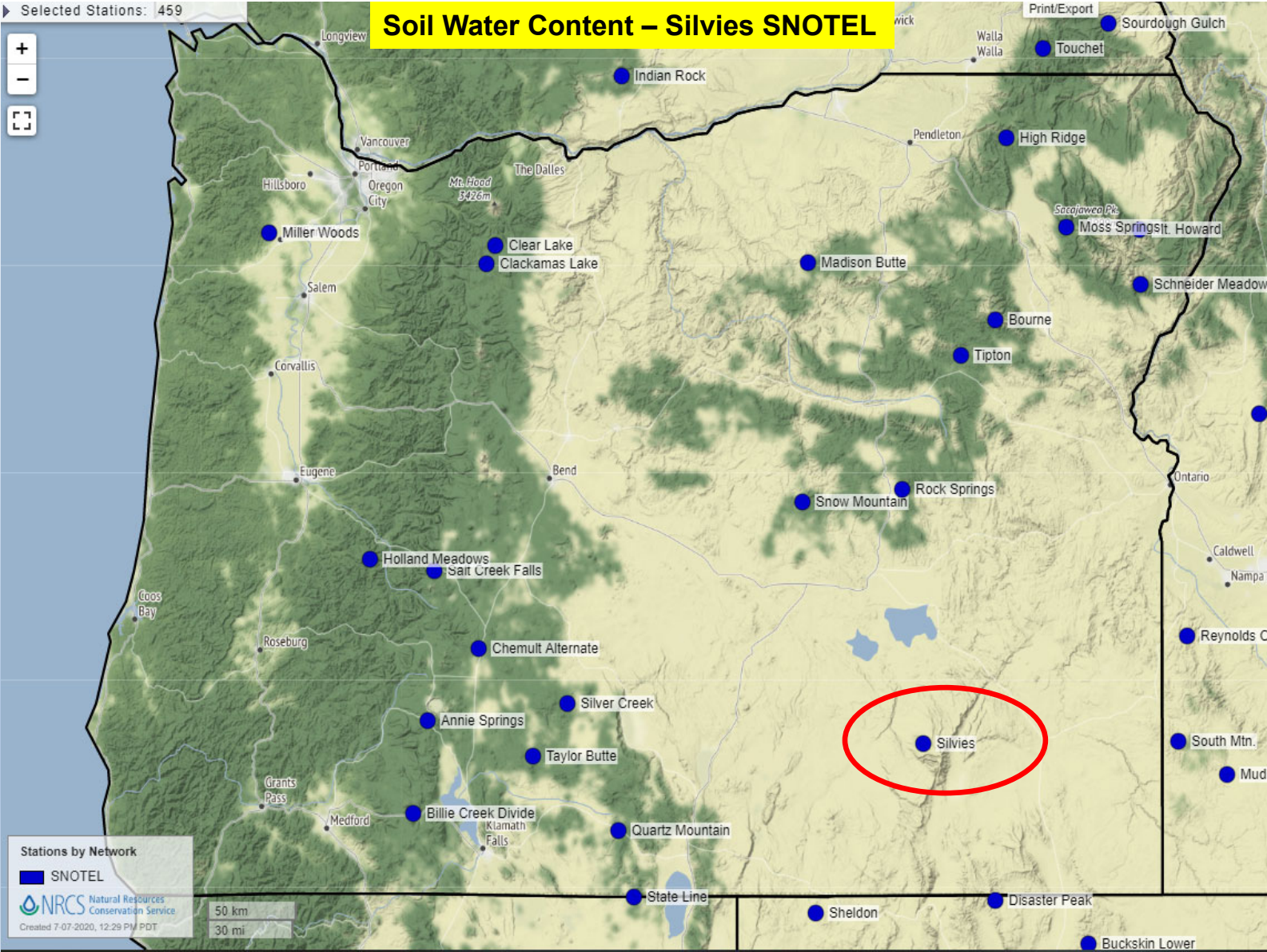
Link to data: CSV / JSON



2022

Selected Stations: 459

Soil Water Content – Silvies SNOTEL



Stations by Network

- SNOTEL

NRCS Natural Resources Conservation Service
Created 7-07-2020, 12:29 PM PDT

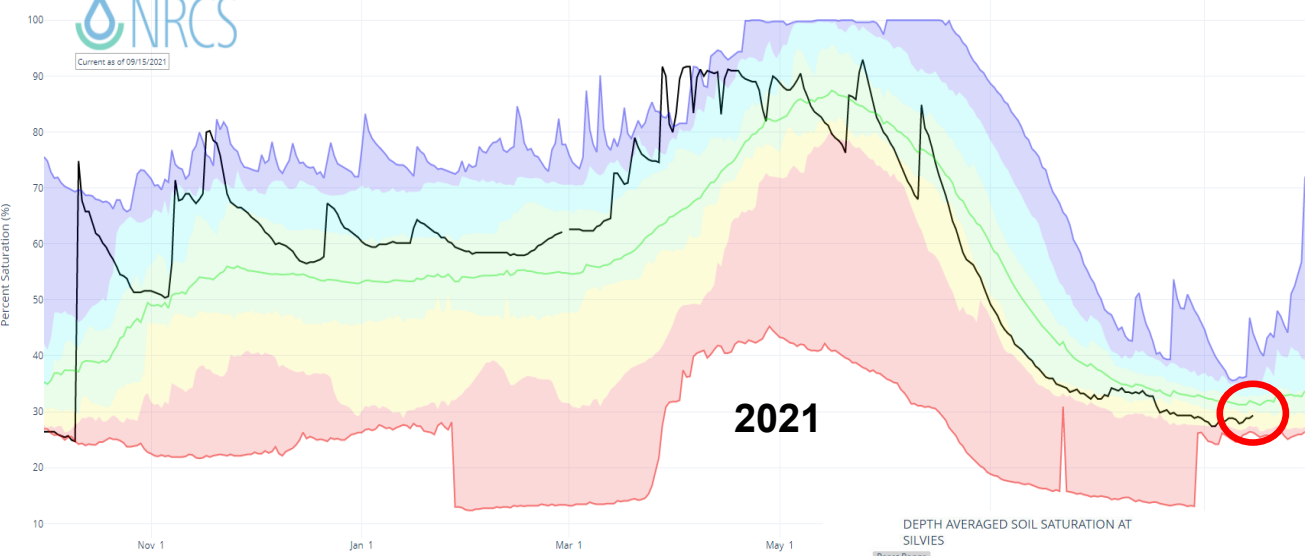
50 km
30 mi

Soil Water Content – Silvies SNOTEL (1997-2022)

DEPTH AVERAGED SOIL SATURATION AT SILVIES



Current as of 09/15/2021



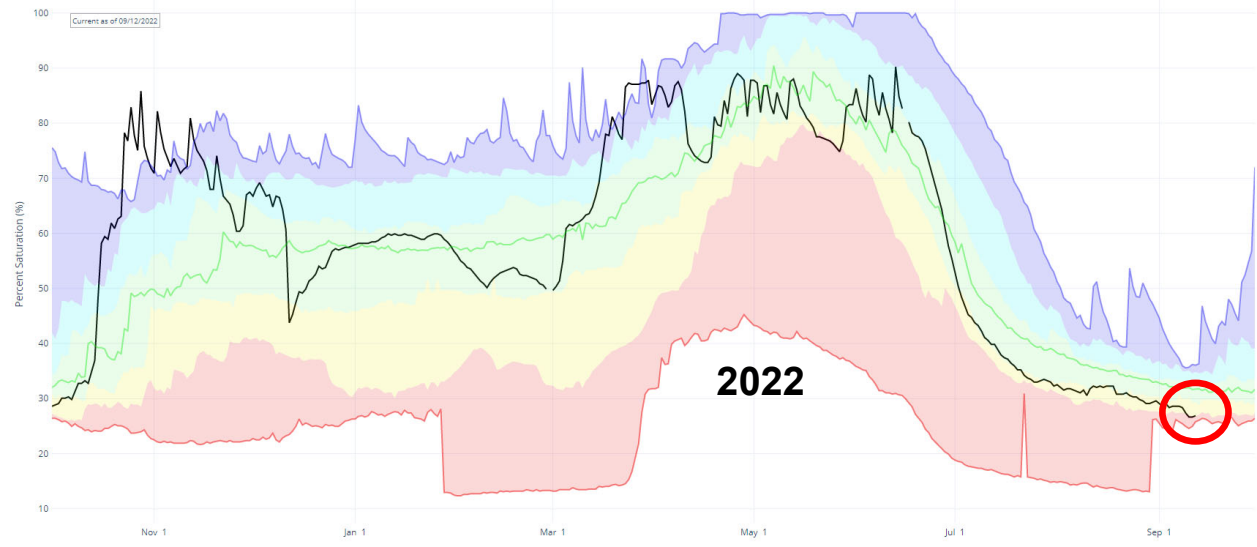
2021

DEPTH AVERAGED SOIL SATURATION AT SILVIES

Reset Range

Current as of 09/12/2022

Link to data: CSV / JSON



2022

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.

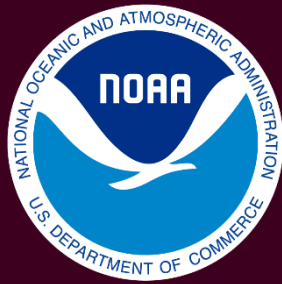
Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotope, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay 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 September 14, 2022



H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
541-429-2359



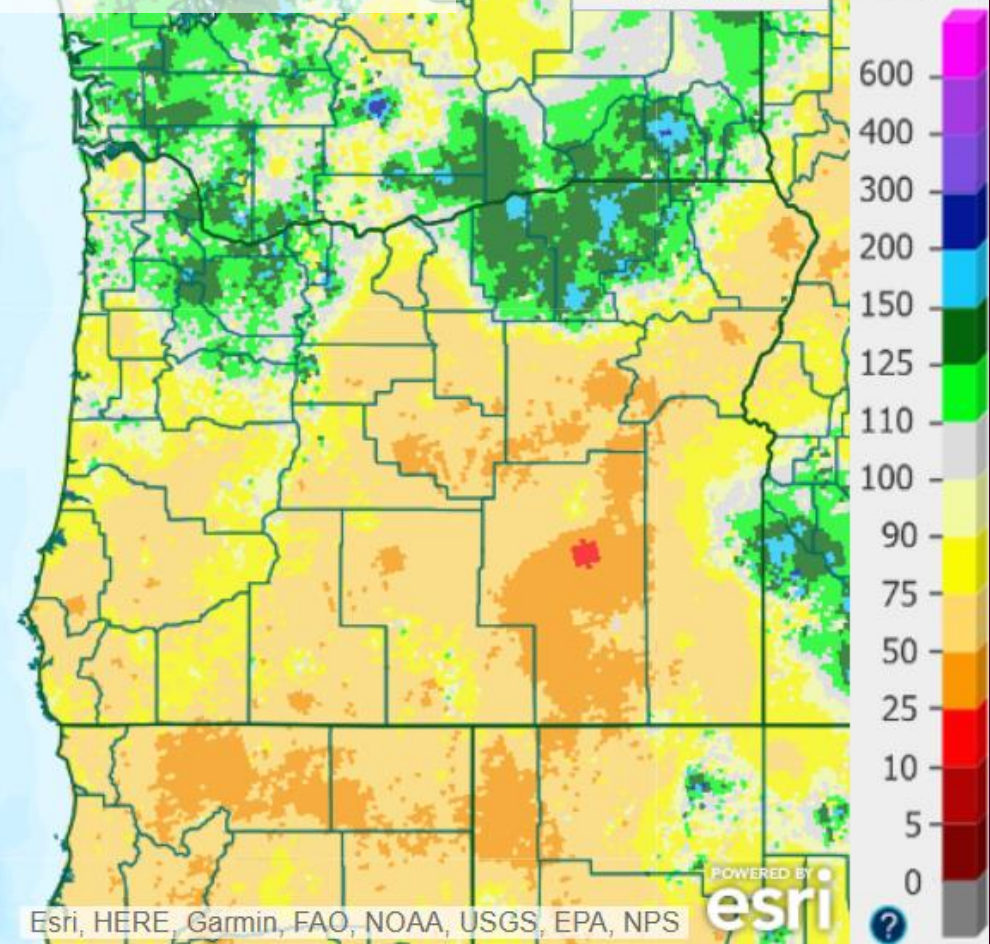
September 2022 Update for Precipitation, Temperatures, and Water Supply

NOAA National Weather Service

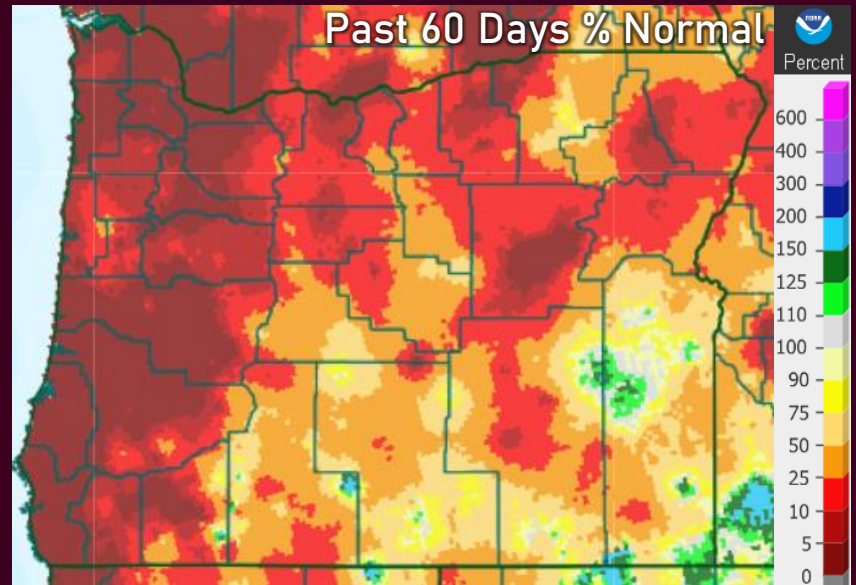


Precipitation

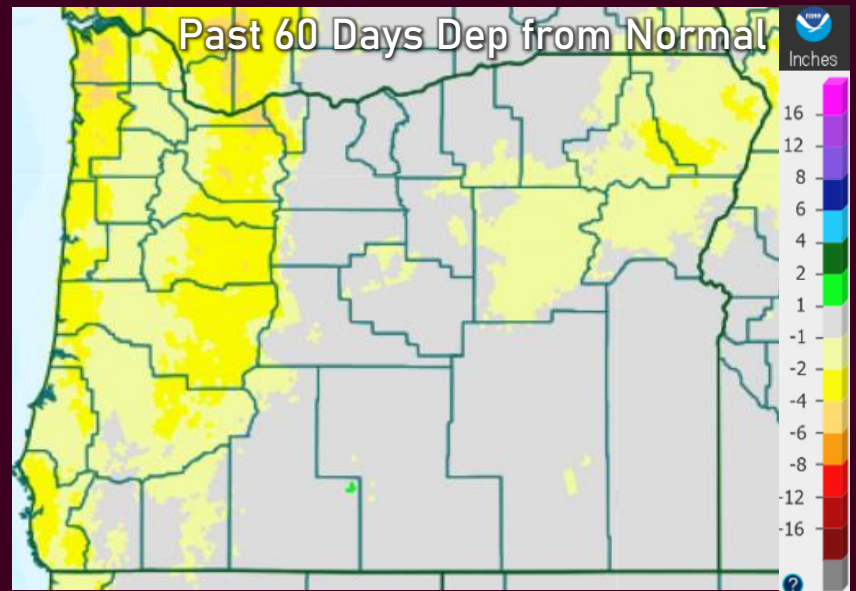
Water Year
Percent of Normal



Past 60 Days % Normal



Past 60 Days Dep from Normal



Precipitation Data as of September 13, 2022

water.weather.gov/precip/index.php

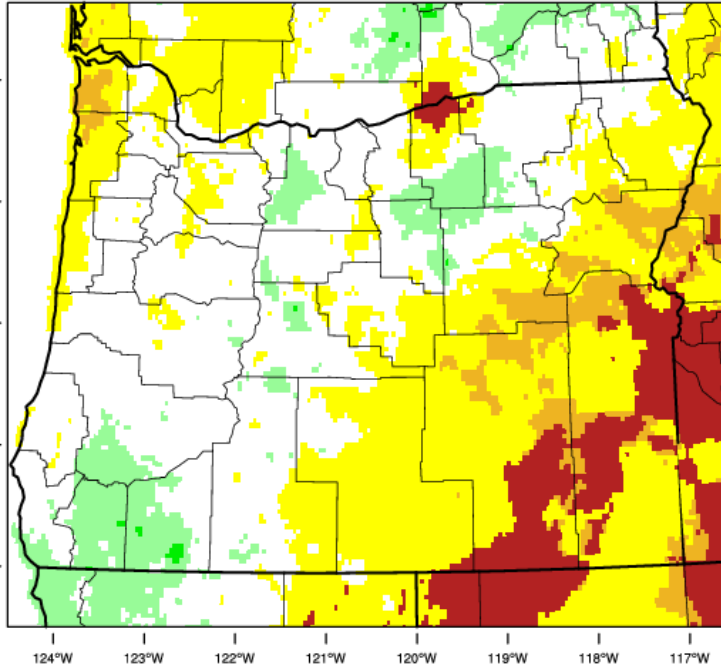


Precipitation - Percentile / Ranking

July

Oregon - Precipitation

July 2022 Percentile

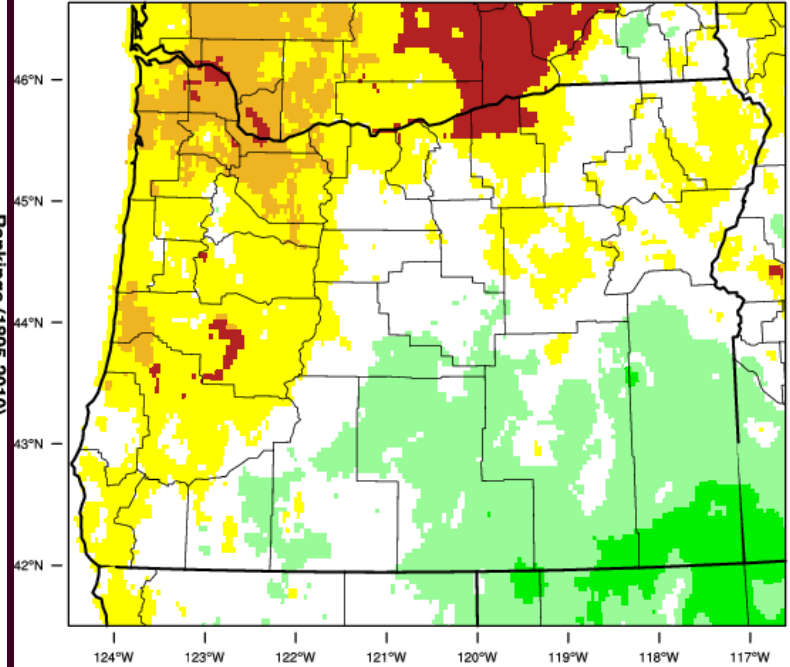


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 AUG 2022

August

Oregon - Precipitation

August 2022 Percentile



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 SEP 2022

Rankings (1895-2010)

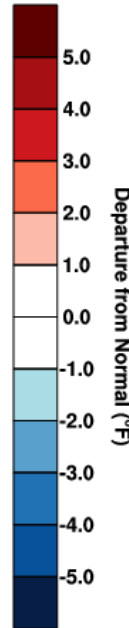
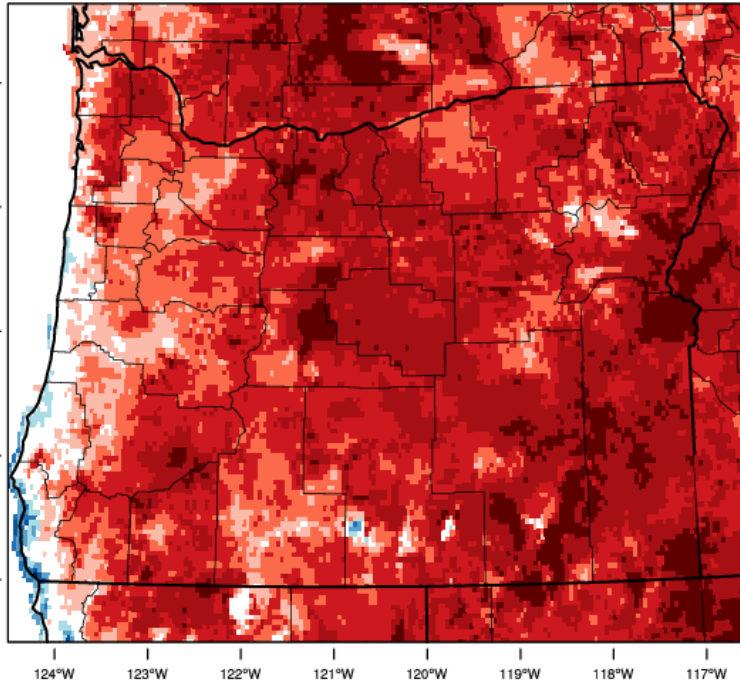
Rankings (1895-2010)



Recent Temperatures

July

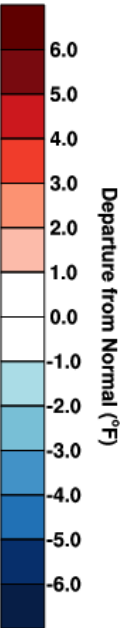
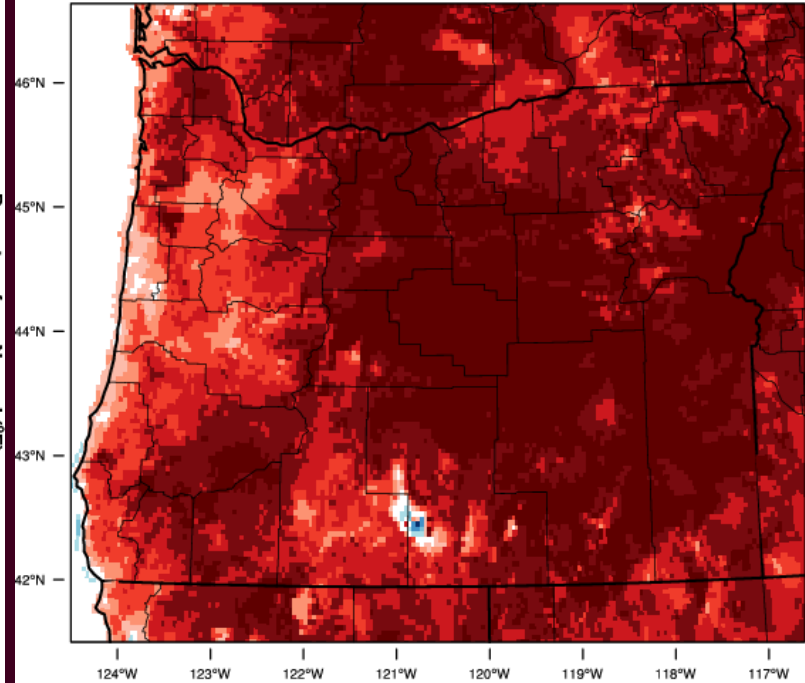
Oregon - Mean Temperature
July 2022 Departure from 1981-2010 Normal



WestWide Drought Tracker, U Idaho WRCC Data Source: PRISM (Prelim), created 16 AUG 2022

August

Oregon - Mean Temperature
August 2022 Departure from 1981-2010 Normal



WestWide Drought Tracker, U Idaho WRCC Data Source: PRISM (Prelim), created 11 SEP 2022

<https://wrcc.dri.edu/wwdt/index.php?region=pnw>



PDX All-Time Monthly Temperature Record

WARMEST MONTH ON RECORD

Portland, OR - August 2022

75.1° F

The 75.1° average temperature beat the previous record of 74.1° in July 1985. The previous warmest August on record at PDX was 73.6° (2017).

*Records have been kept at PDX since 1941.



NWS Portland



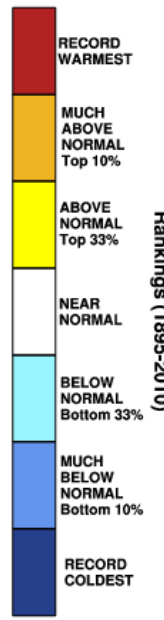
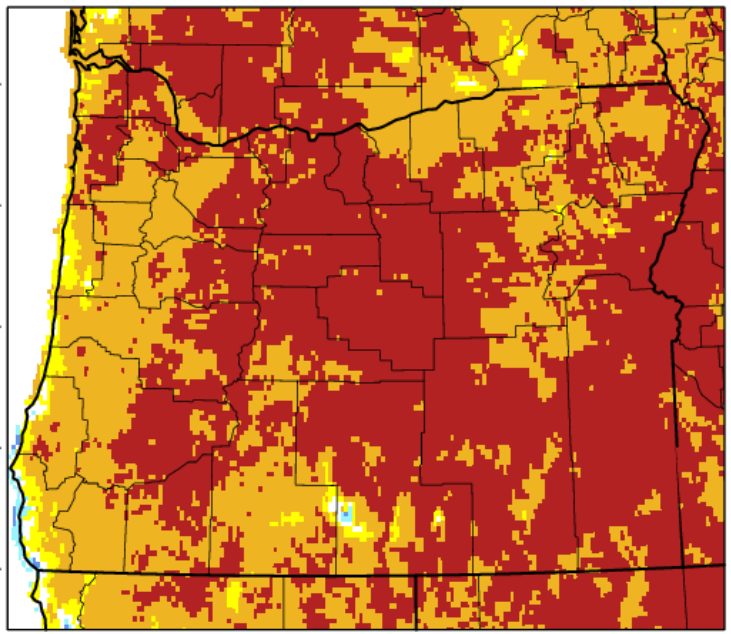
July + August Percentiles

Temperatures

Precipitation

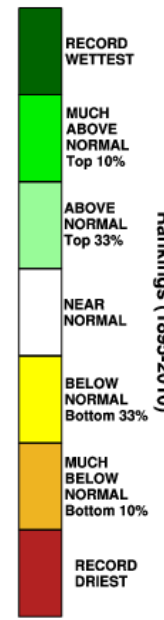
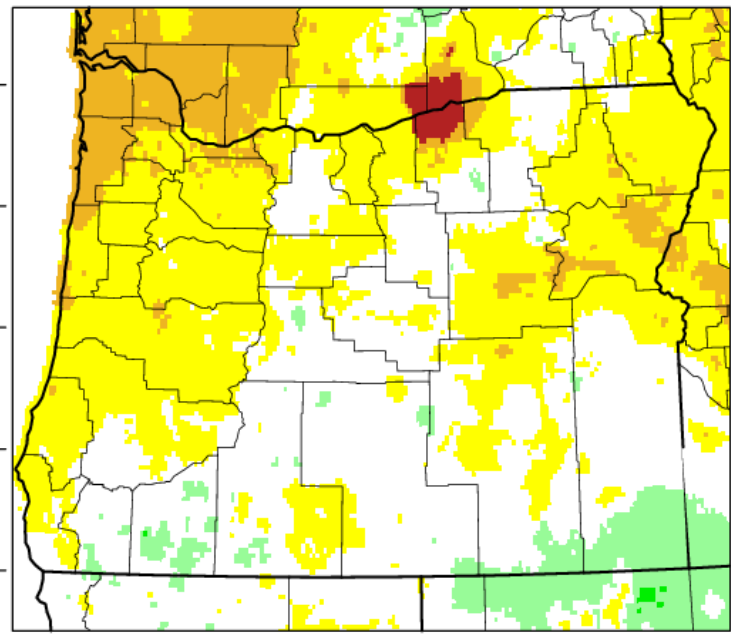
Oregon - Mean Temperature
July-August 2022 Percentile

Oregon - Precipitation
July-August 2022 Percentile



Rankings (1895-2010)

WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 SEP 2022

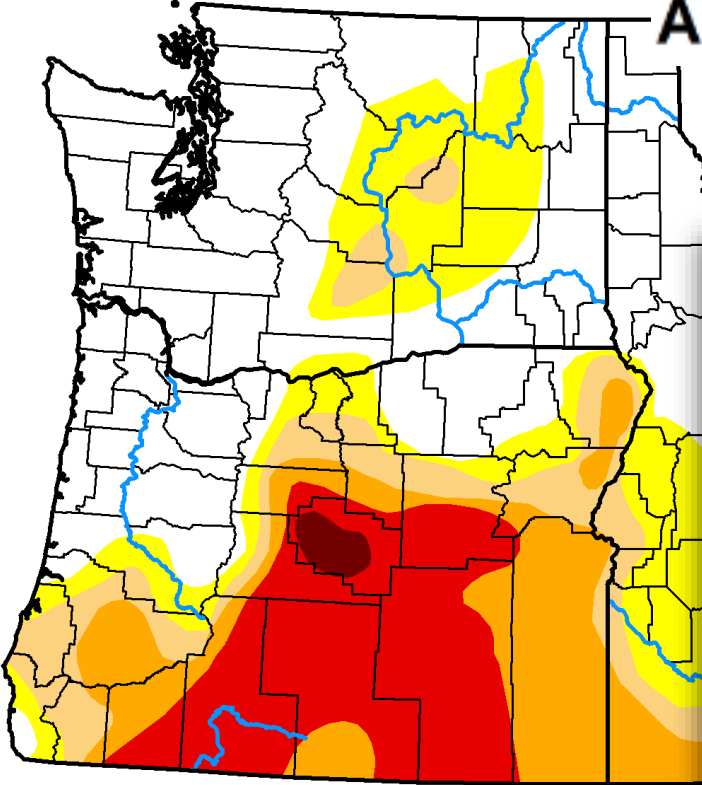


Rankings (1895-2010)

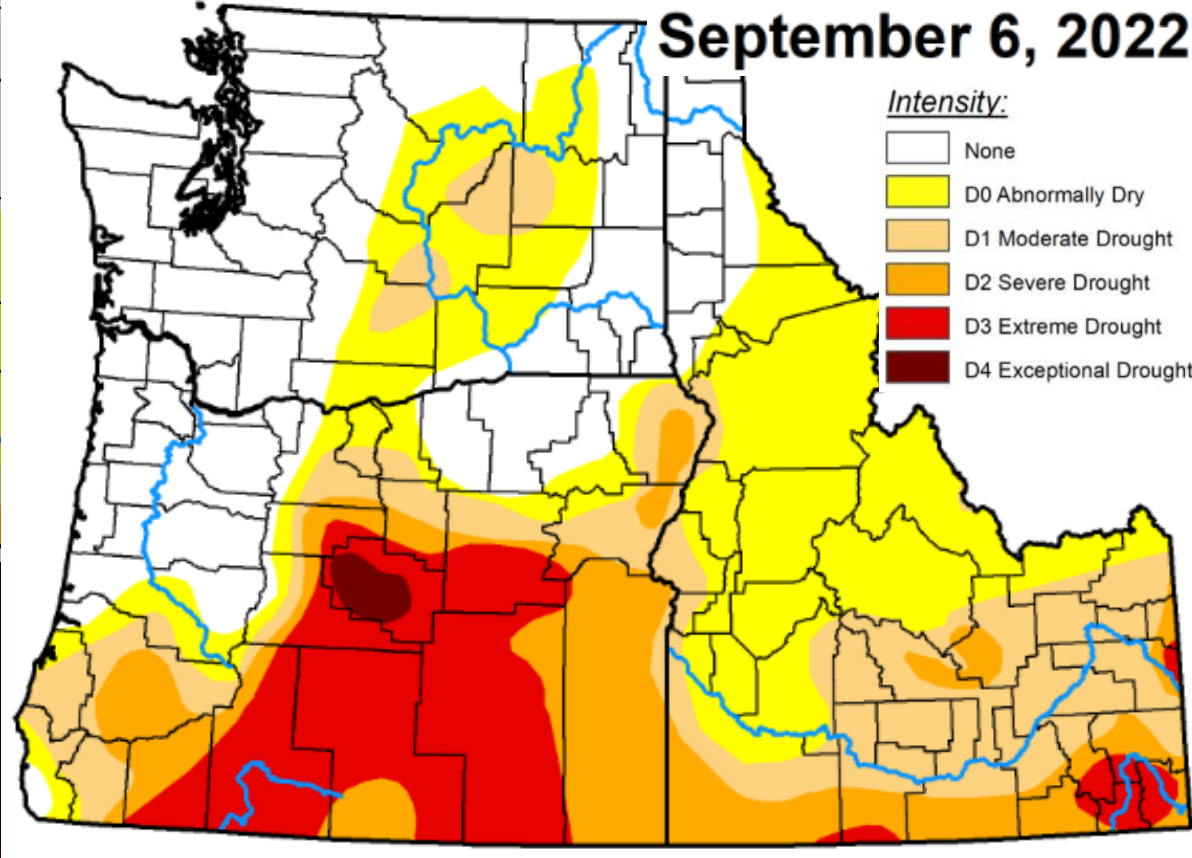
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 SEP 2022

Drought Monitor

August 9, 2022



September 6, 2022



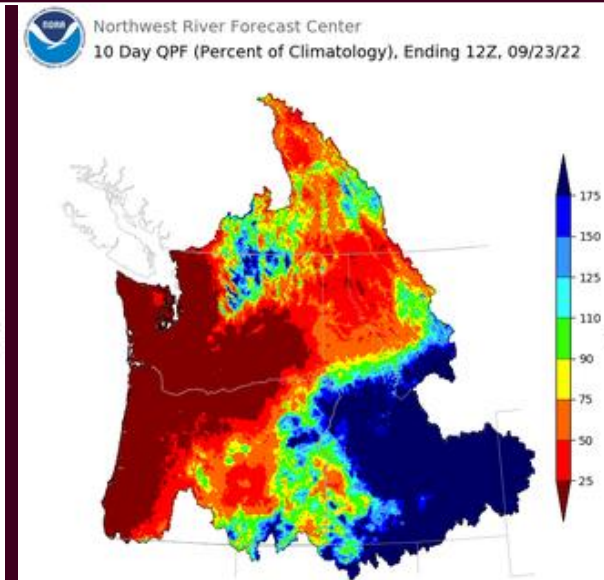
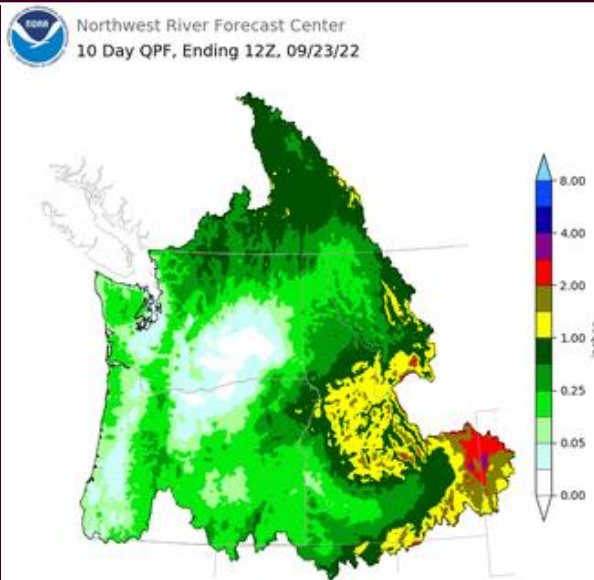
<https://droughtmonitor.unl.edu>



Mid September Outlook

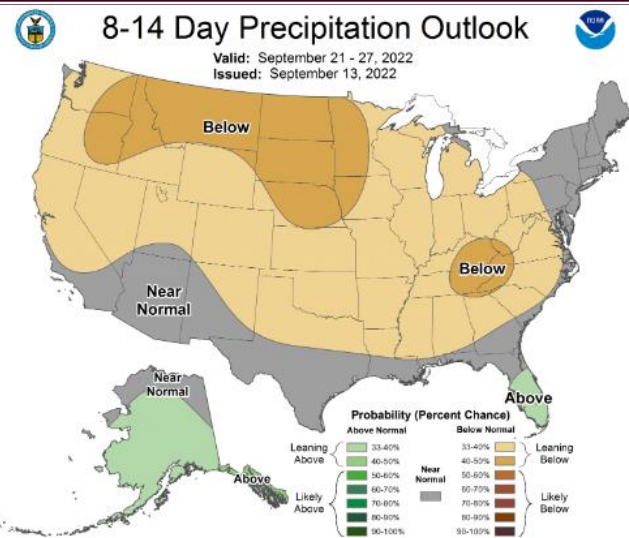
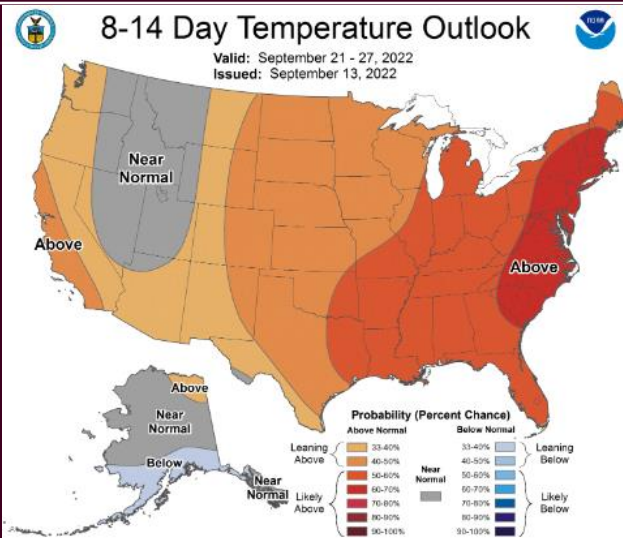
NWRFC 10-DAY PRECIPITATION FORECAST

www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php



CPC 8 - 14 DAY OUTLOOK

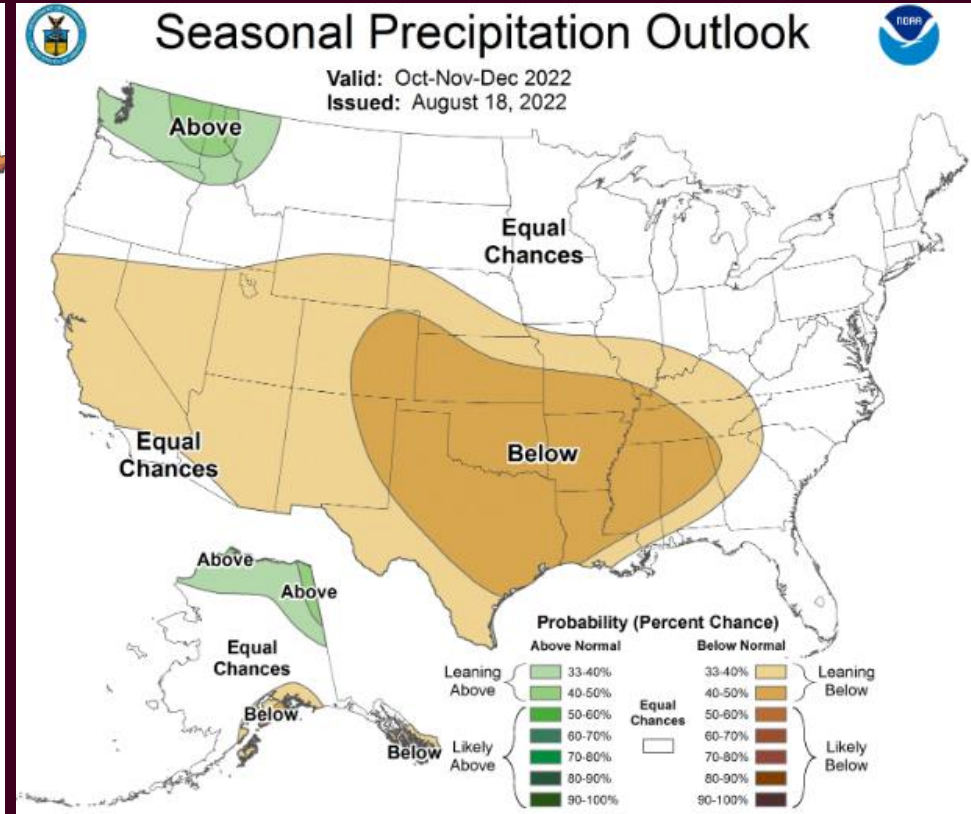
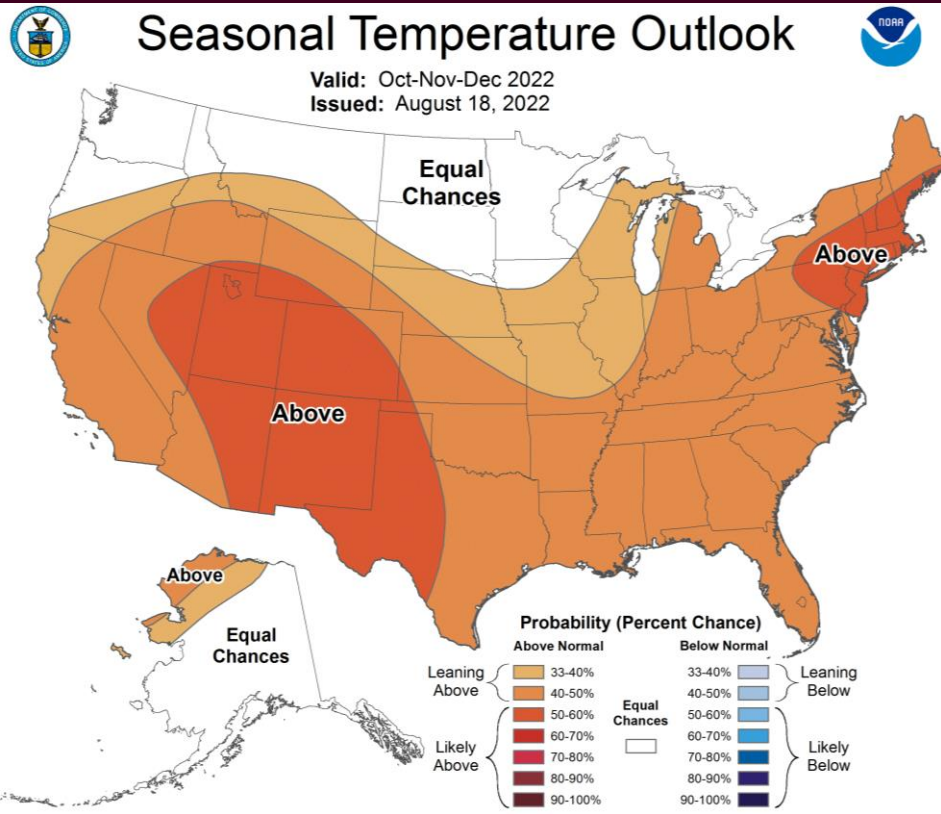
www.cpc.ncep.noaa.gov





Climate Prediction Center Outlook

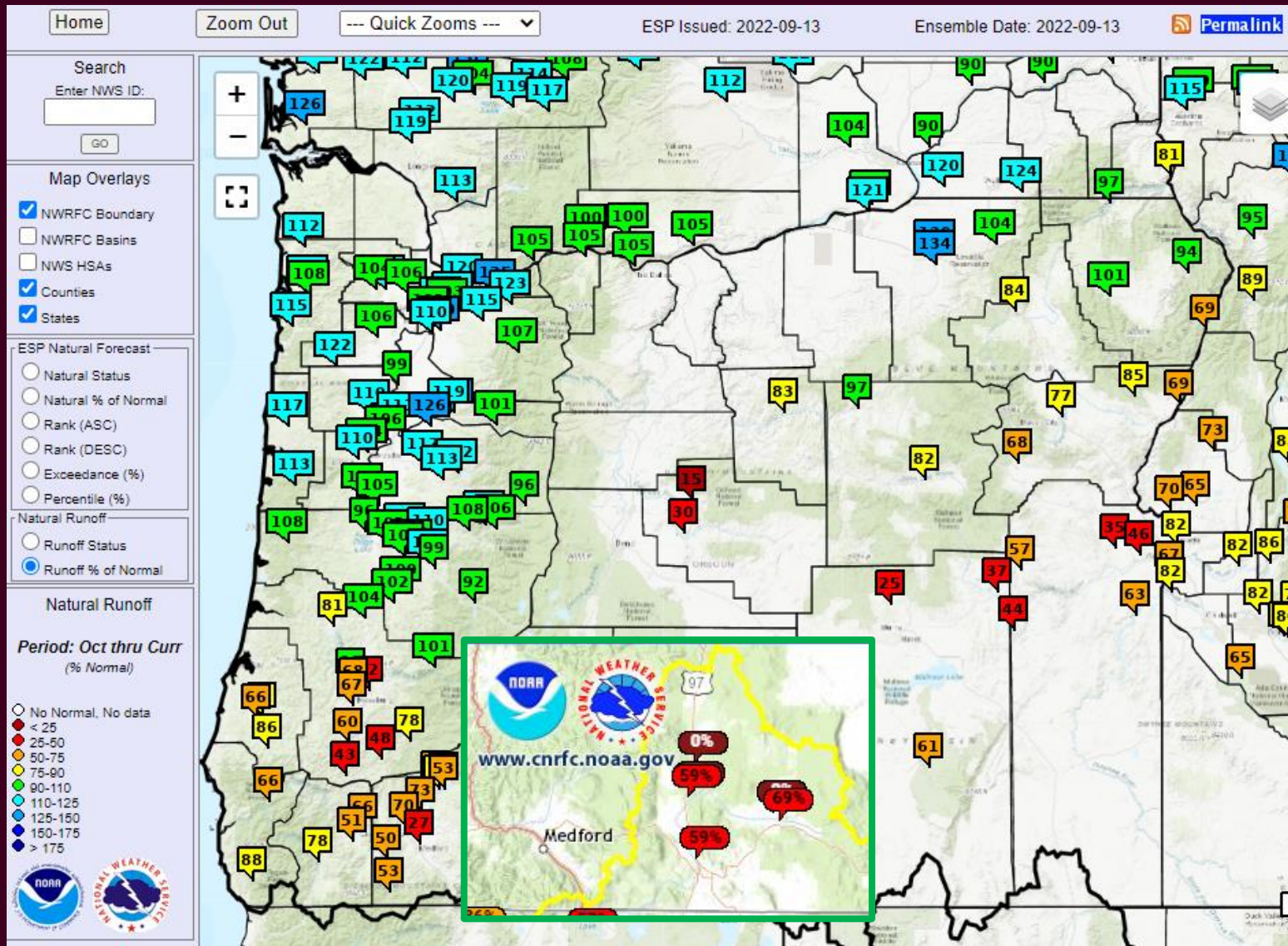
October–November–December 2022



www.cpc.ncep.noaa.gov



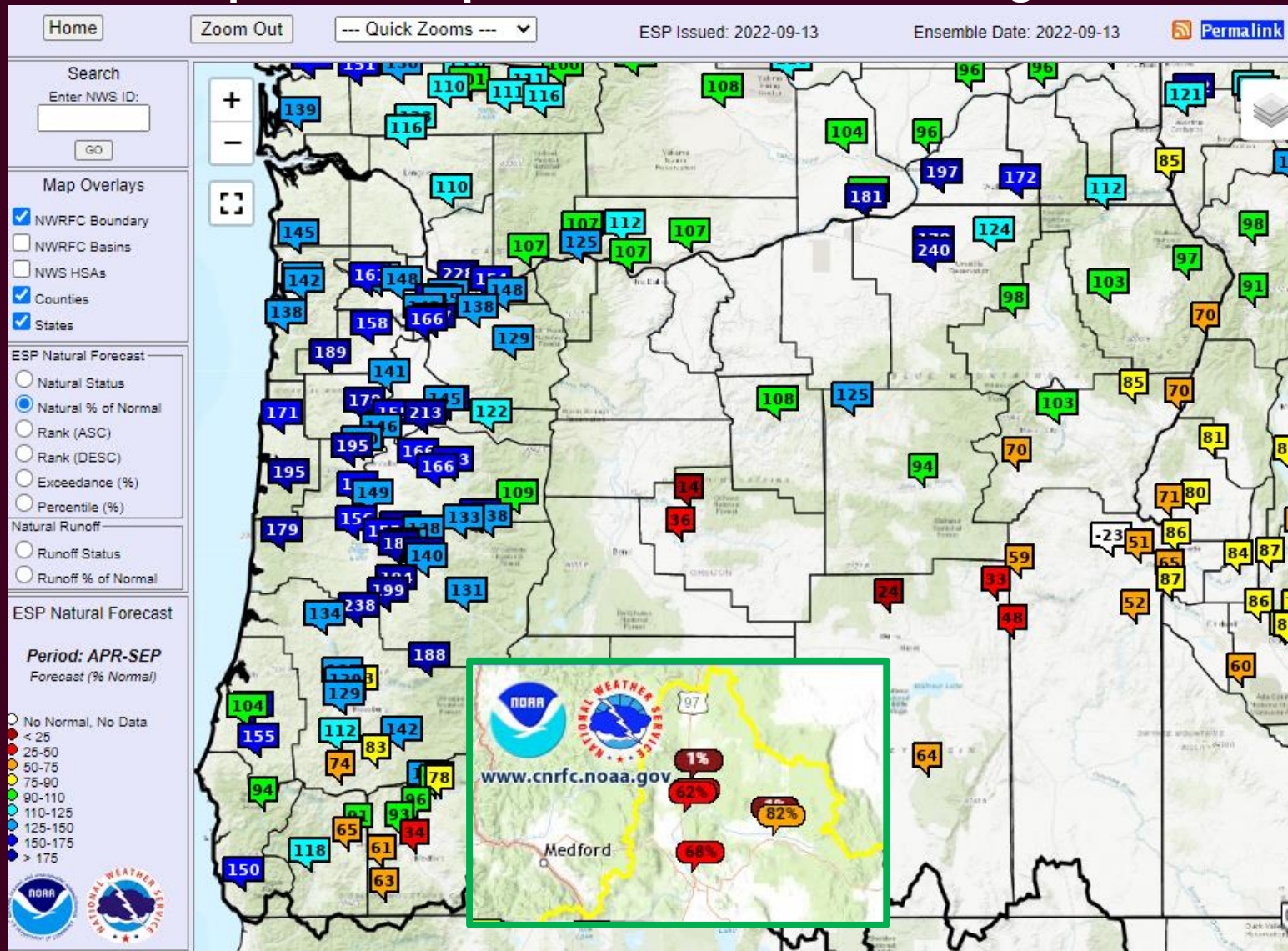
Water Year Runoff % of Average Oct 1 – Sep 13





Seasonal Volume Forecast

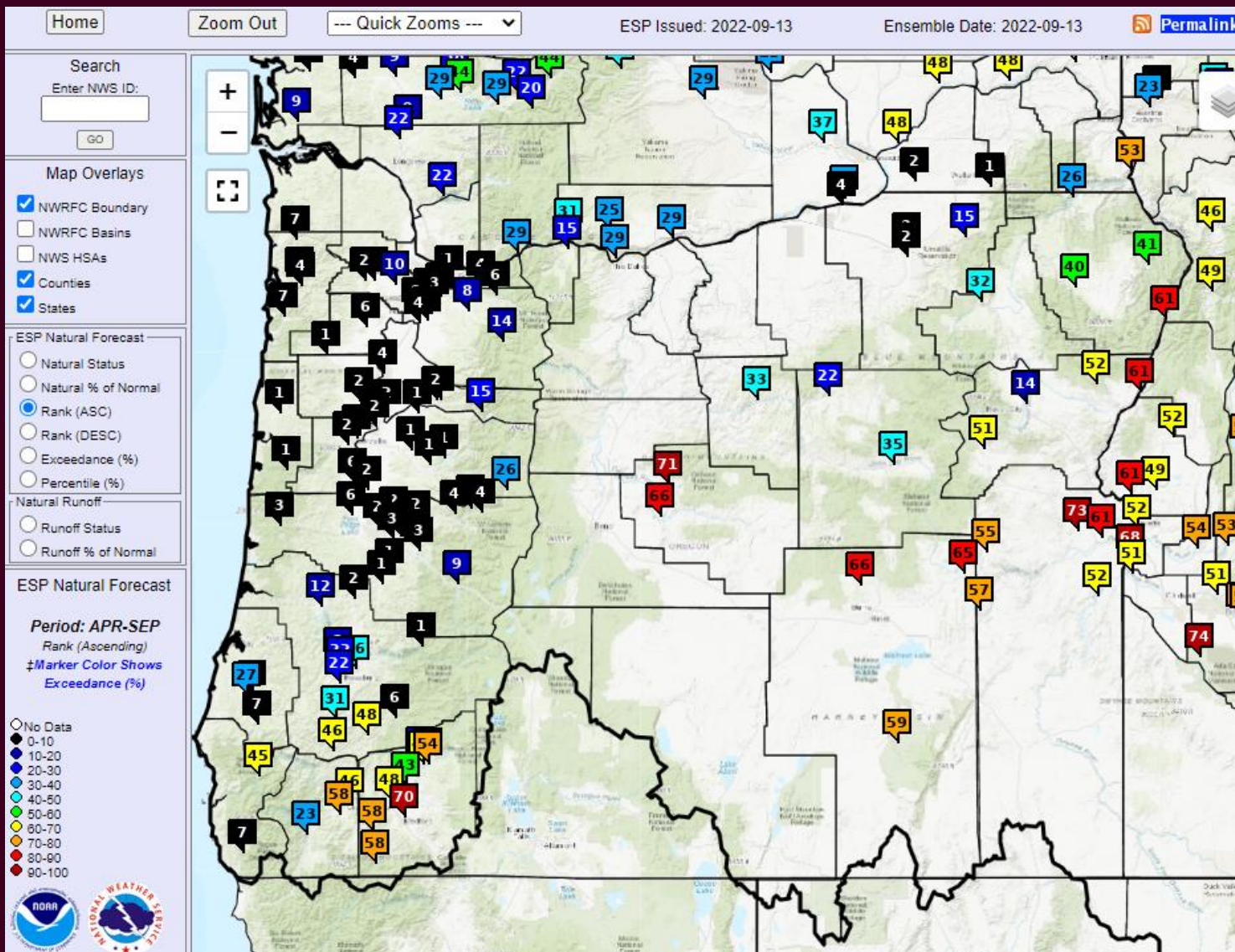
April - September % of Average

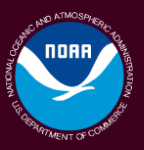




Seasonal Volume Rankings

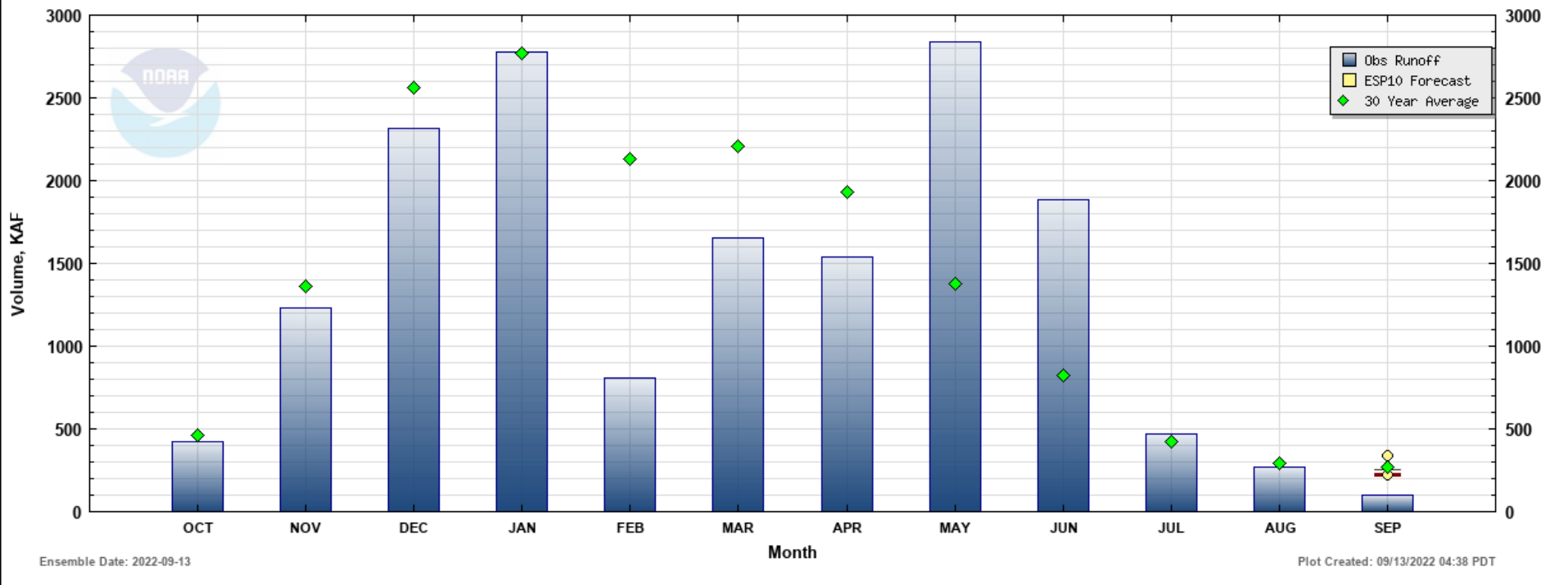
April - September (record 1949 on)

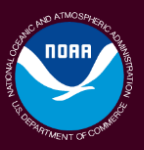




Monthly Natural Volumes Willamette R at Salem

Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(SLMO3) WILLAMETTE - AT SALEM

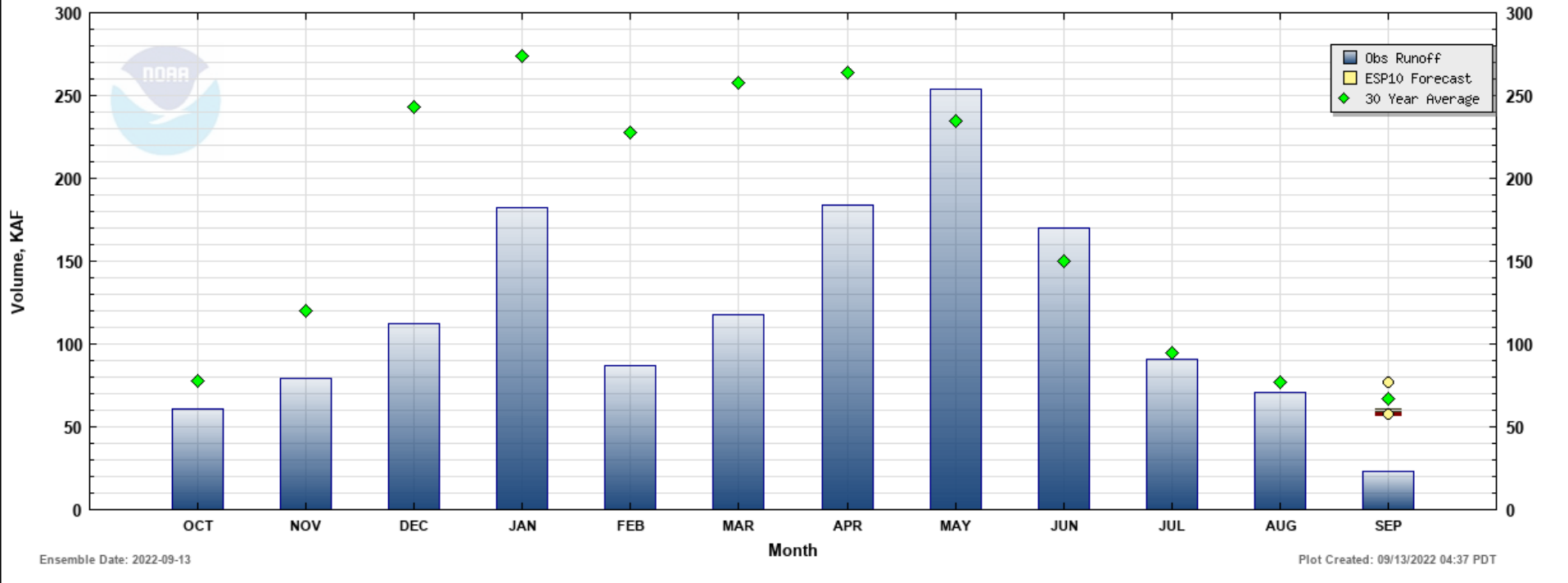




Monthly Natural Volumes

Rogue R near Raygold

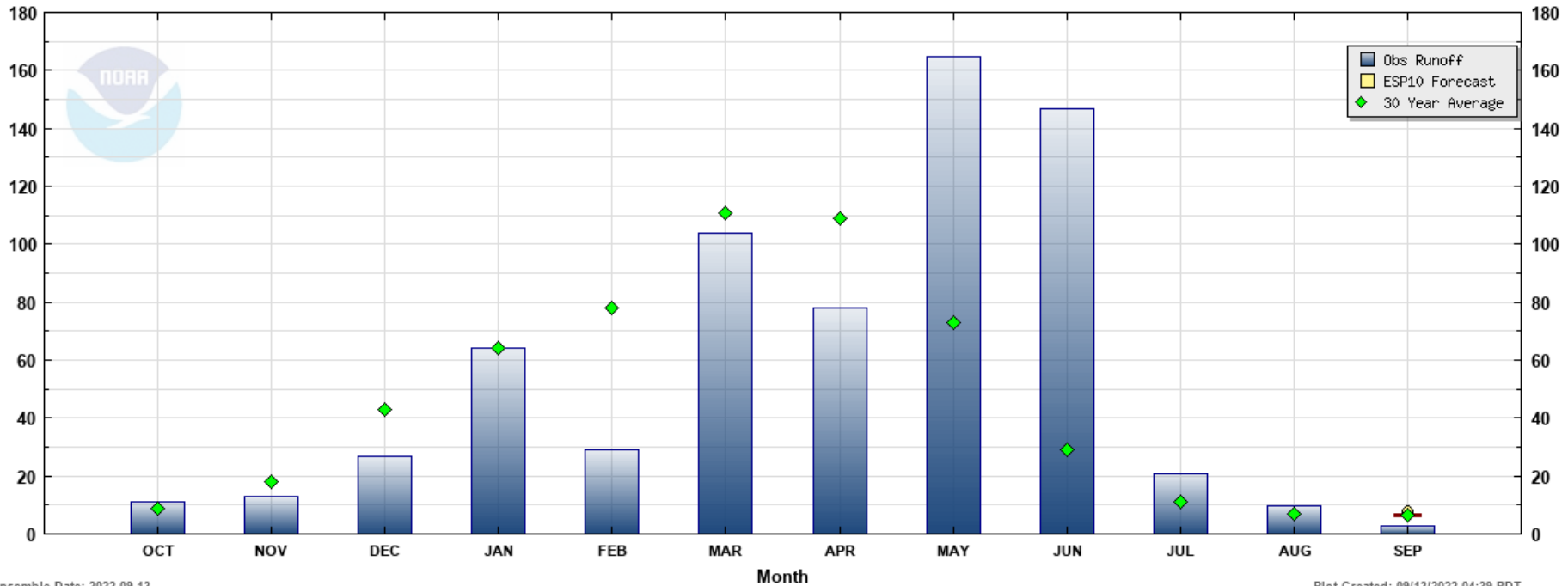
Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(RYG03) ROGUE - AT RAYGOLD





Monthly Natural Volumes Umatilla R near Umatilla

Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(UMA03) UMATILLA - NEAR UMATILLA



Ensemble Date: 2022-09-13

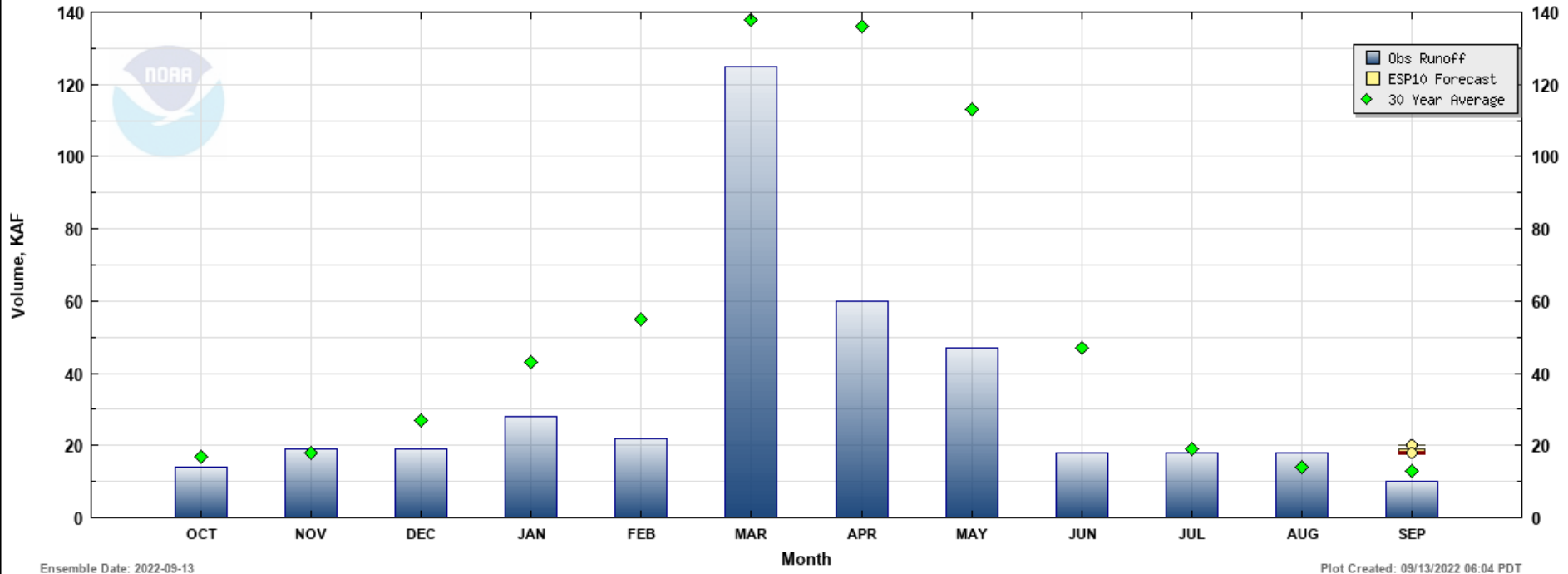
Plot Created: 09/13/2022 04:39 PDT

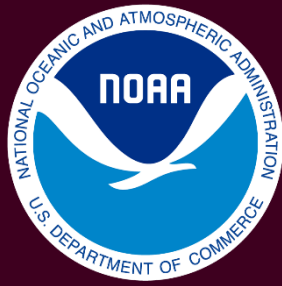
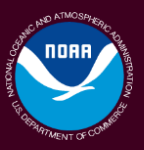


Monthly Natural Volumes

Owyhee R at Owyhee Dam

Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(OWYO3) OWYHEE - OWYHEE DAM





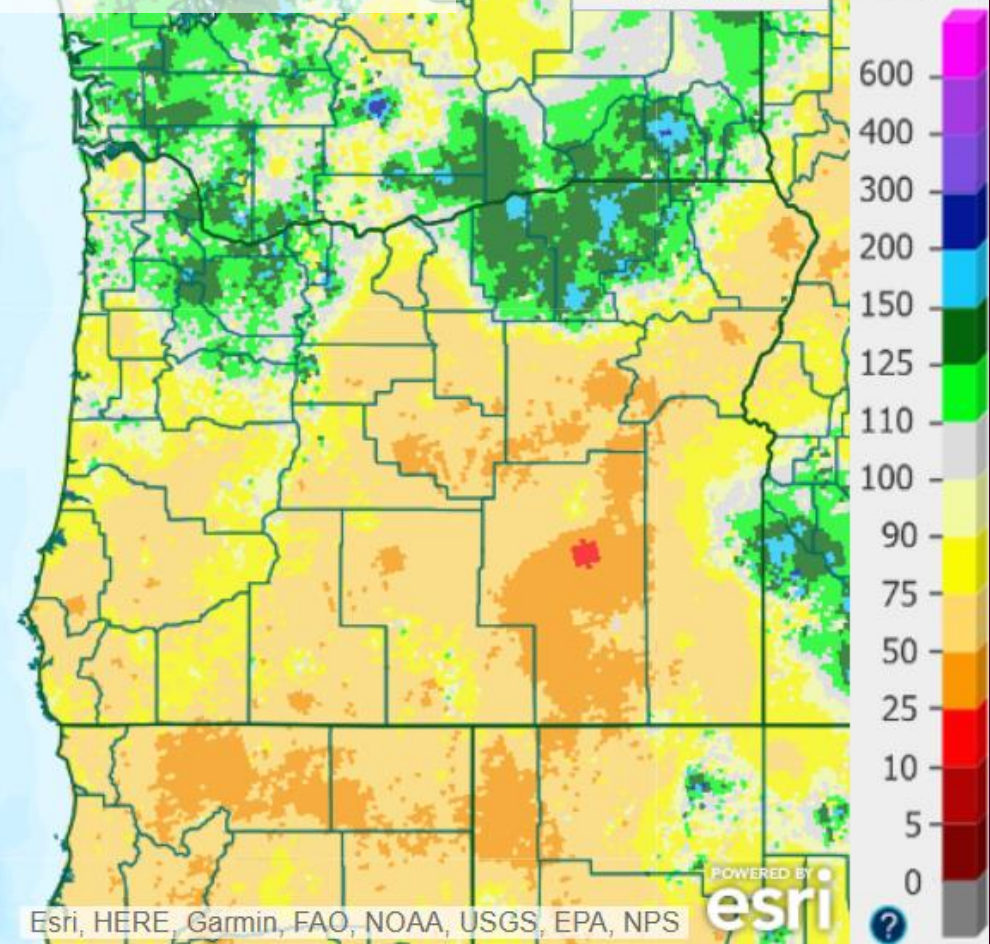
September 2022 Update for Precipitation & Temperatures

NOAA National Weather Service

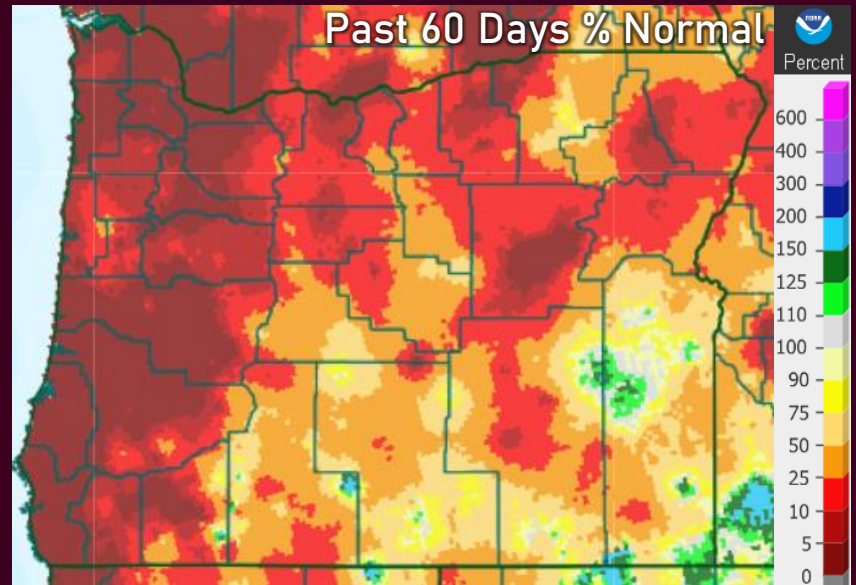


Precipitation

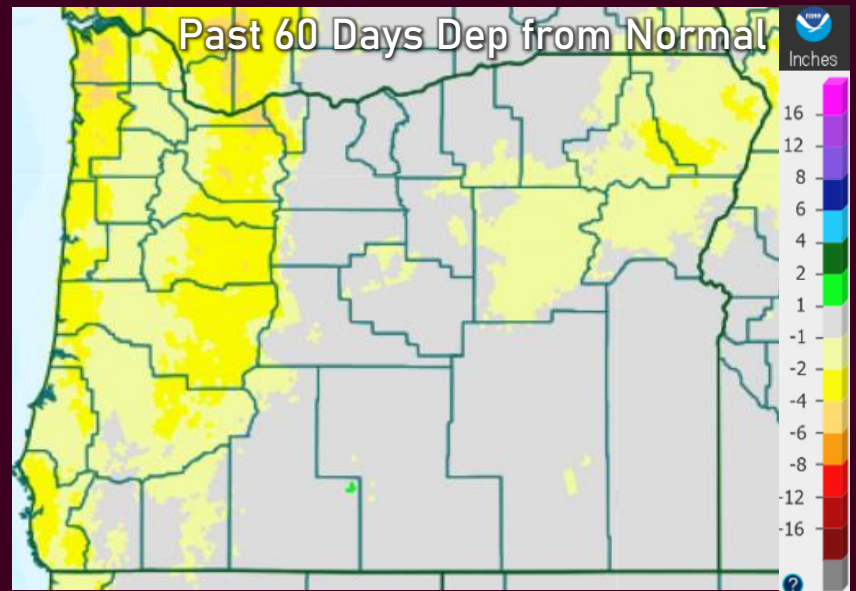
Water Year
Percent of Normal



Past 60 Days % Normal



Past 60 Days Dep from Normal



Precipitation Data as of September 13, 2022

water.weather.gov/precip/index.php

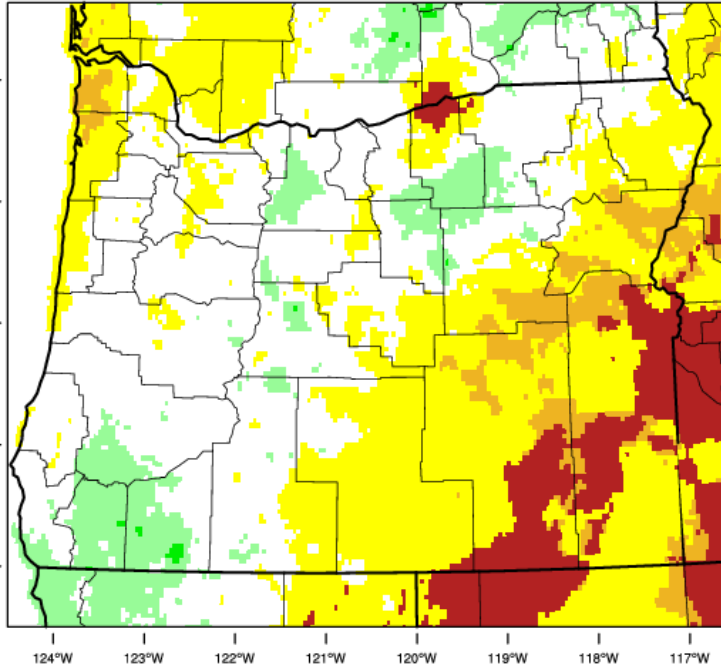


Precipitation - Percentile / Ranking

July

Oregon - Precipitation

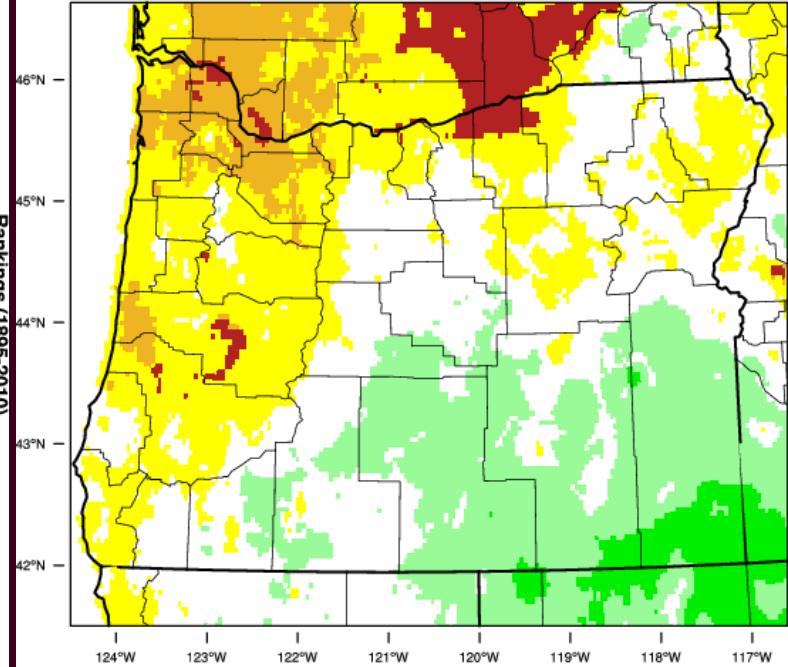
July 2022 Percentile



August

Oregon - Precipitation

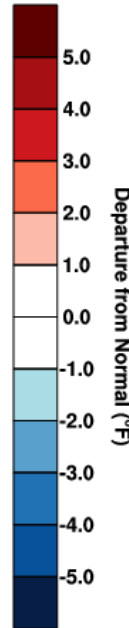
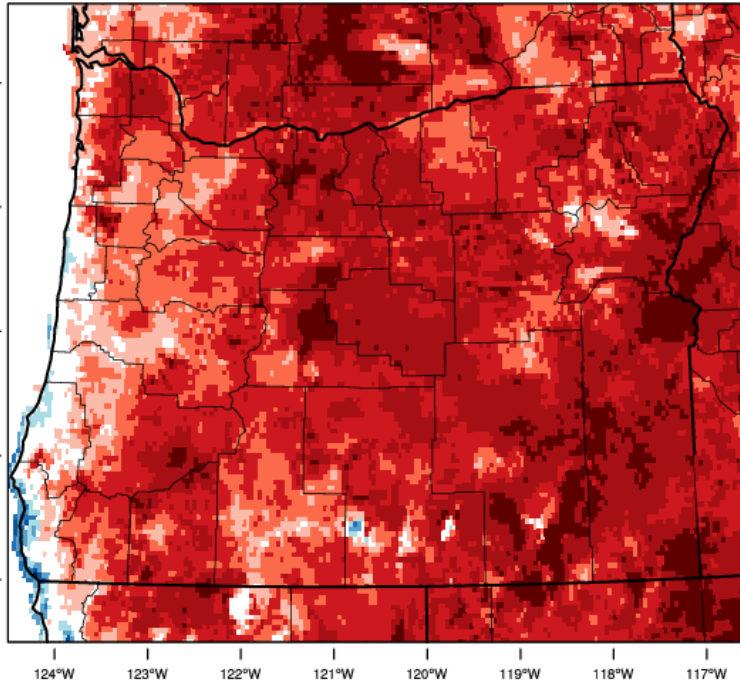
August 2022 Percentile



Recent Temperatures

July

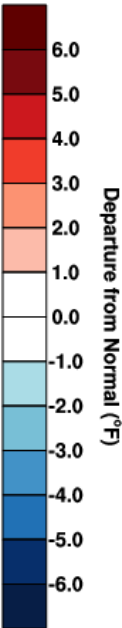
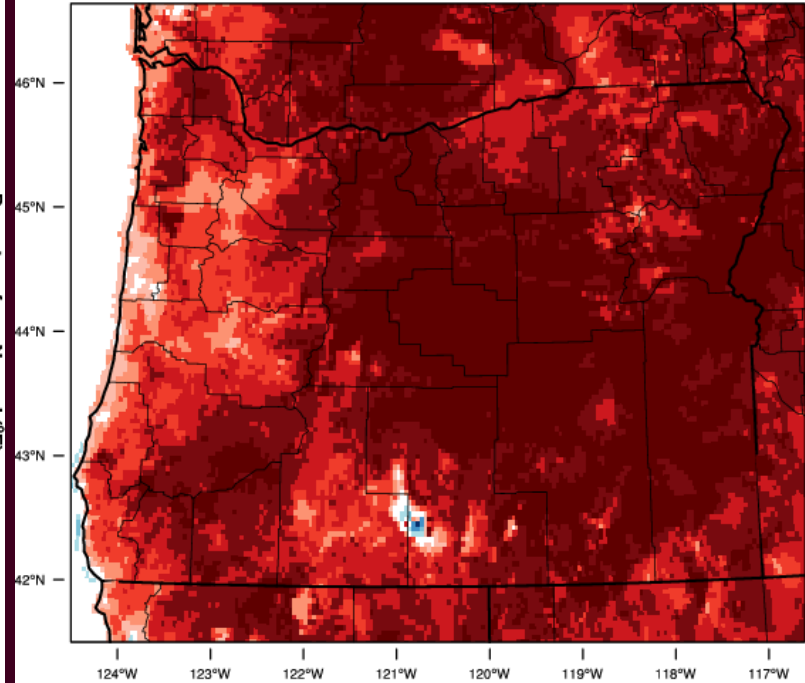
Oregon - Mean Temperature
July 2022 Departure from 1981-2010 Normal



WestWide Drought Tracker, U Idaho WRCC Data Source: PRISM (Prelim), created 16 AUG 2022

August

Oregon - Mean Temperature
August 2022 Departure from 1981-2010 Normal



WestWide Drought Tracker, U Idaho WRCC Data Source: PRISM (Prelim), created 11 SEP 2022



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WARMEST MONTH ON RECORD

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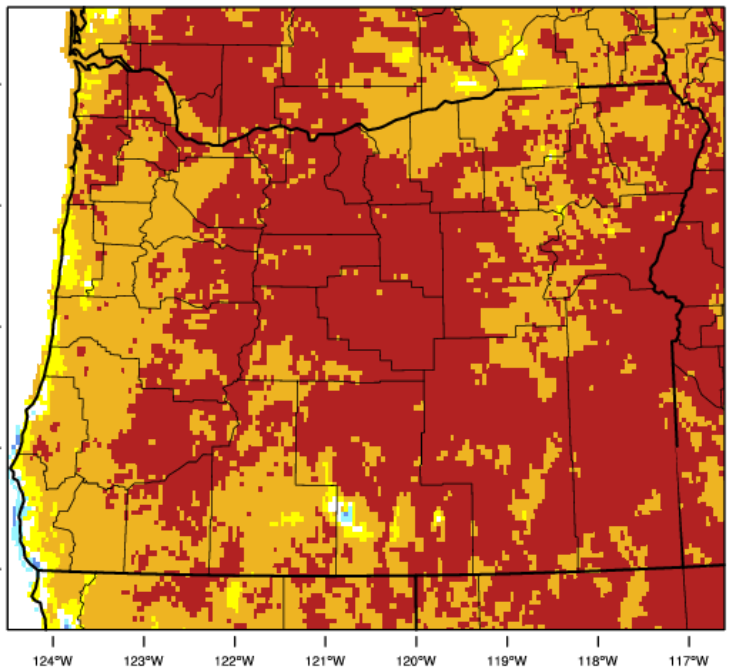
NWS Portland

July + August Percentiles

Temperatures

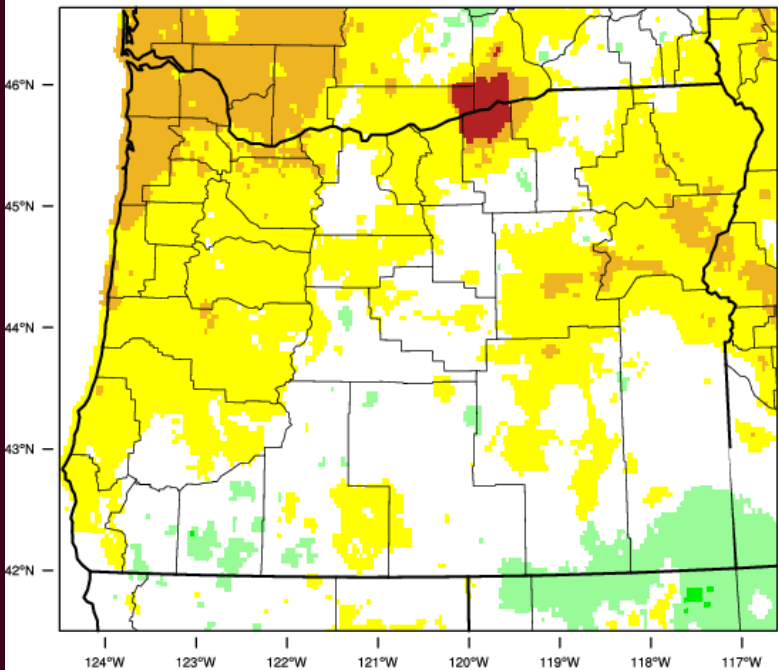
Precipitation

Oregon - Mean Temperature
July-August 2022 Percentile



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 SEP 2022

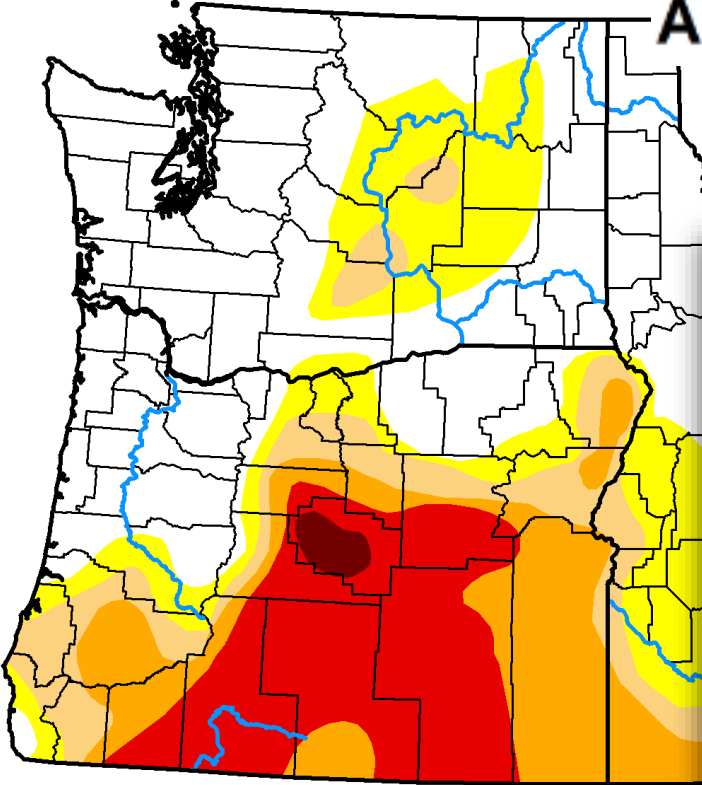
Oregon - Precipitation
July-August 2022 Percentile



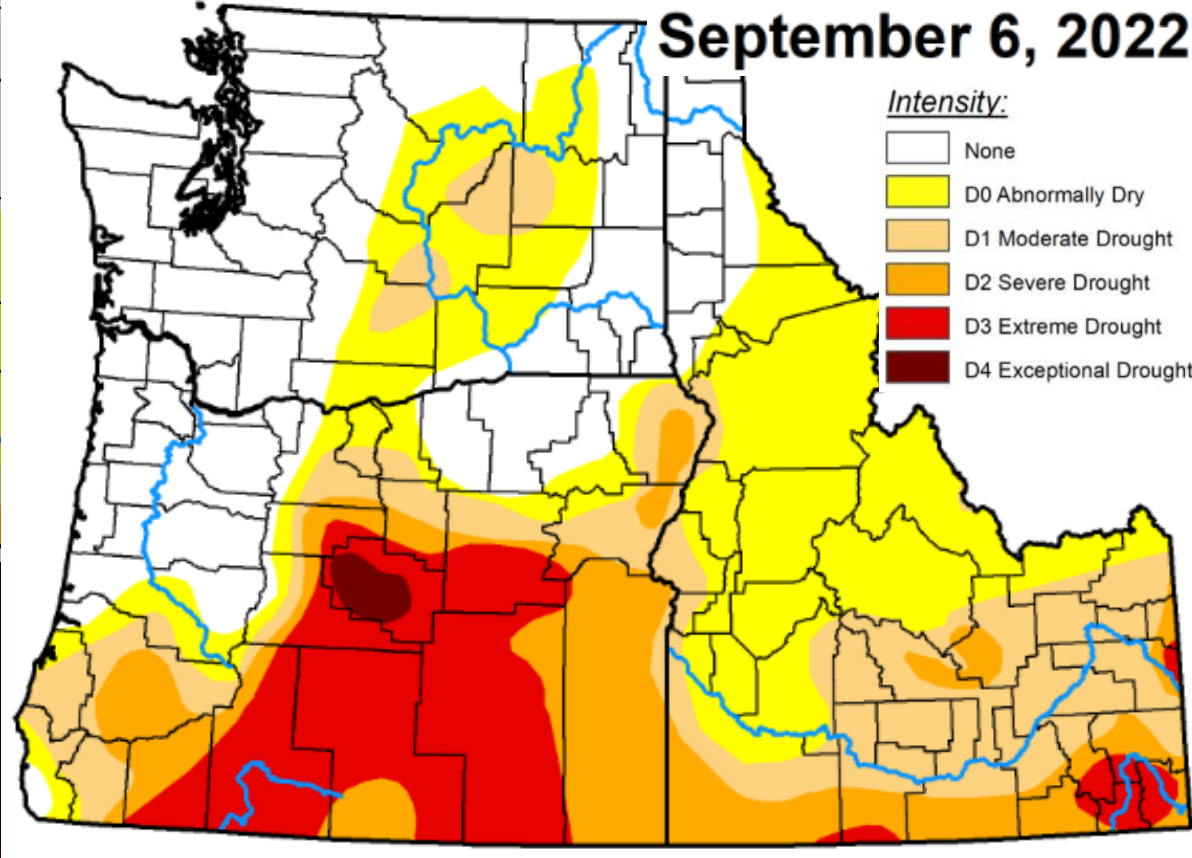
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 SEP 2022

Drought Monitor

August 9, 2022



September 6, 2022



Intensity:

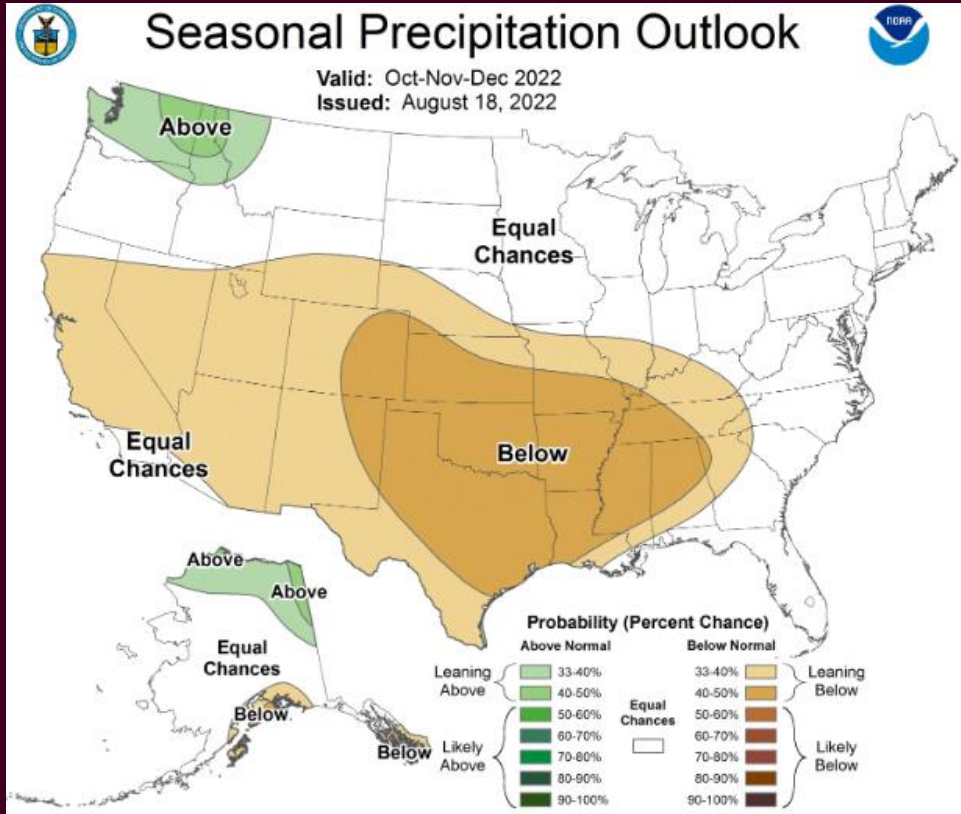
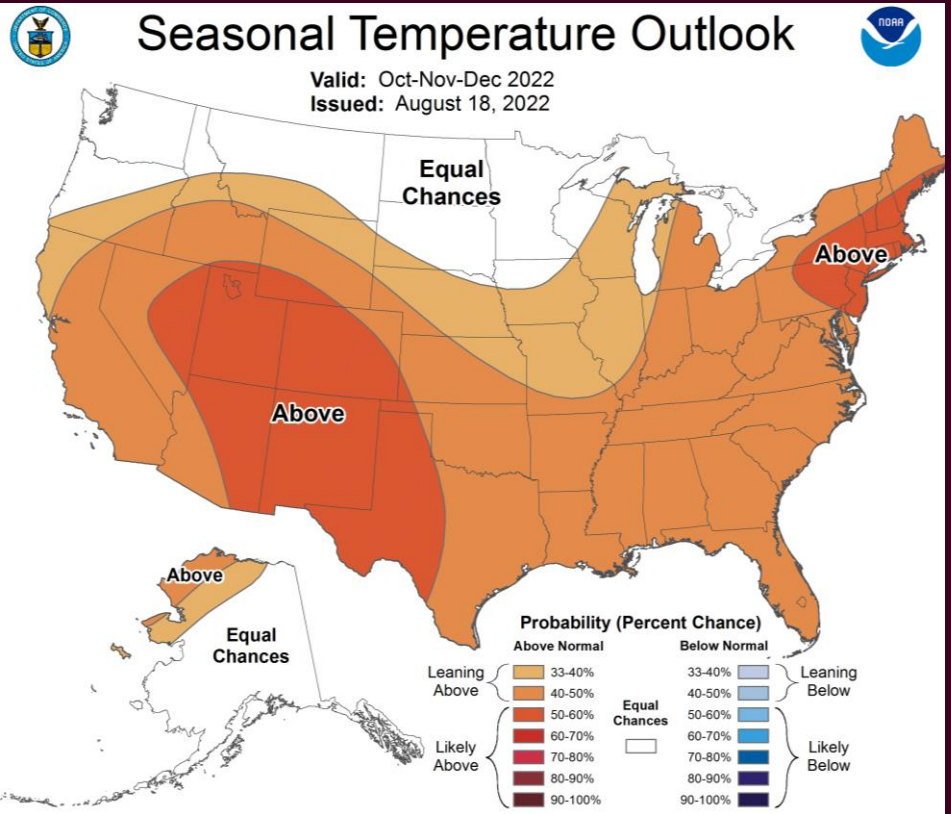
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

<https://droughtmonitor.unl.edu>



Climate Prediction Center Outlook

October–November–December 2022



www.cpc.ncep.noaa.gov

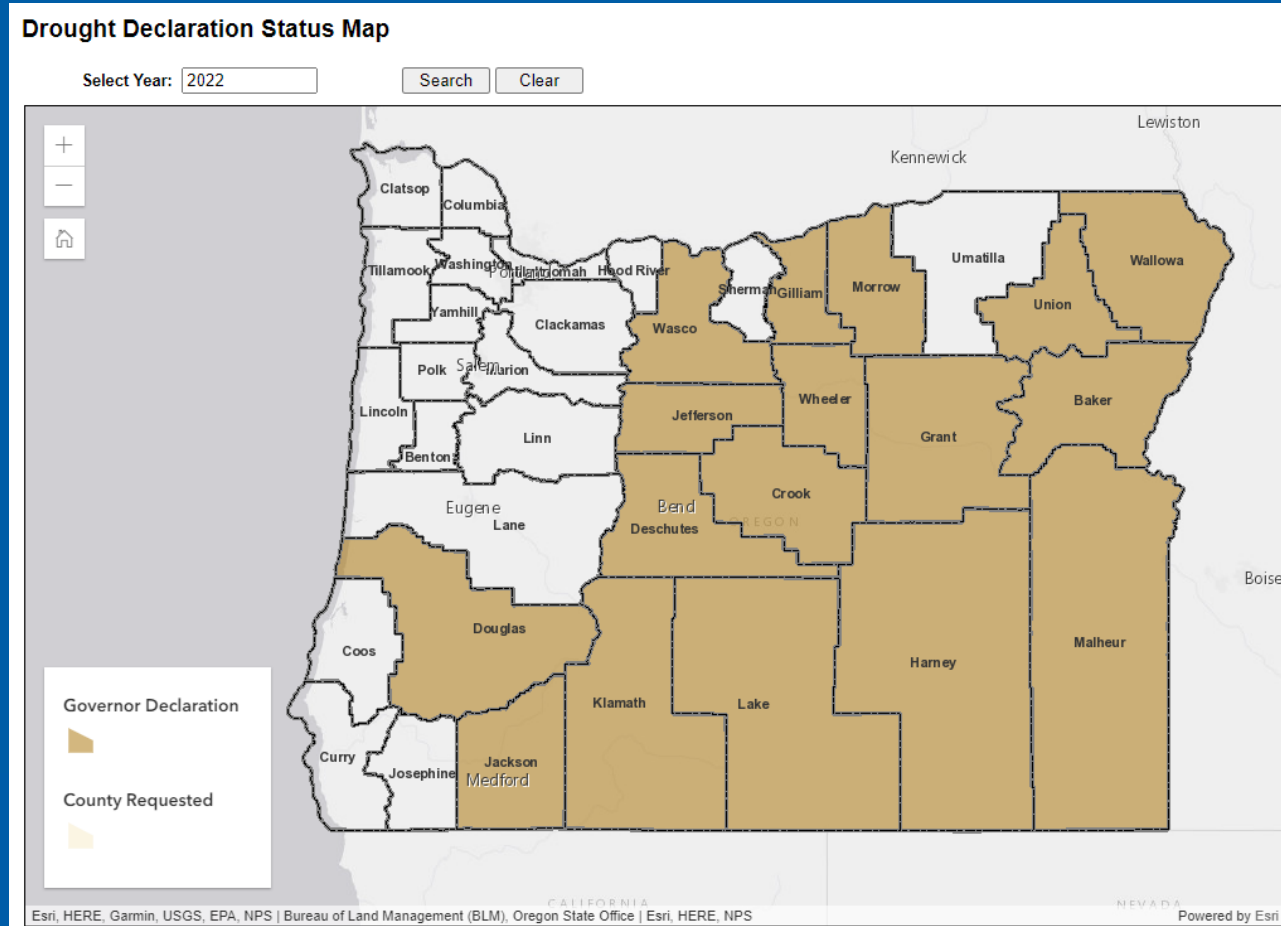


Water Supply Availability Committee
Oregon Water Resources Department
Ryan Andrews
September 14th, 2022

Drought Declarations



- 17 counties with ORS 536 declarations
- 29 counties with USDA crop disaster designations due to drought



August % of Average Streamflow - WY 2022

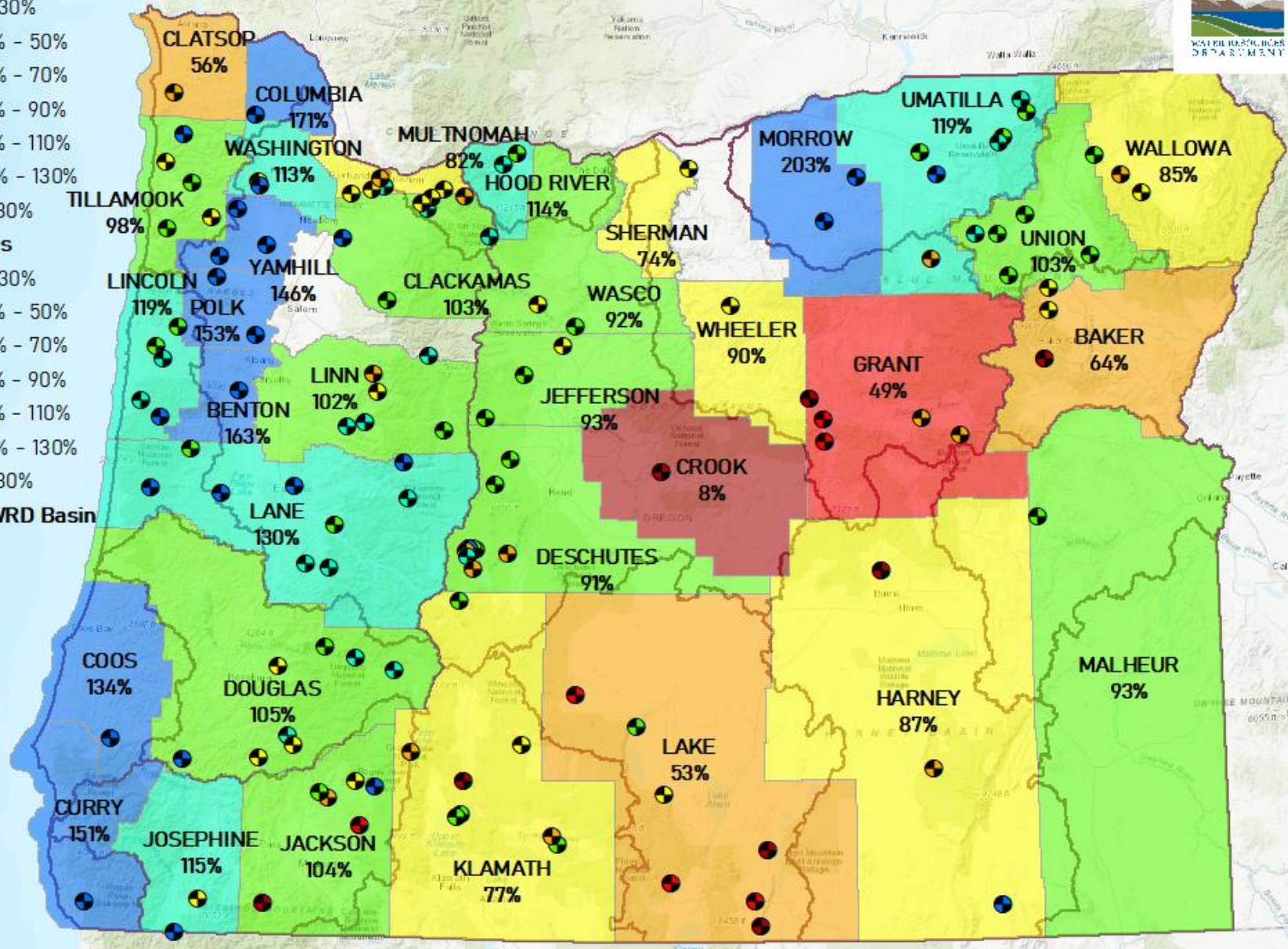


Stream Gage

- <= 30%
- 31% - 50%
- 51% - 70%
- 71% - 90%
- 91% - 110%
- 111% - 130%
- > 130%

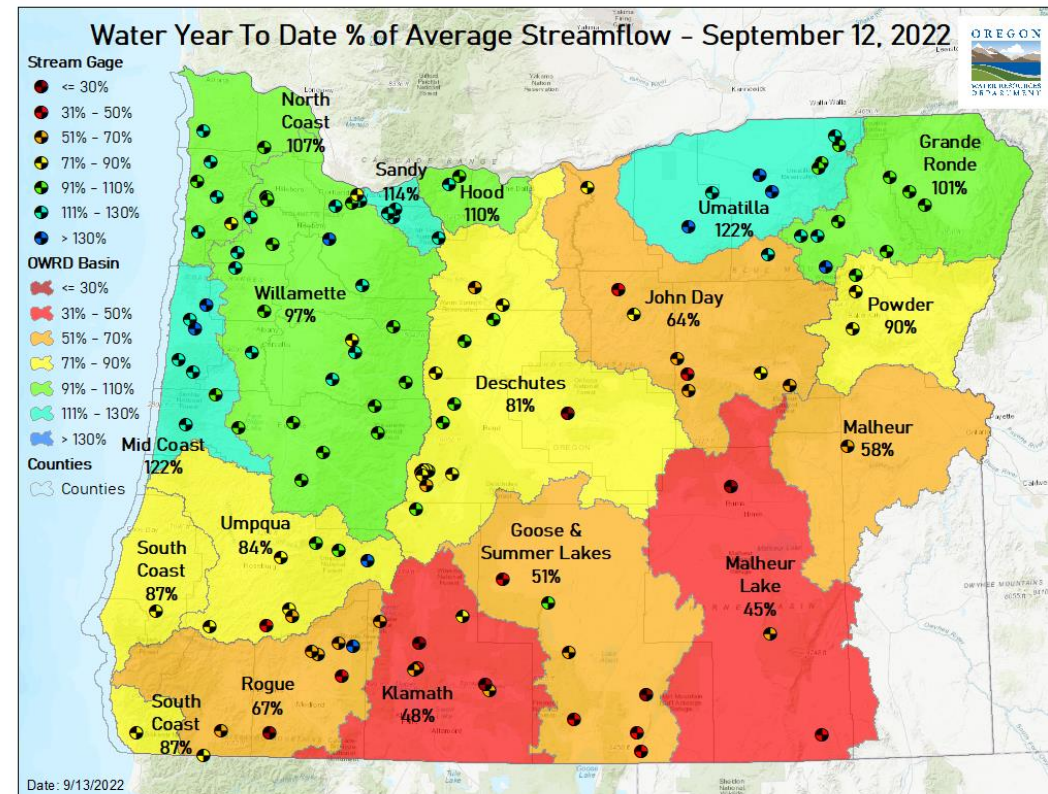
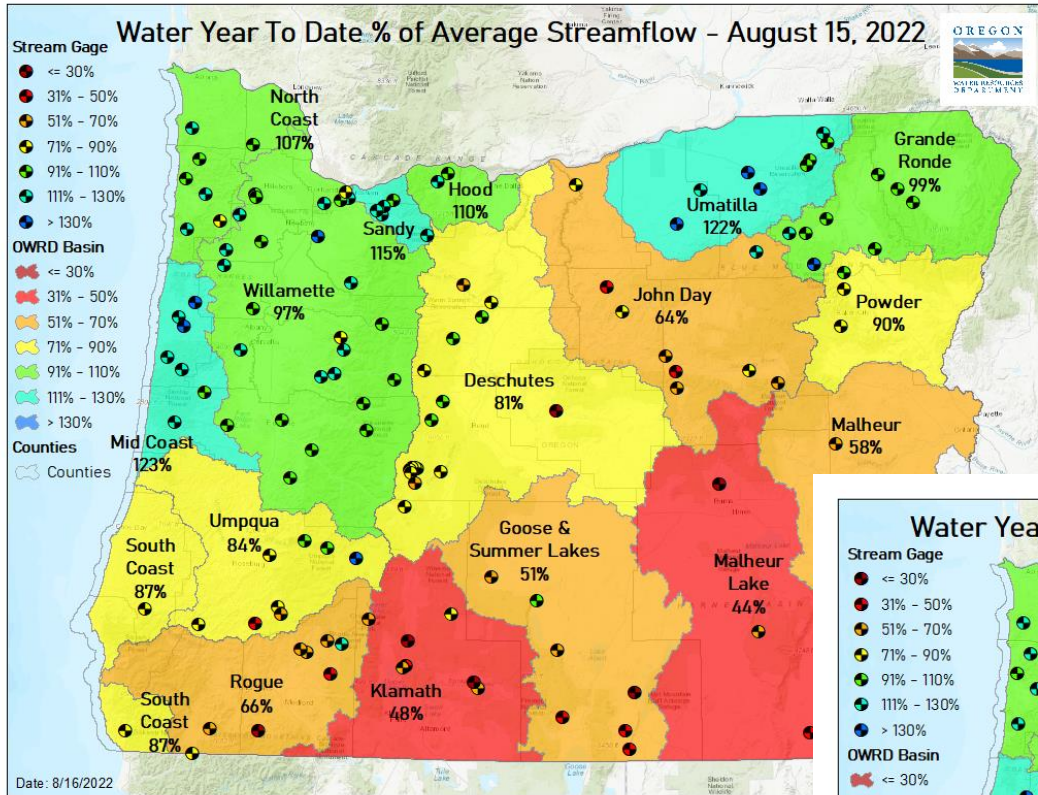
Counties

- <= 30%
- 31% - 50%
- 51% - 70%
- 71% - 90%
- 91% - 110%
- 111% - 130%
- > 130%
- OWRD Basin



Date: 9/6/2022

Water Year to Date

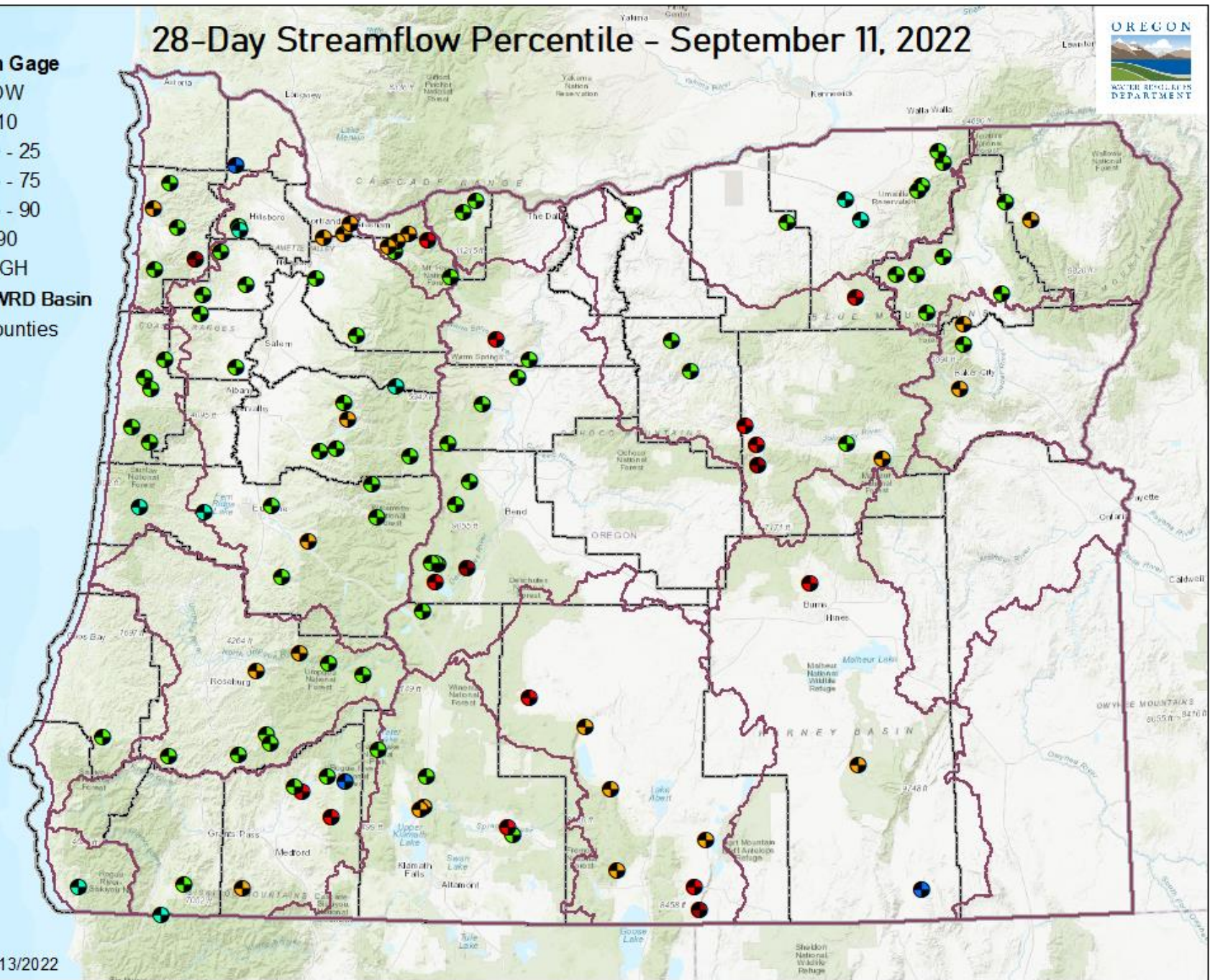


28-Day Streamflow Percentile - September 11, 2022



Stream Gauge

- LOW
- < 10
- 10 - 25
- 25 - 75
- 75 - 90
- > 90
- HIGH
- OWRD Basin
- Counties



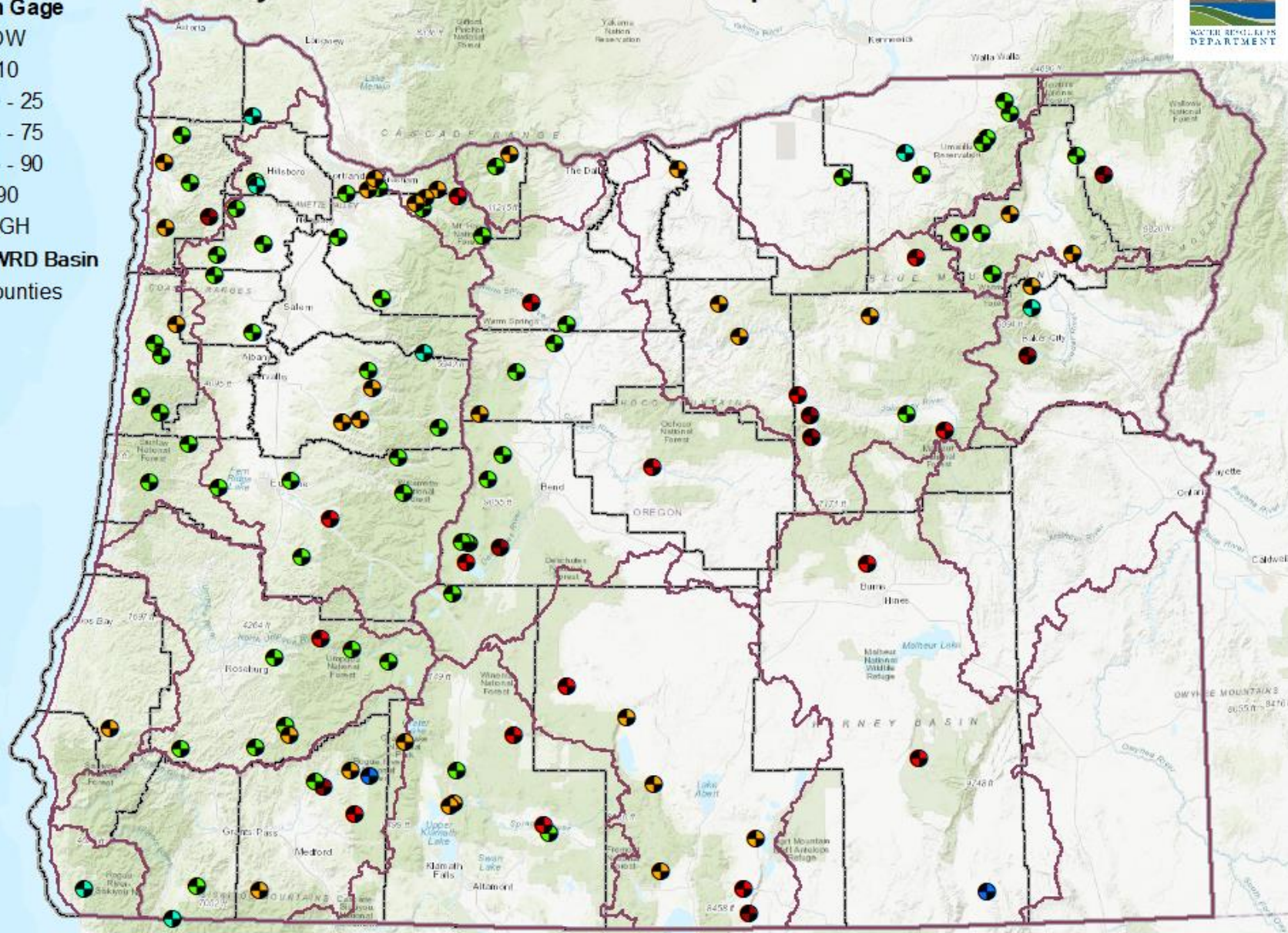
Date: 9/13/2022

7-Day Streamflow Percentile - September 11, 2022



Stream Gage

- LOW
- < 10
- 10 - 25
- 25 - 75
- 75 - 90
- > 90
- HIGH
- OWRD Basin
- Counties



Date: 9/13/2022

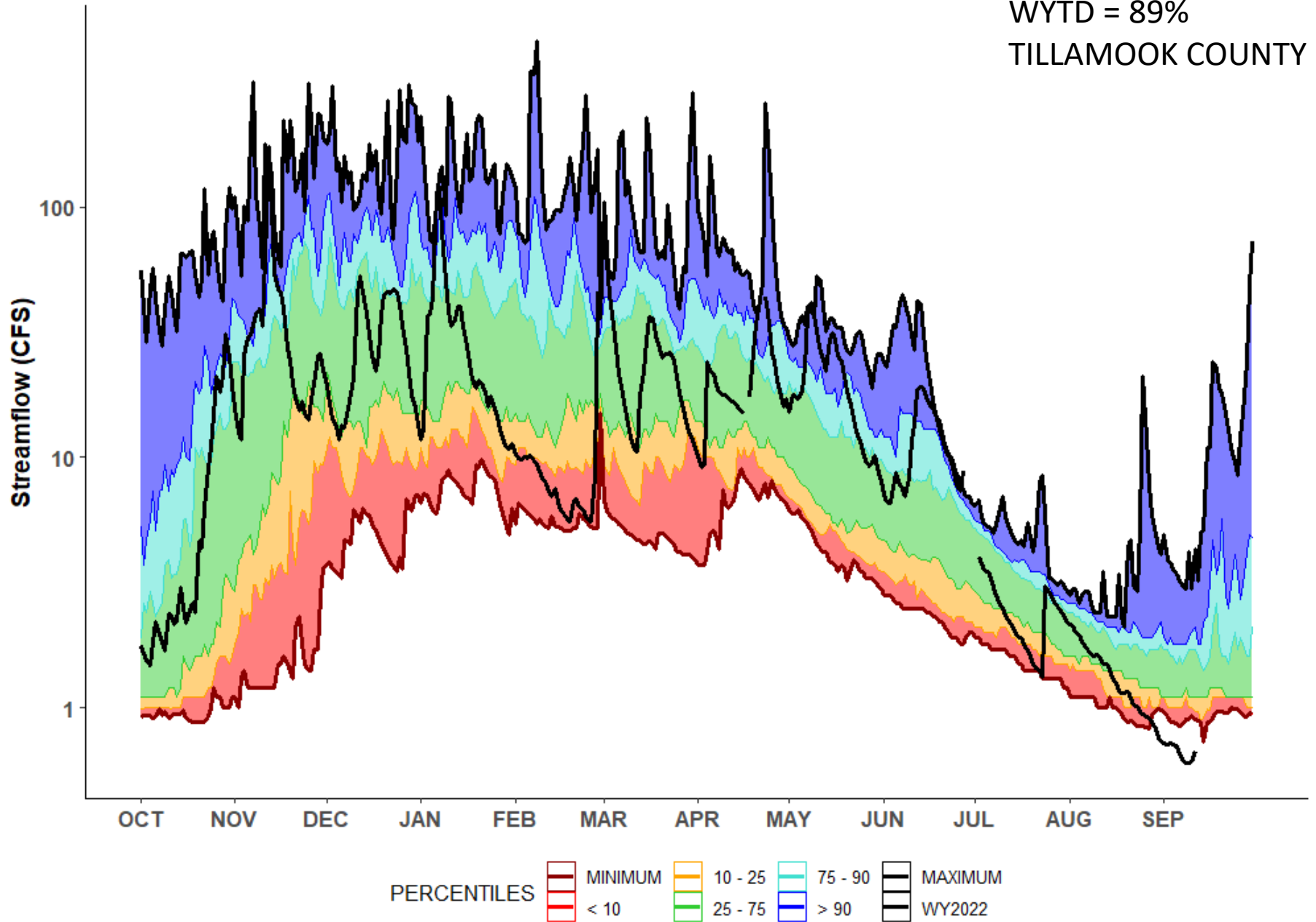
14303200 - TUCCA CR NR BLAINE, OR

NORTH COAST BASIN

POR: 1991-2020

WYTD = 89%

TILLAMOOK COUNTY



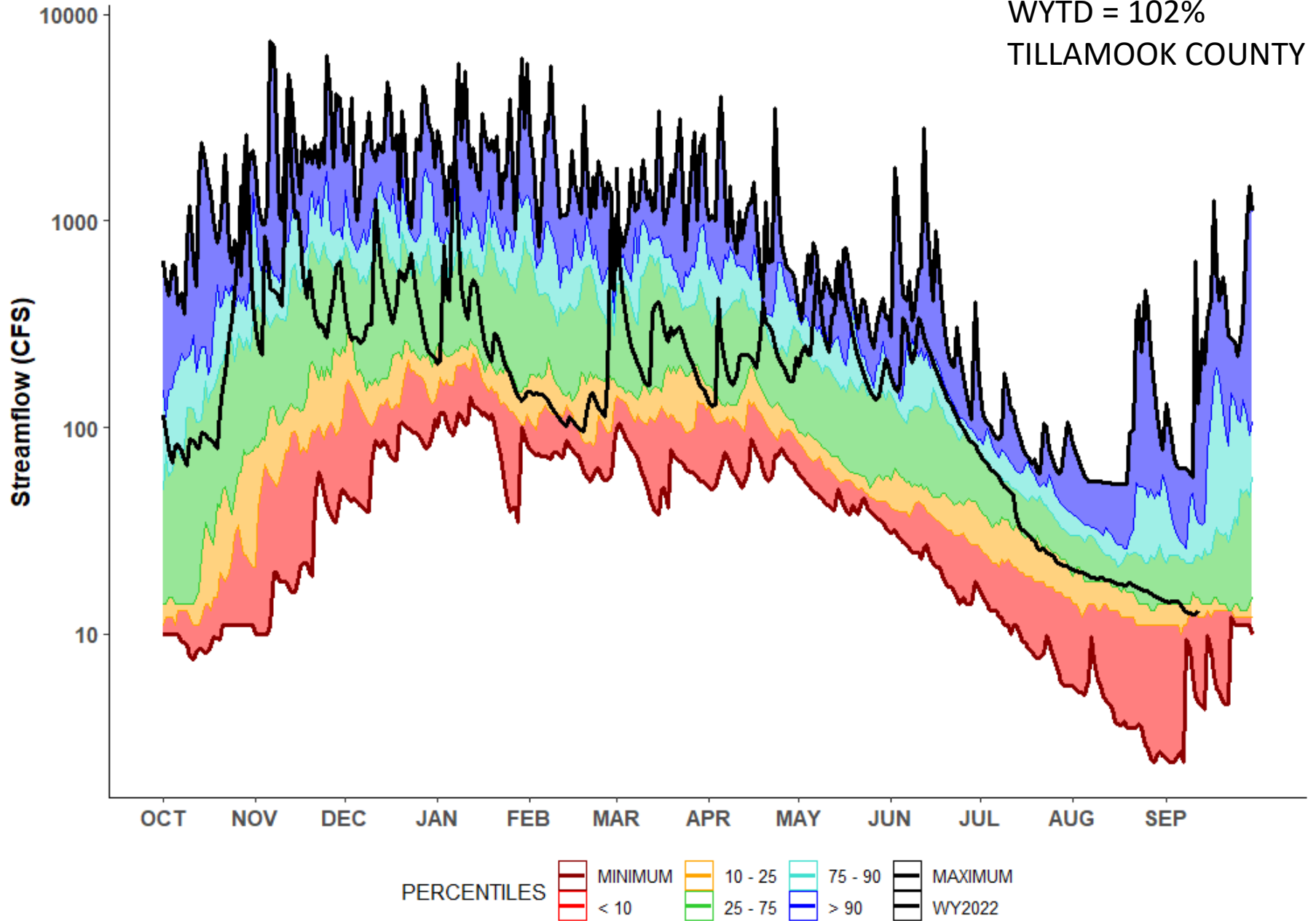
14301300 - MIAMI R NR GARIBALDI, OR

NORTH COAST BASIN

POR: 1991-2020

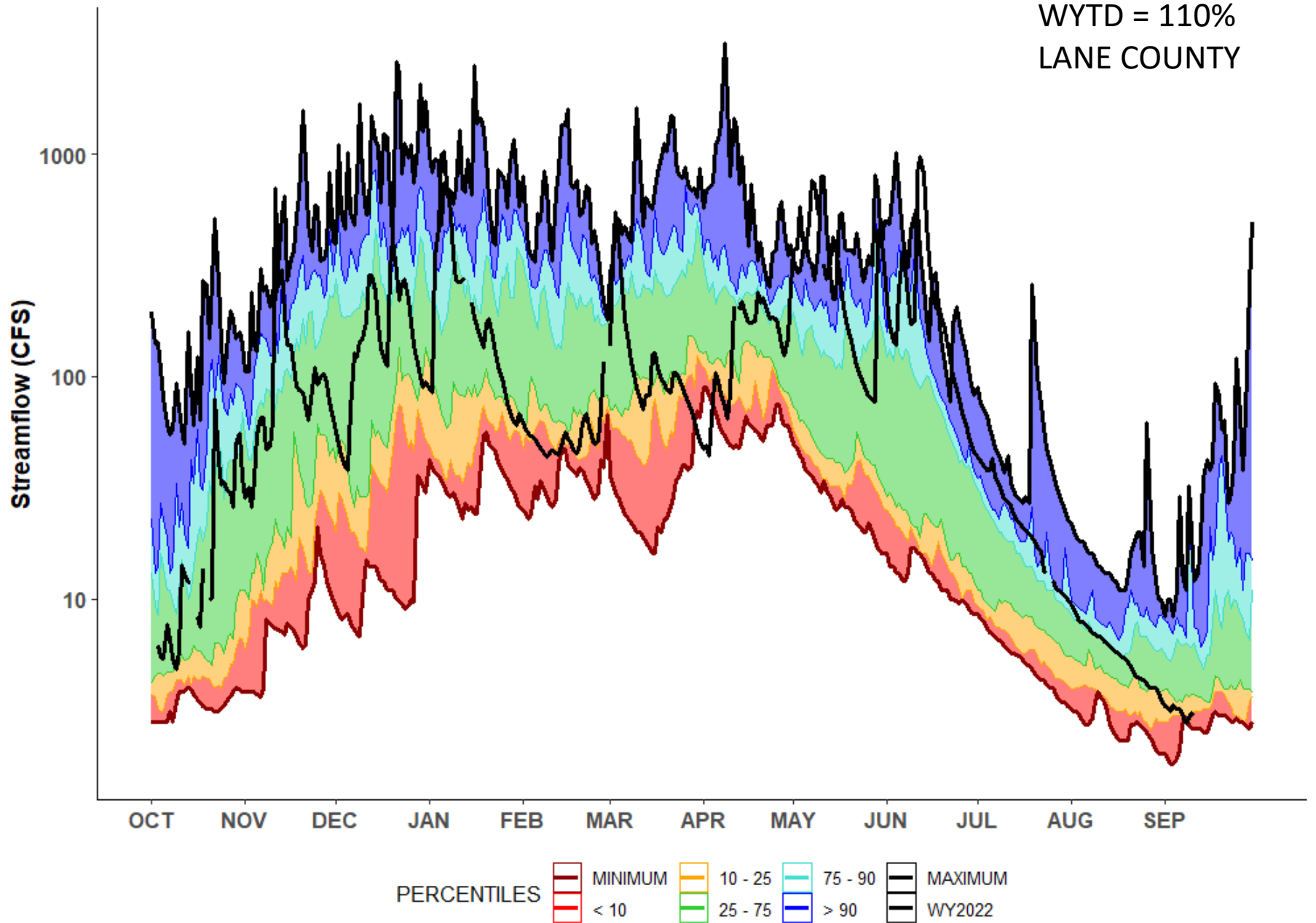
WYTD = 102%

TILLAMOOK COUNTY



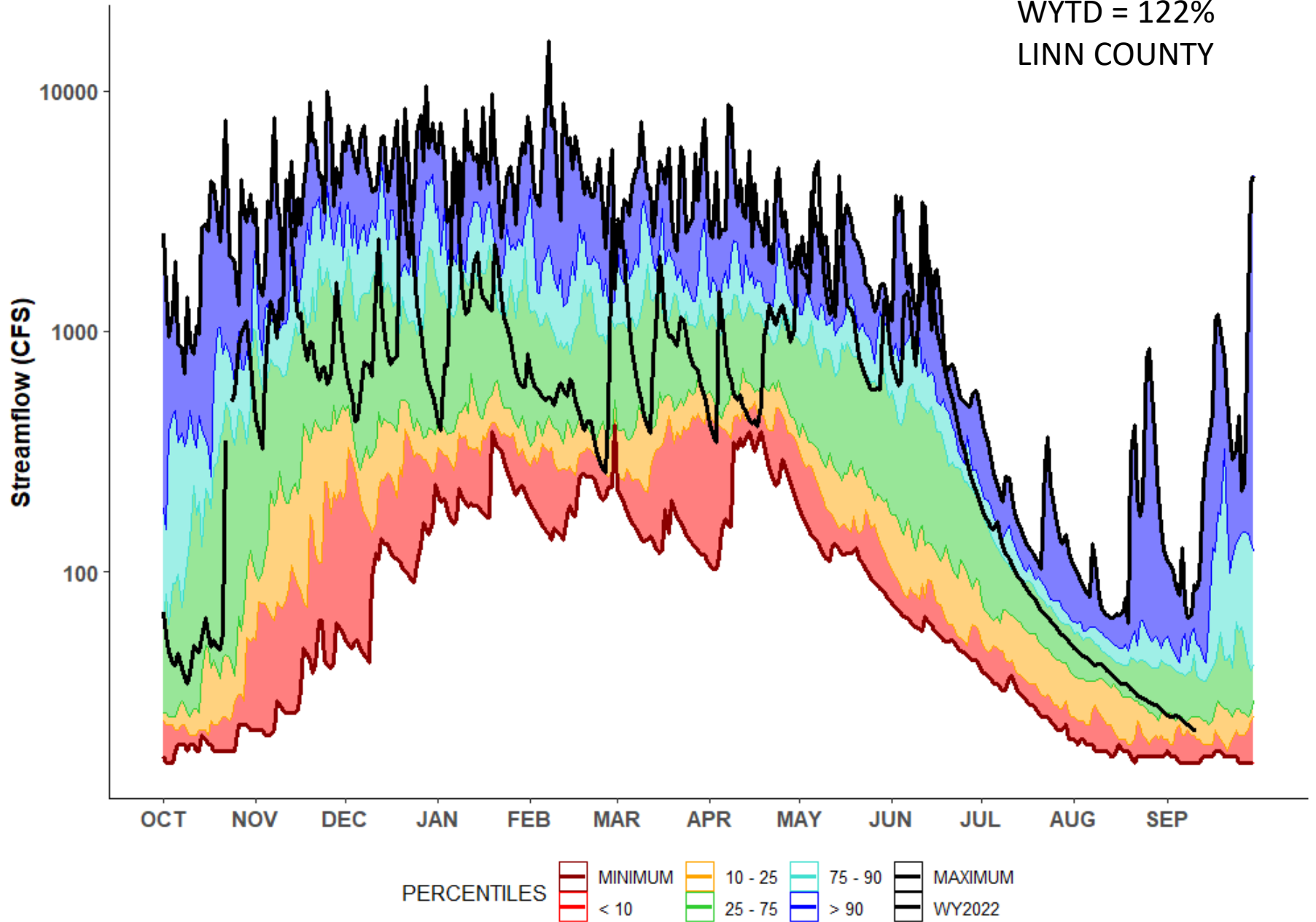
14150800 - WINBERRY CR NR LOWELL, OR
WILLAMETTE BASIN
POR: 1991-2020

WYTD = 110%
LANE COUNTY



14185900 - QUARTZVILLE CR NR CASCADIA, OR
WILLAMETTE BASIN
POR: 1991-2020

WYTD = 122%
LINN COUNTY



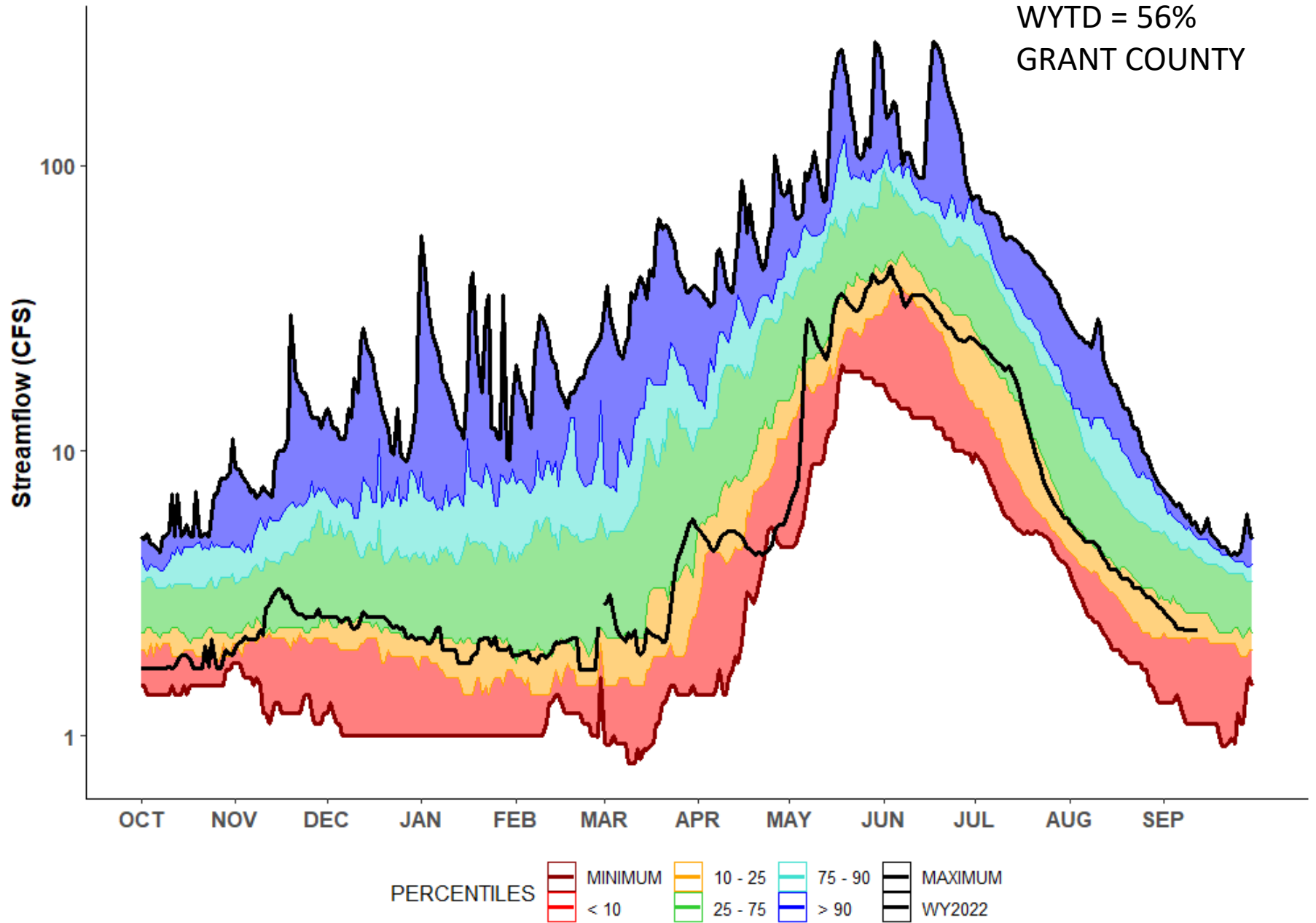
14037500 - STRAWBERRY CR AB SLIDE CR NR PRAIRIE CITY, OR

JOHN DAY BASIN

POR: 1991-2020

WYTD = 56%

GRANT COUNTY



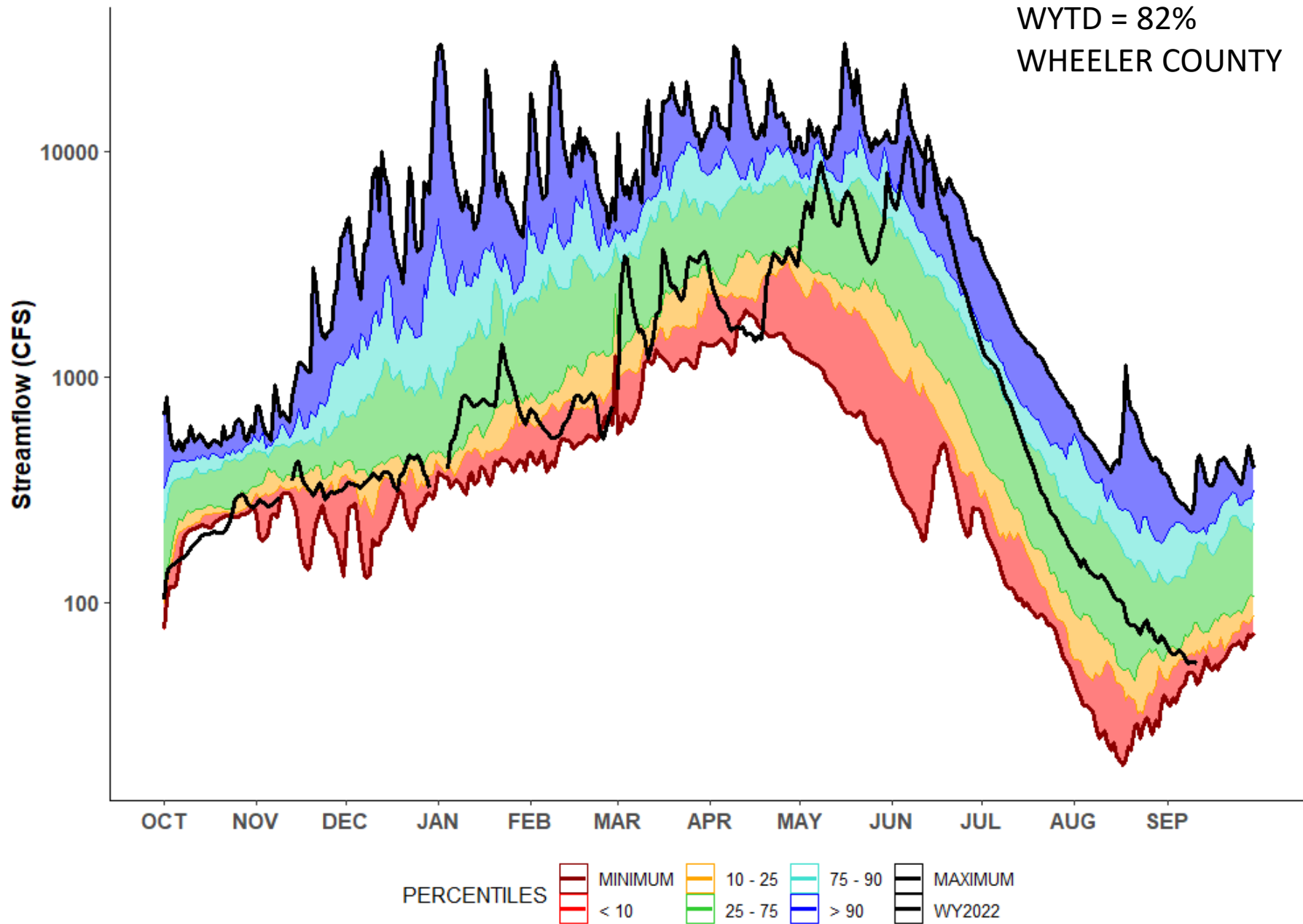
14046500 - JOHN DAY R AT SERVICE CR, OR

JOHN DAY BASIN

POR: 1991-2020

WYTD = 82%

WHEELER COUNTY



Summary



- Streamflows receding in western Oregon
 - Western foothills of Cascades, North Coast, Portland Metro
- Much of central and southern Oregon streams likely to begin next water year well below average, potential record low flows

OREGON



WATER RESOURCES
DEPARTMENT

QUESTIONS?



— BUREAU OF —
RECLAMATION

Reclamation Storage Update

Oregon Water Supply Availability
Committee Meeting

September 14, 2022

Basin Operations Summary

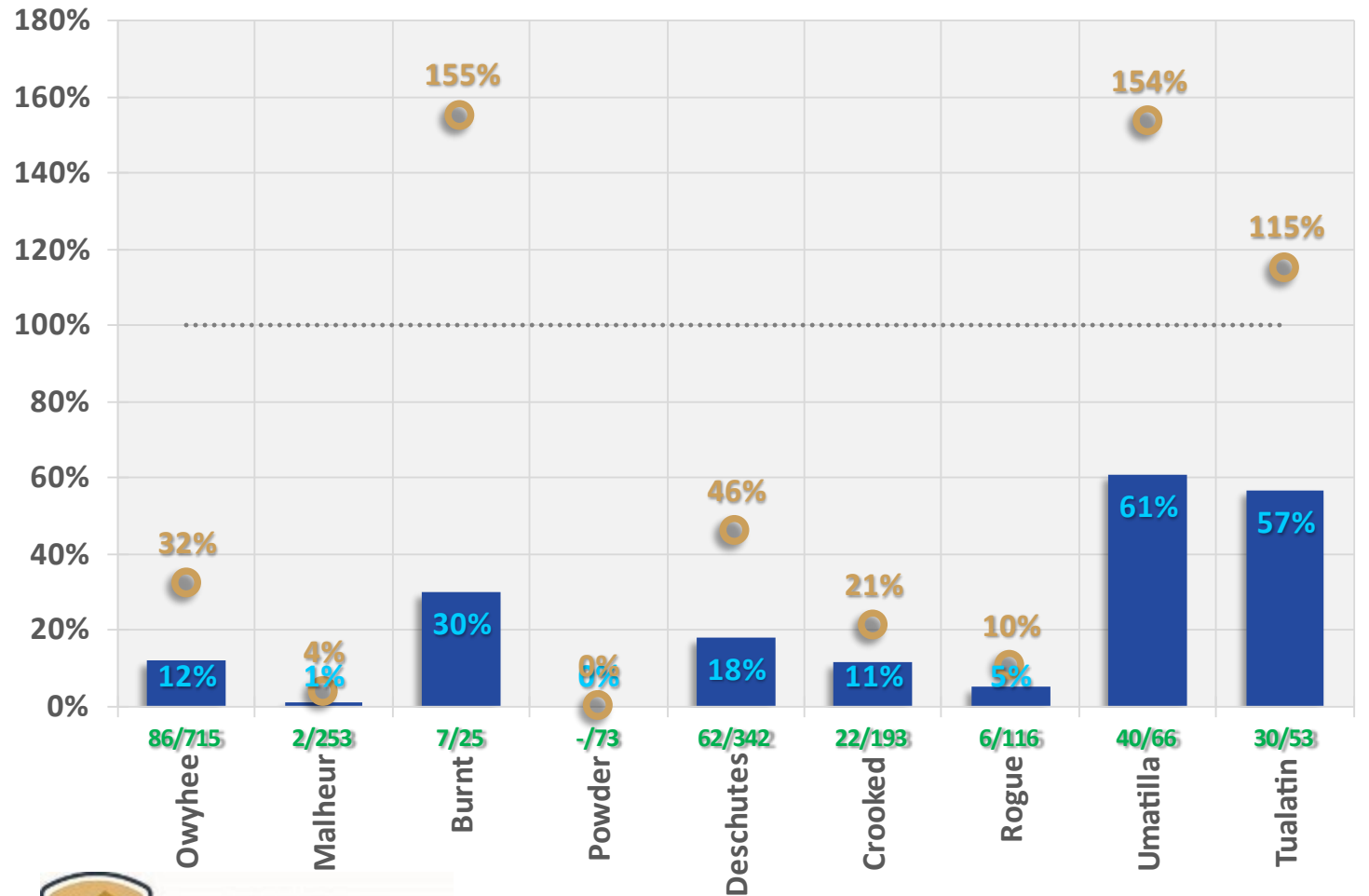
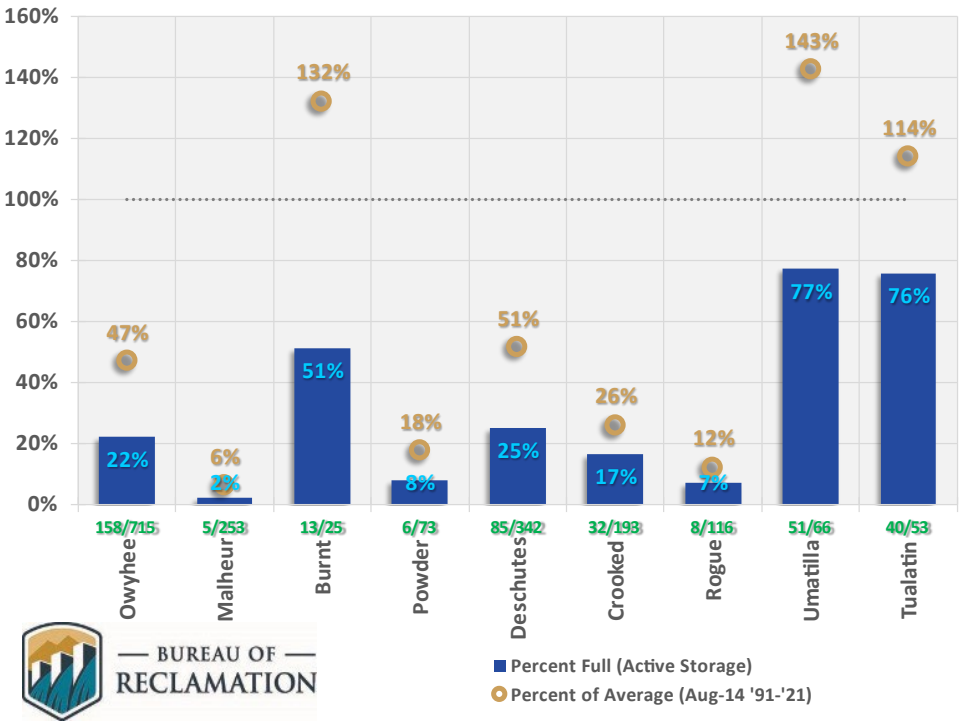
- **Operations Activities:**
 - Irrigation season is nearing an end
 - Storage water supply is exhausted in some basins
- **Water Supply Notes**
 - Anticipate much below normal carryover at the end of the season in the southern, central and southeastern basins (Rogue, Deschutes, Crooked, Malheur, Powder, Owyhee)
 - Anticipate above normal carryover at the end of the season in the northern basins (Unity, McKay, Scoggins)



Storage Conditions

Oregon Reservoir Storage (Sep 12 2022)

Oregon Reservoir Storage (Aug 14 2022)

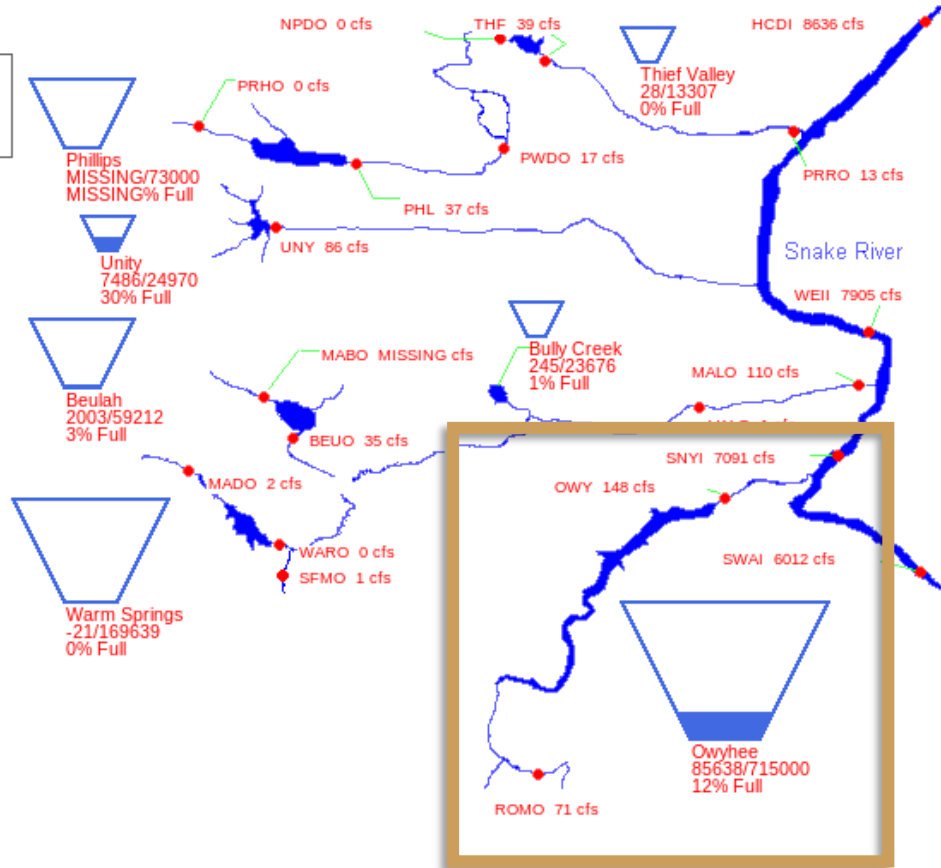
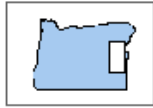


■ Percent Full (Active Storage)
 ■ Current/Full Storage (KAF)

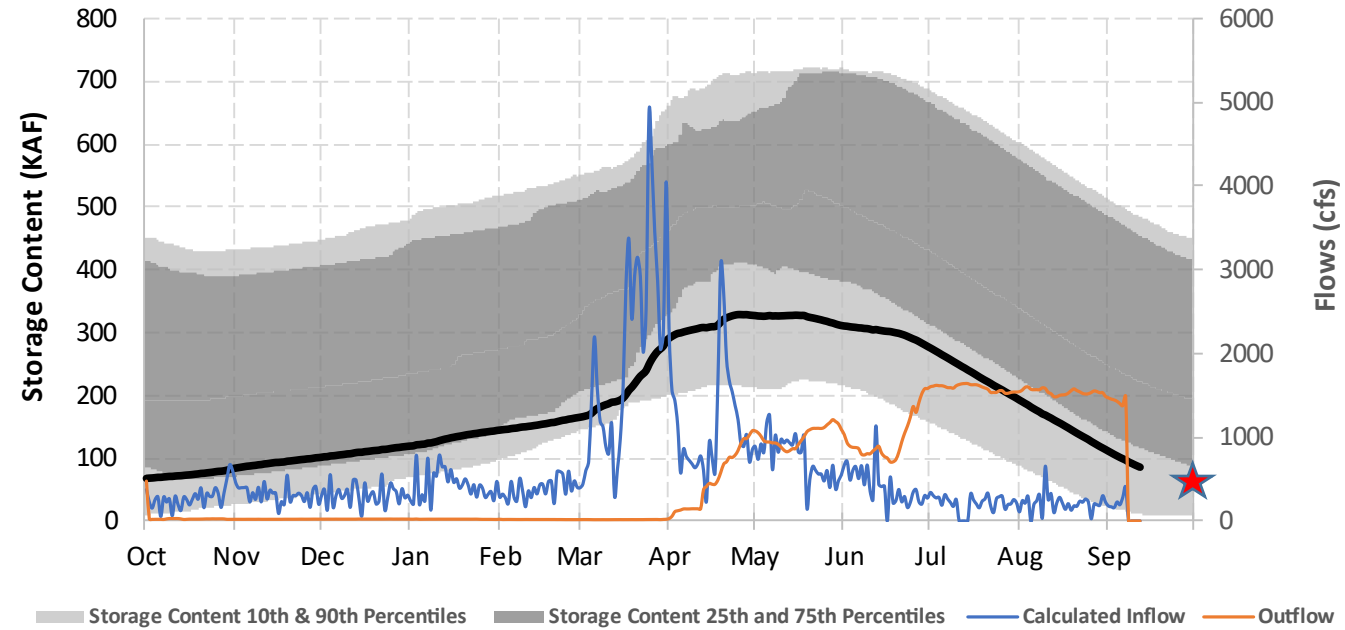
● Percent of Average (Sep-12 '91-'21)

Owyhee River Basin

09/12/2022



Owyhee Dam and Reservoir

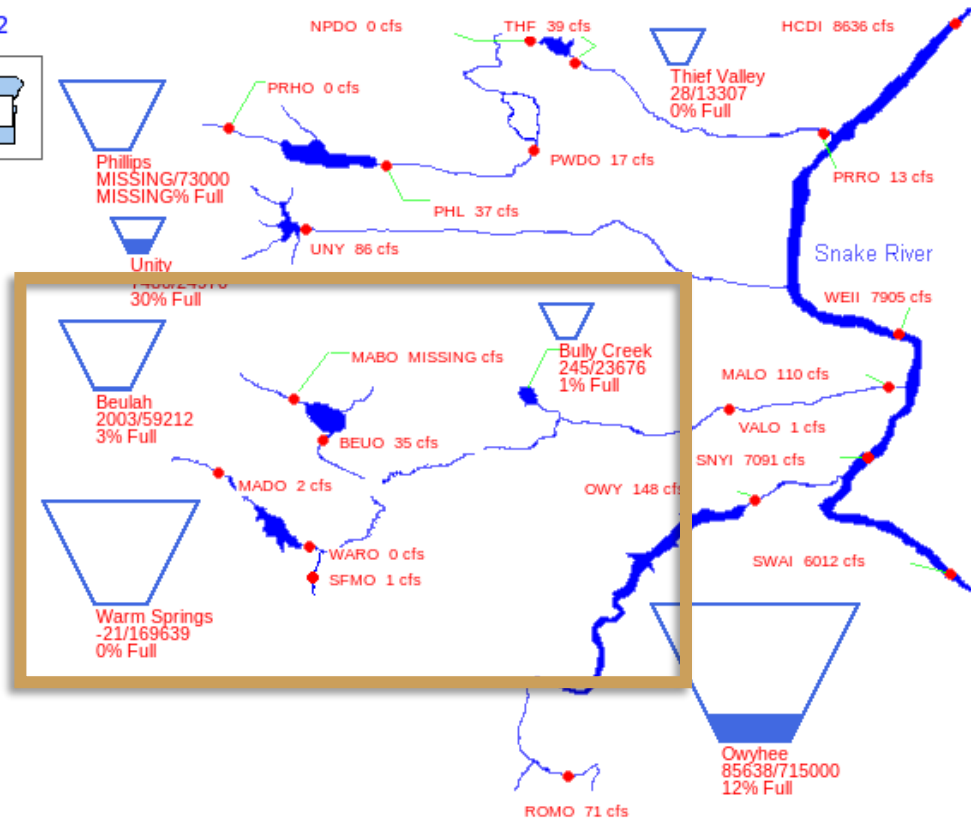
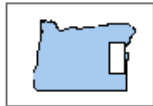


★ WY2021 Storage Content

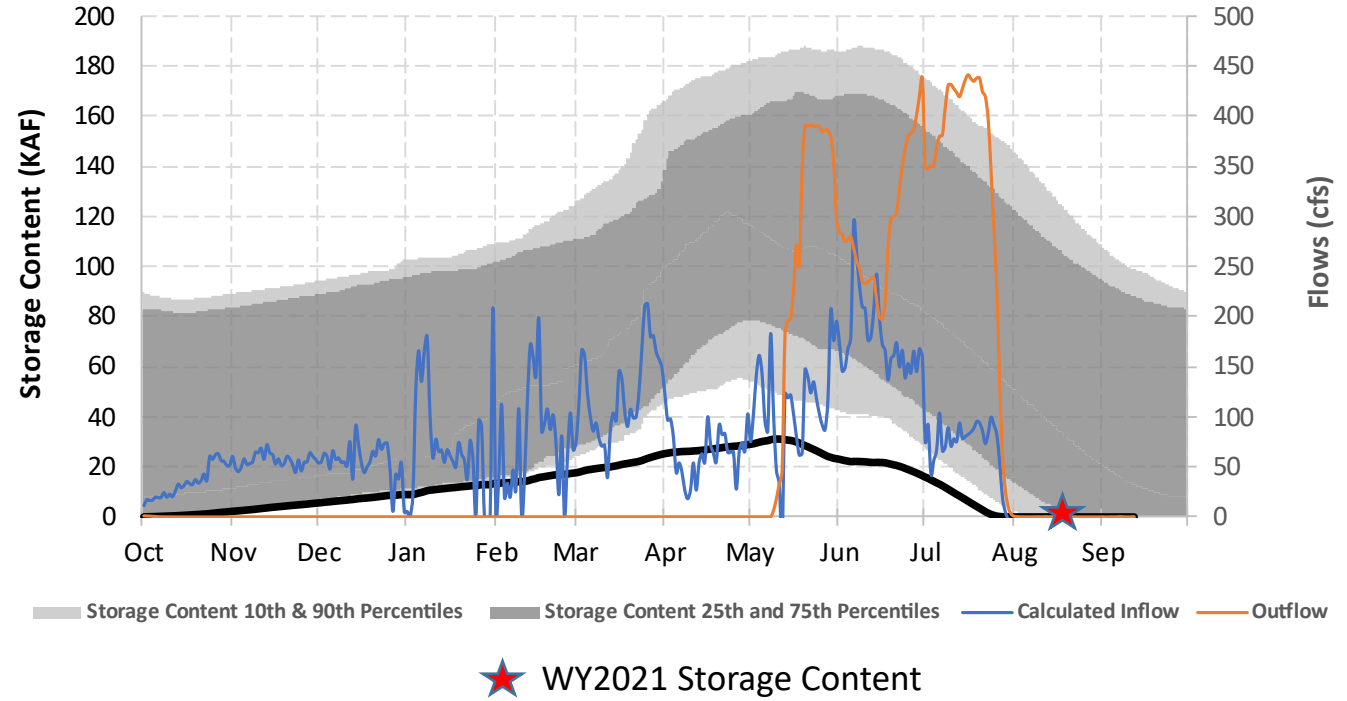


Malheur River Basin

09/12/2022

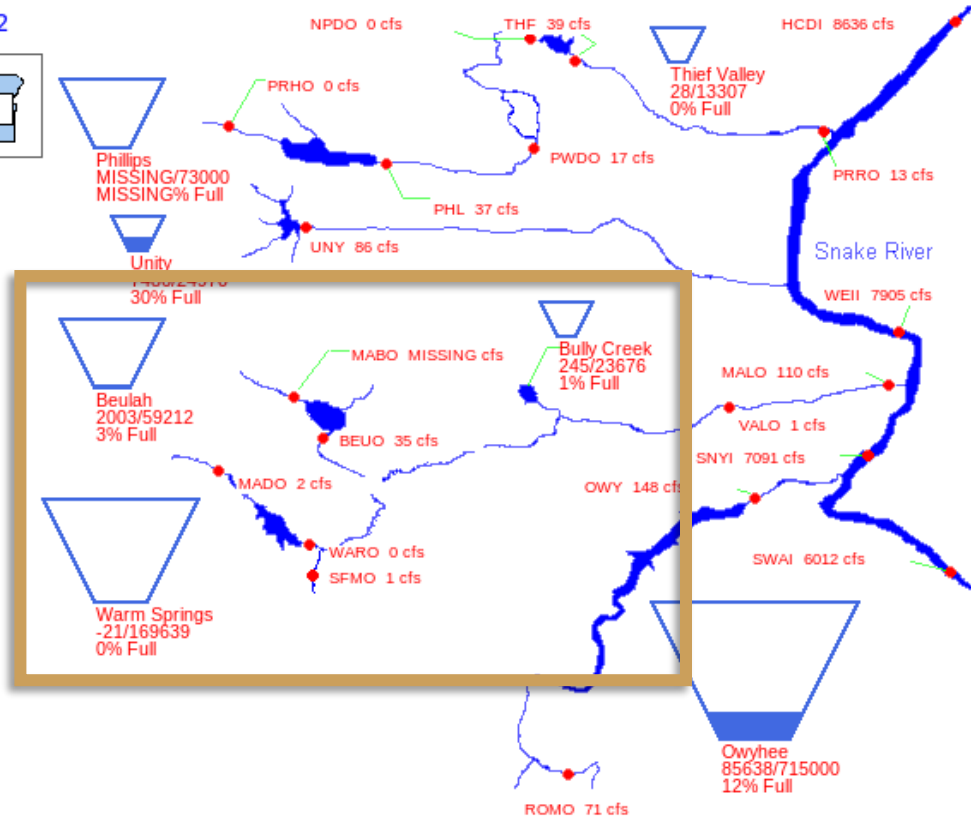
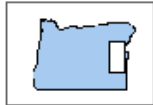


Warm Springs Dam and Reservoir

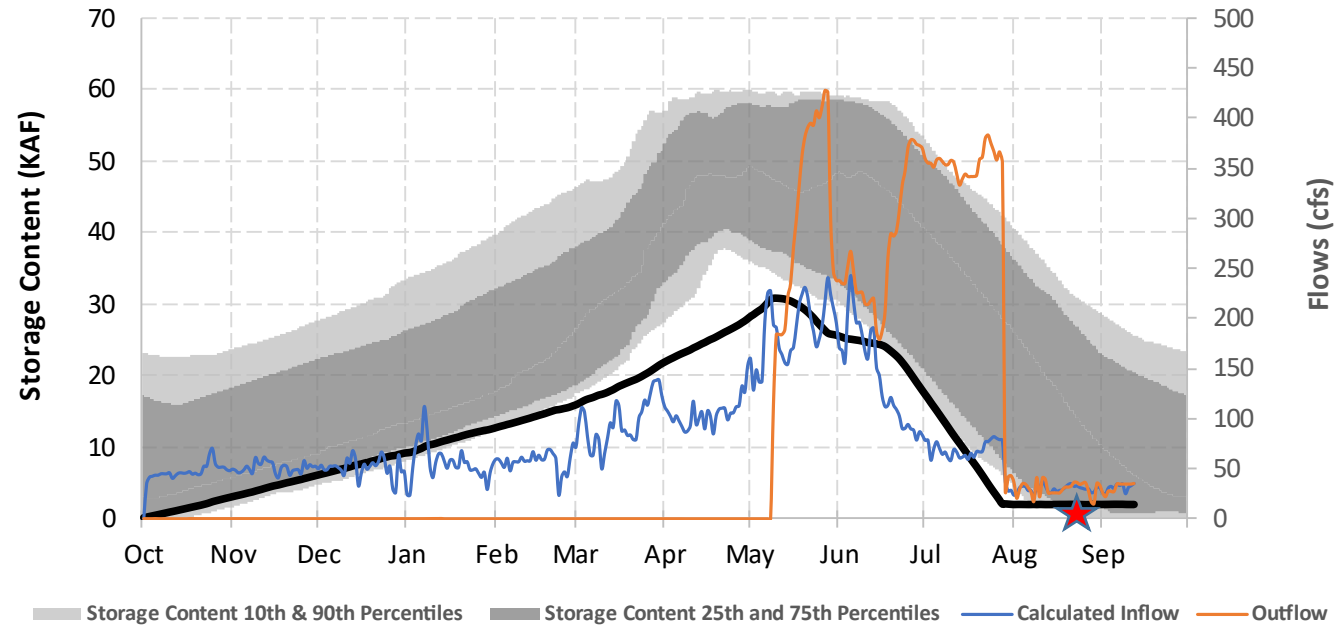


Malheur River Basin

09/12/2022



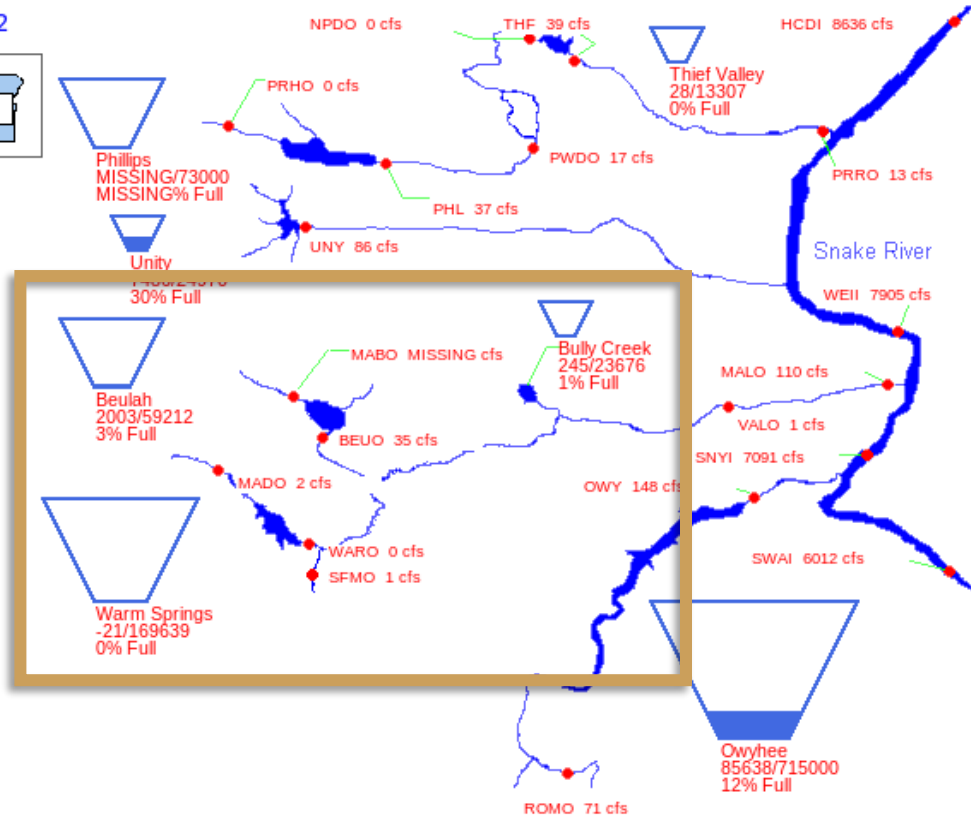
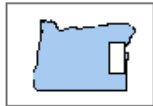
Beulah Dam and Reservoir



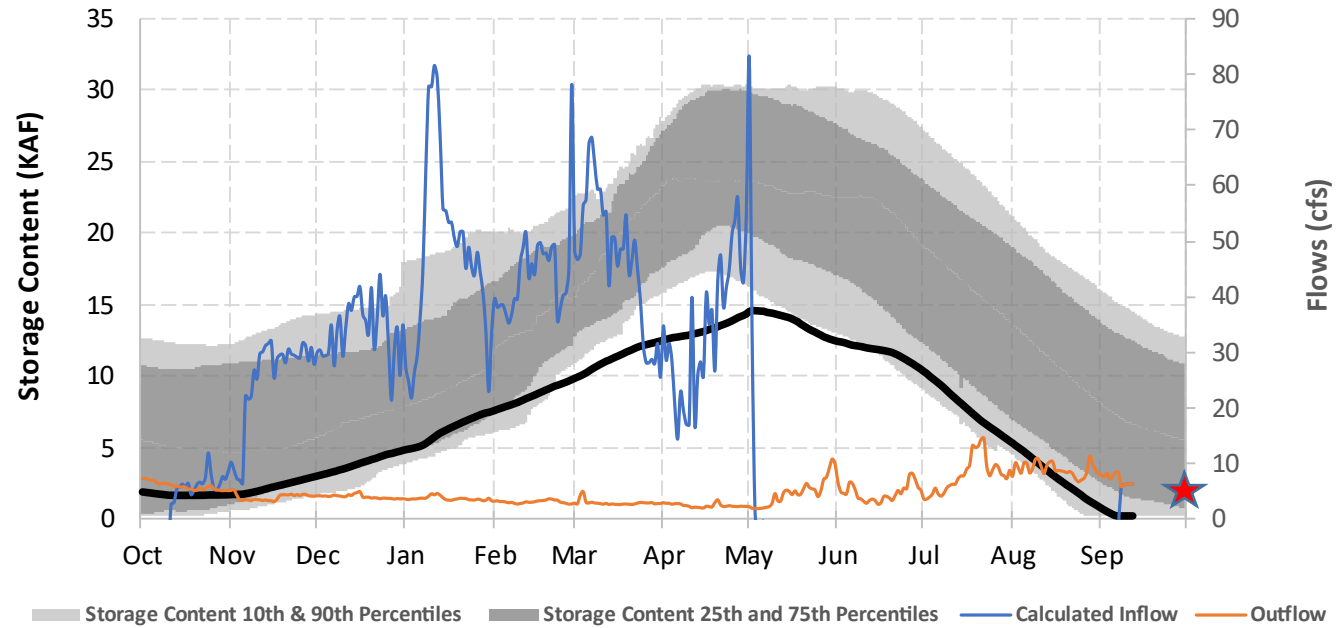
★ WY2021 Storage Content

Malheur River Basin

09/12/2022



Bully Creek Dam and Reservoir

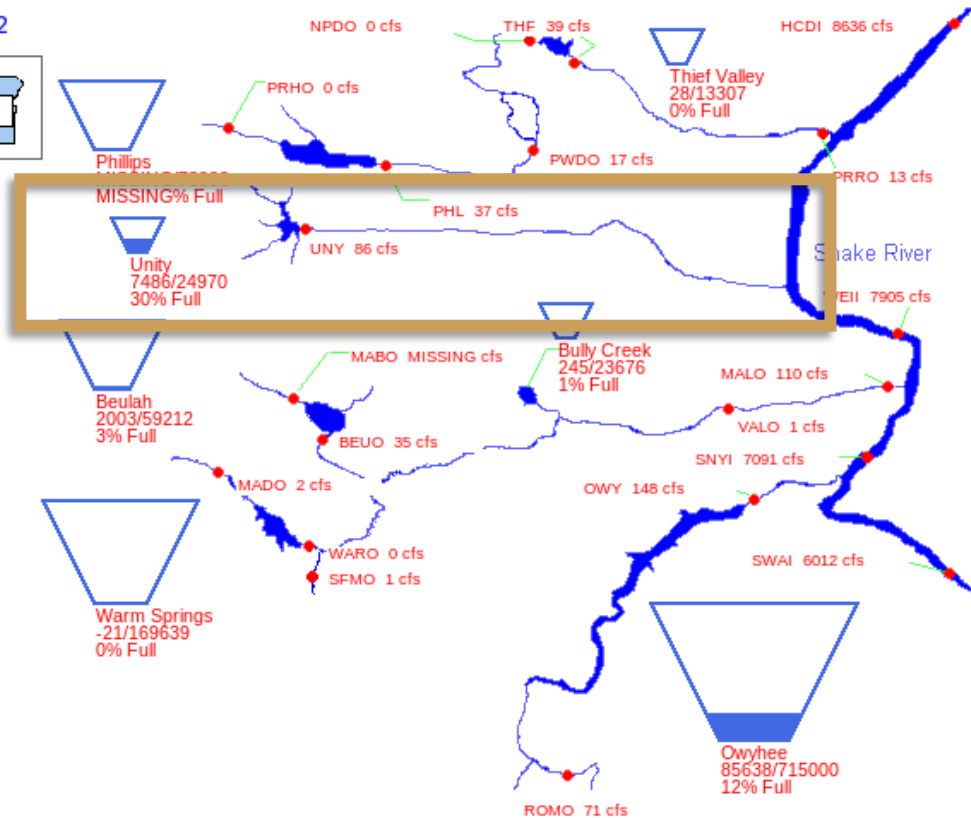
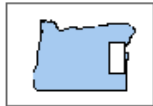


★ WY2021 Storage Content

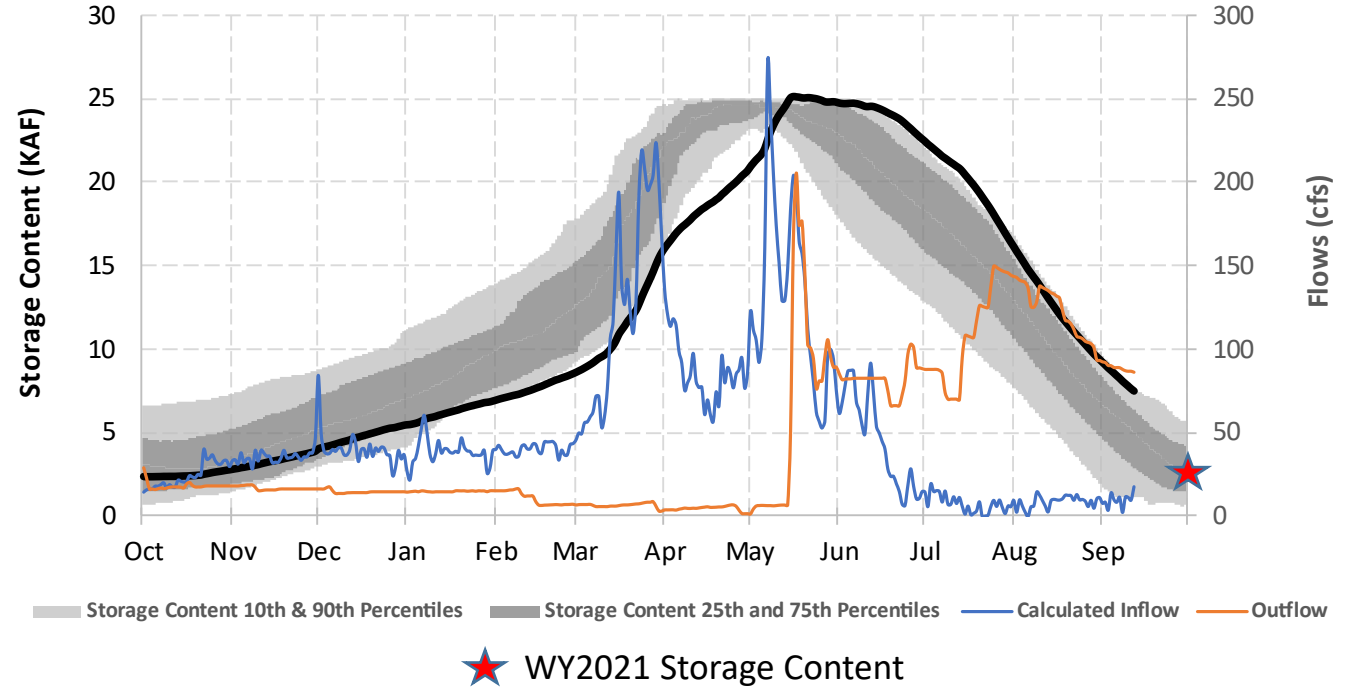


Burnt River Basin

09/12/2022

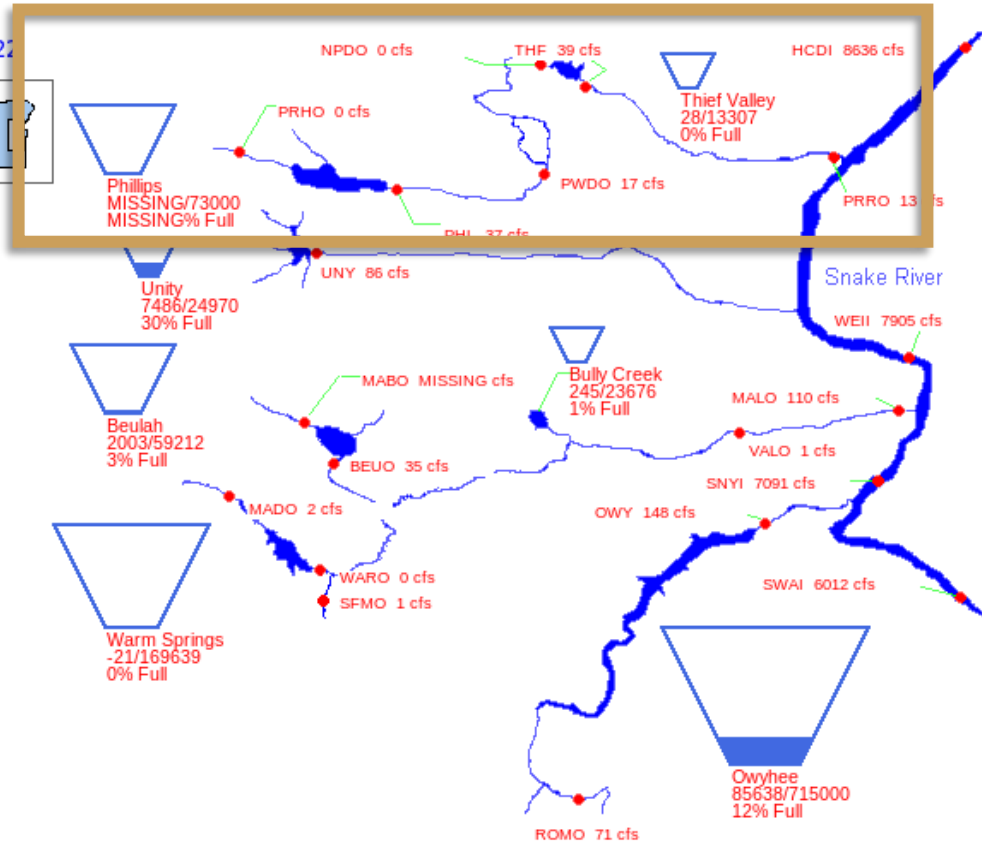


Unity Dam and Reservoir

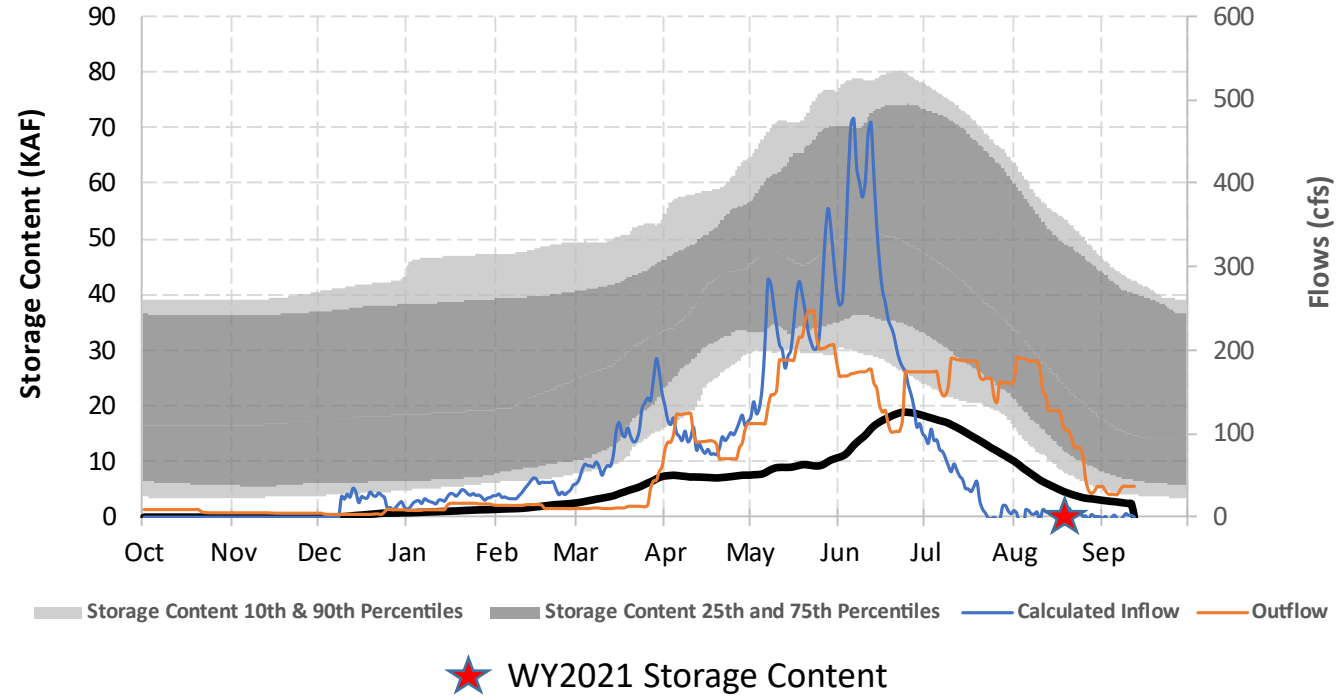


Powder River Basin

09/12/2021

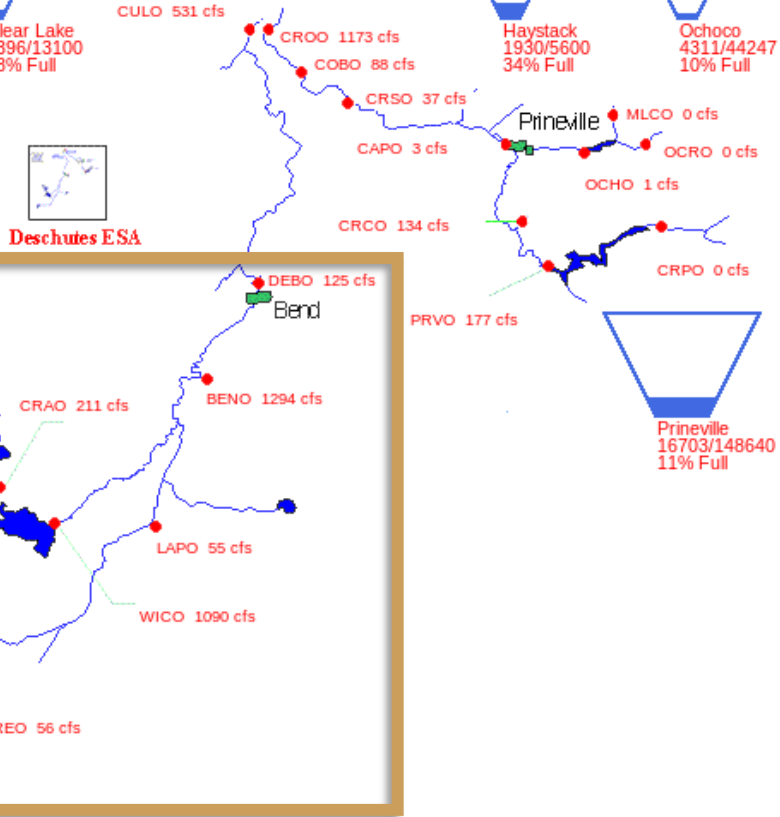
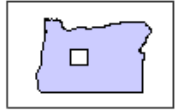


Mason Dam - Phillips Lake



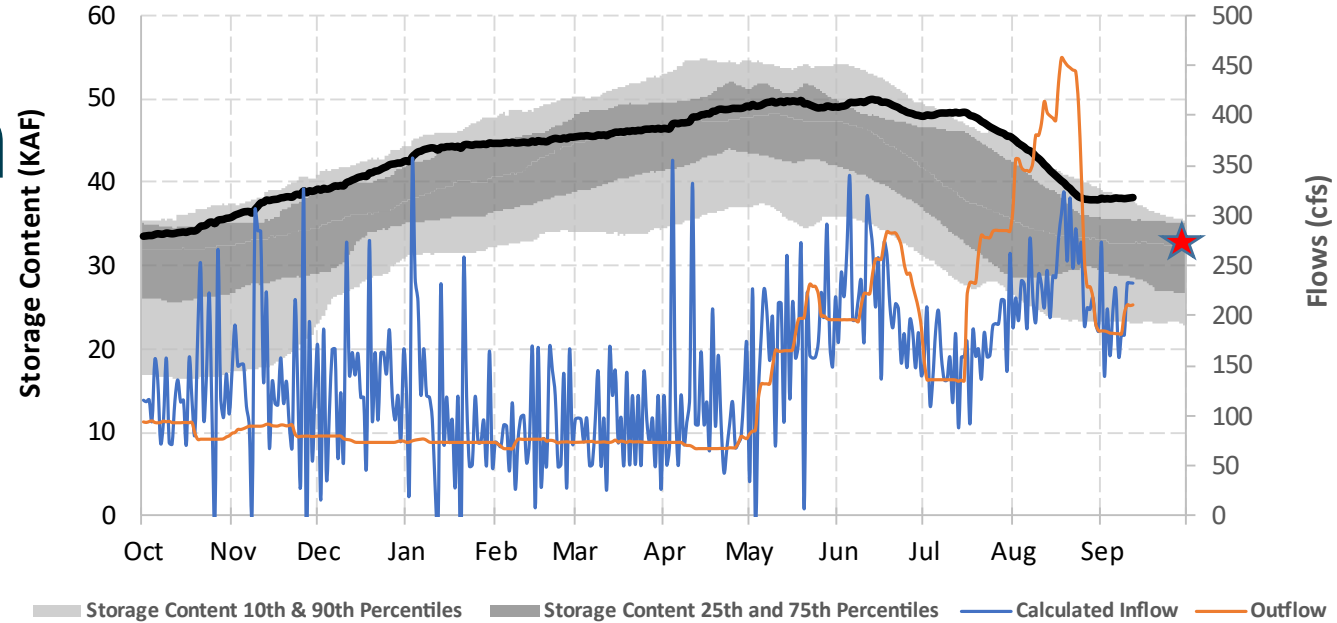
Deschutes River Basin

09/12/2022

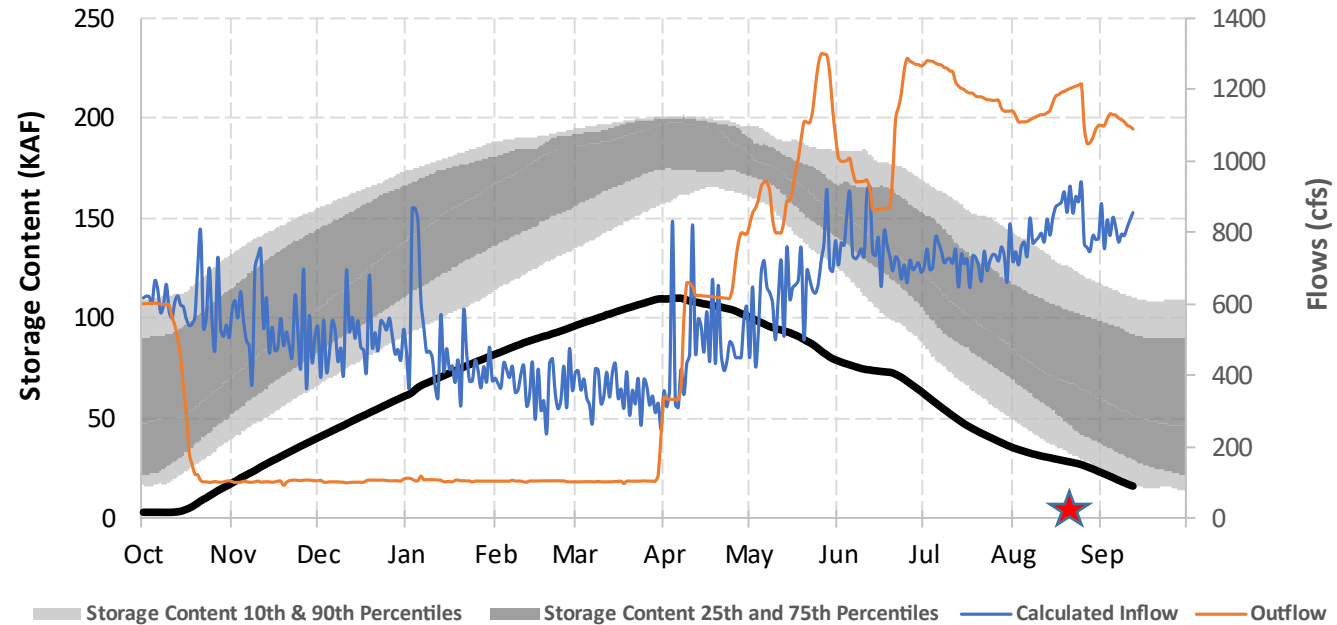


★ WY2021 Storage Content

Crane Prairie Dam and Reservoir

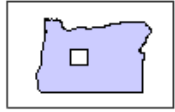


Wickiup Dam and Reservoir

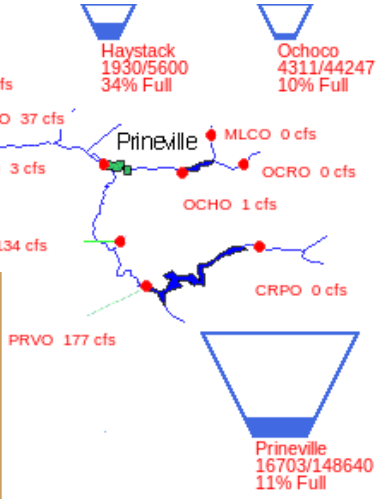
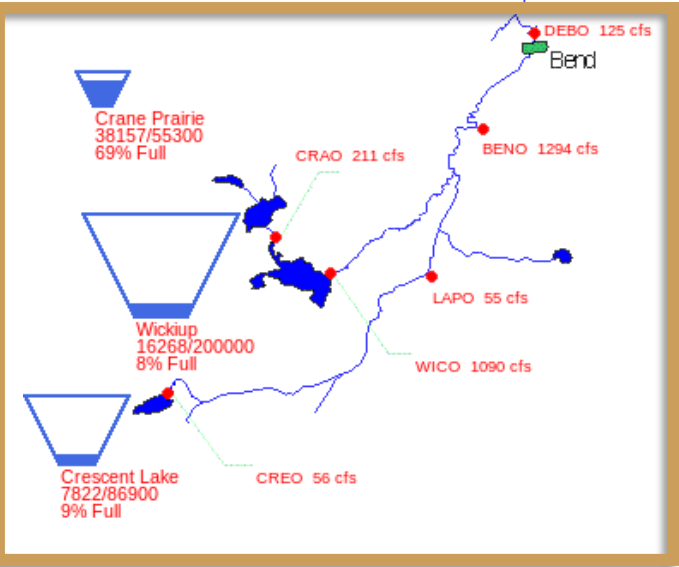


Deschutes River Basin

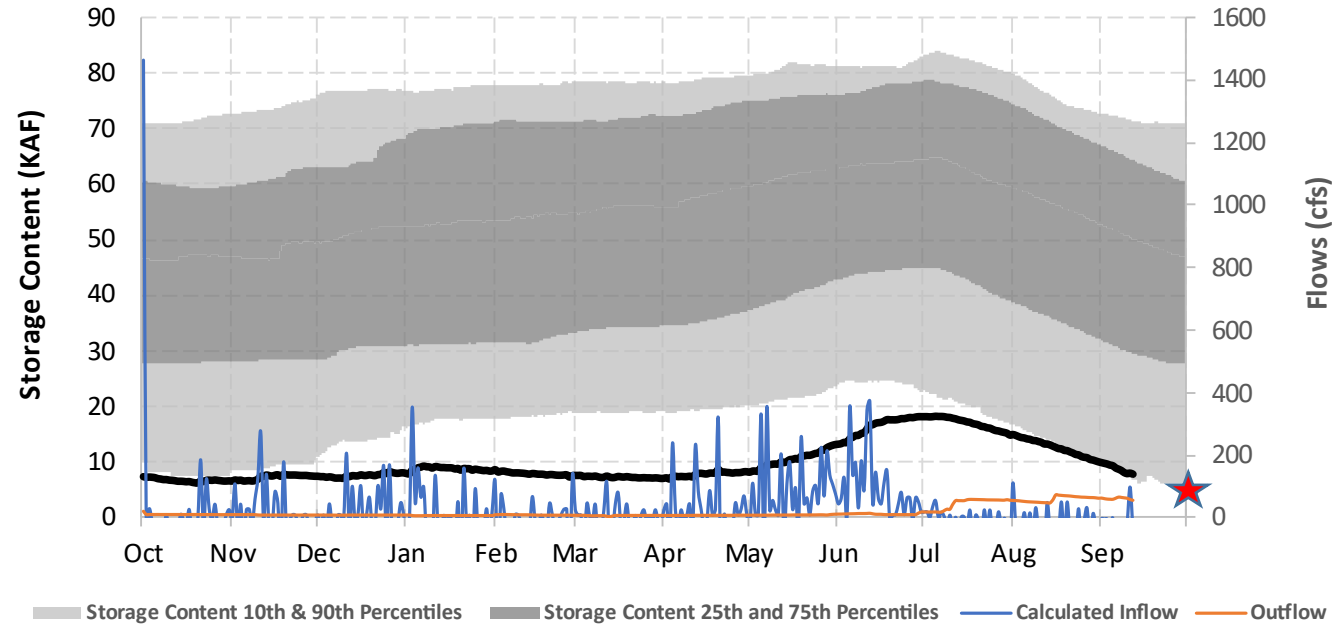
09/12/2022



Deschutes ESA



Crescent Lake Dam

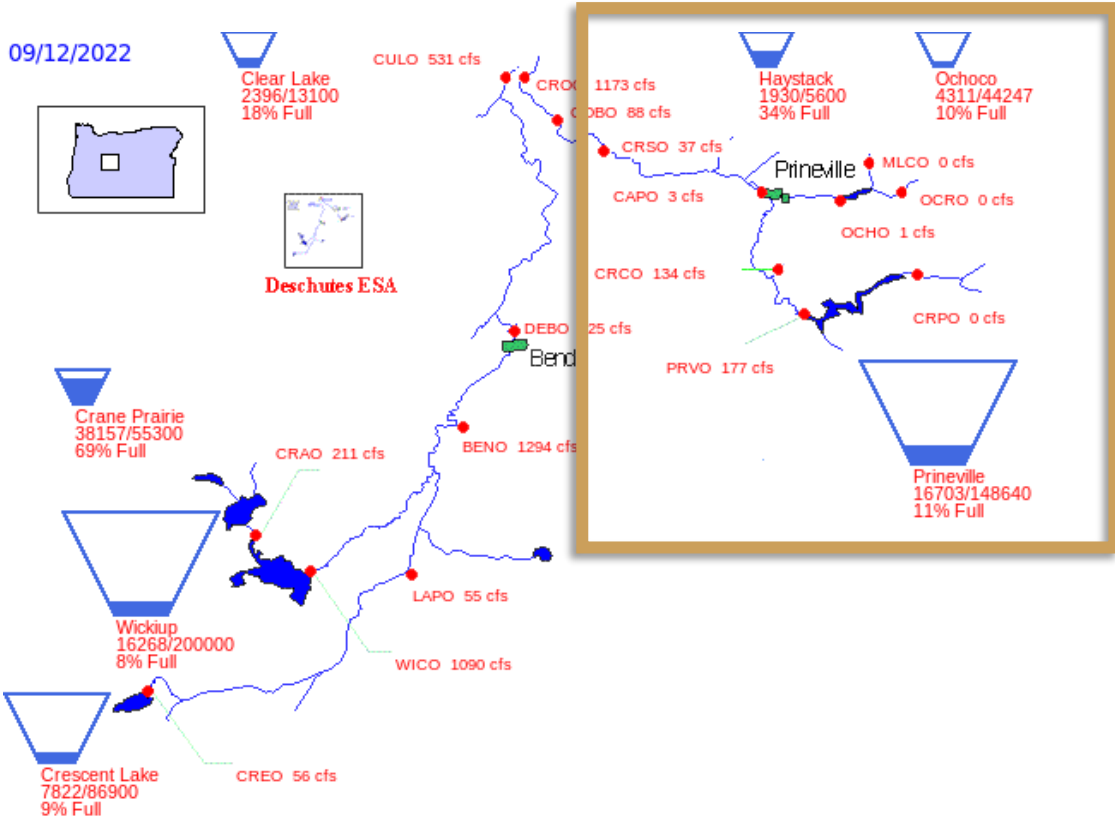


★ WY2021 Storage Content

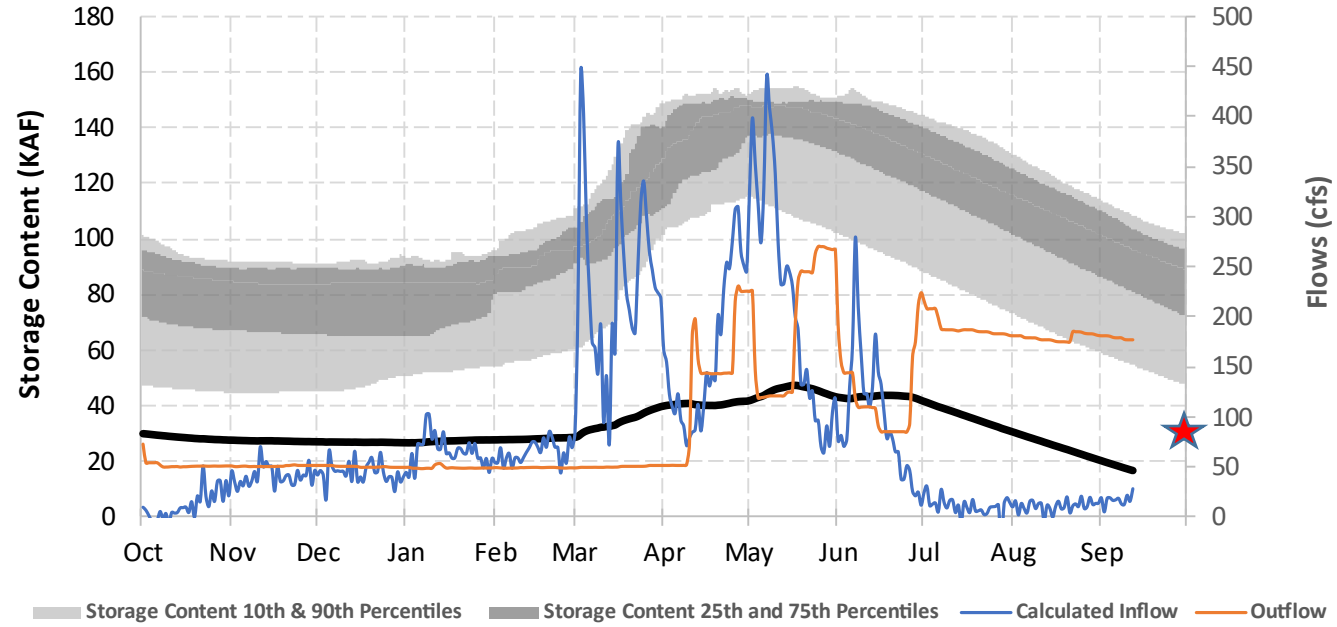


Crooked River Basin

09/12/2022



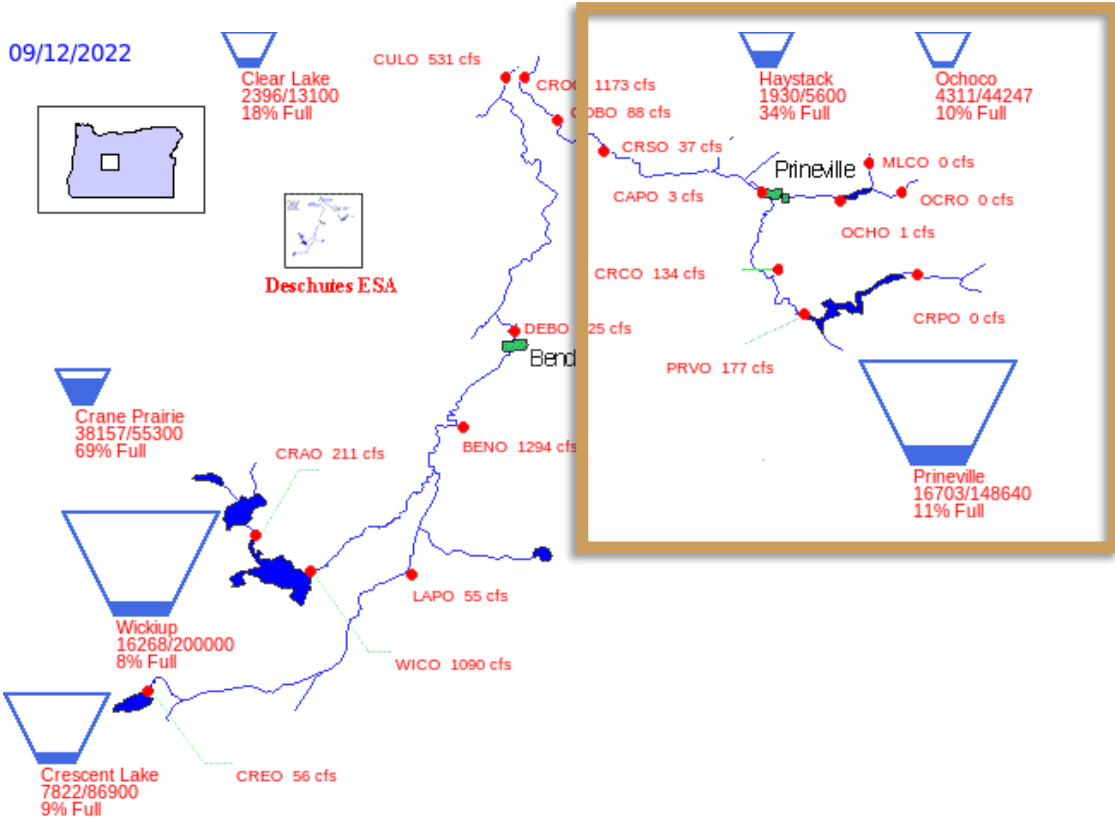
Bowman Dam - Prineville Reservoir



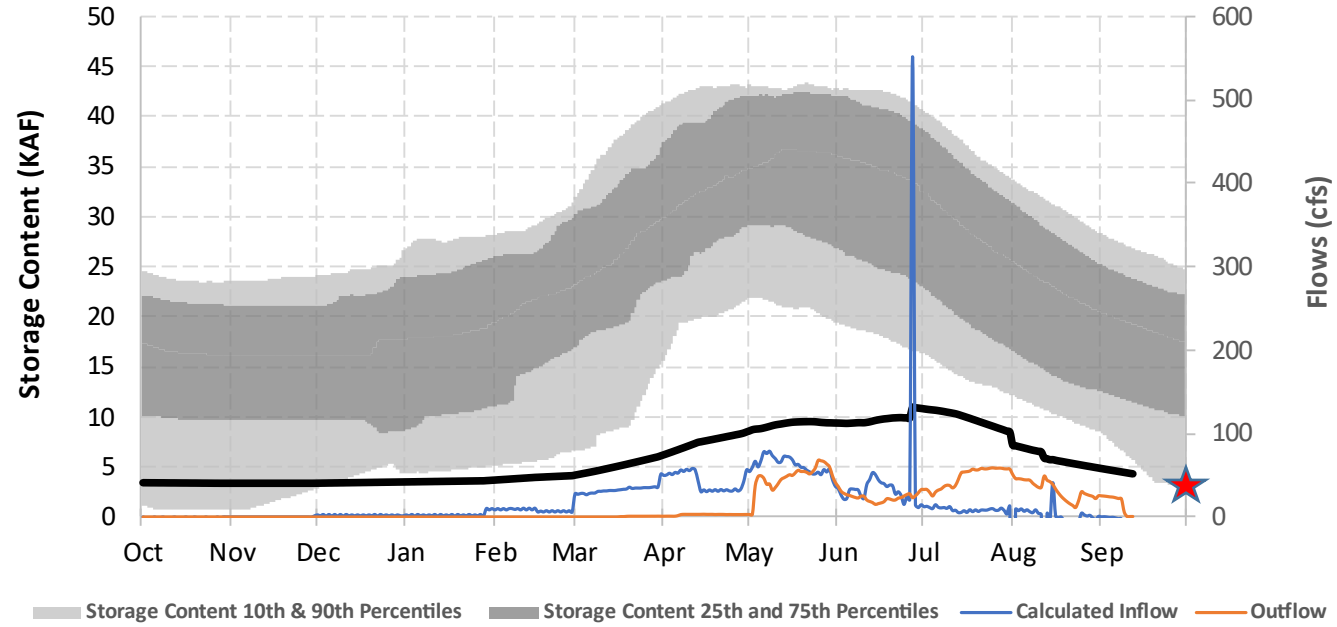
★ WY2021 Storage Content

Crooked River Basin

09/12/2022



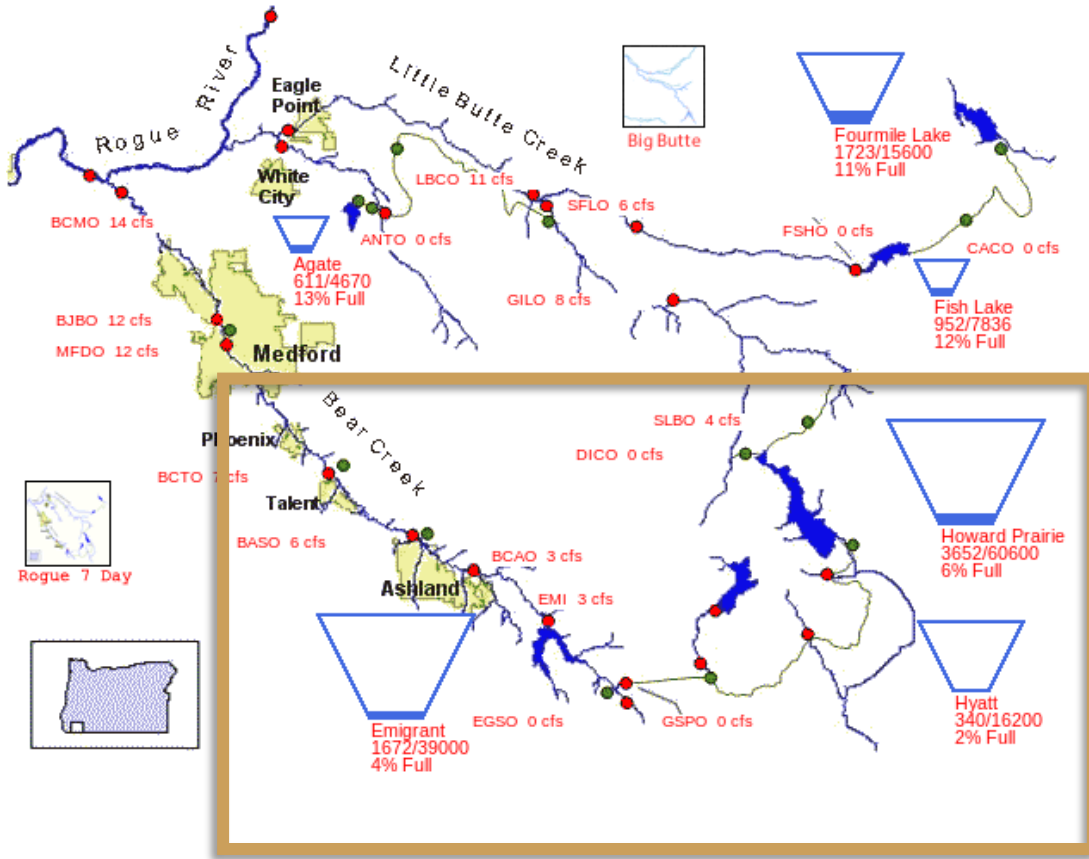
Ochoco Dam and Reservoir



★ WY2021 Storage Content

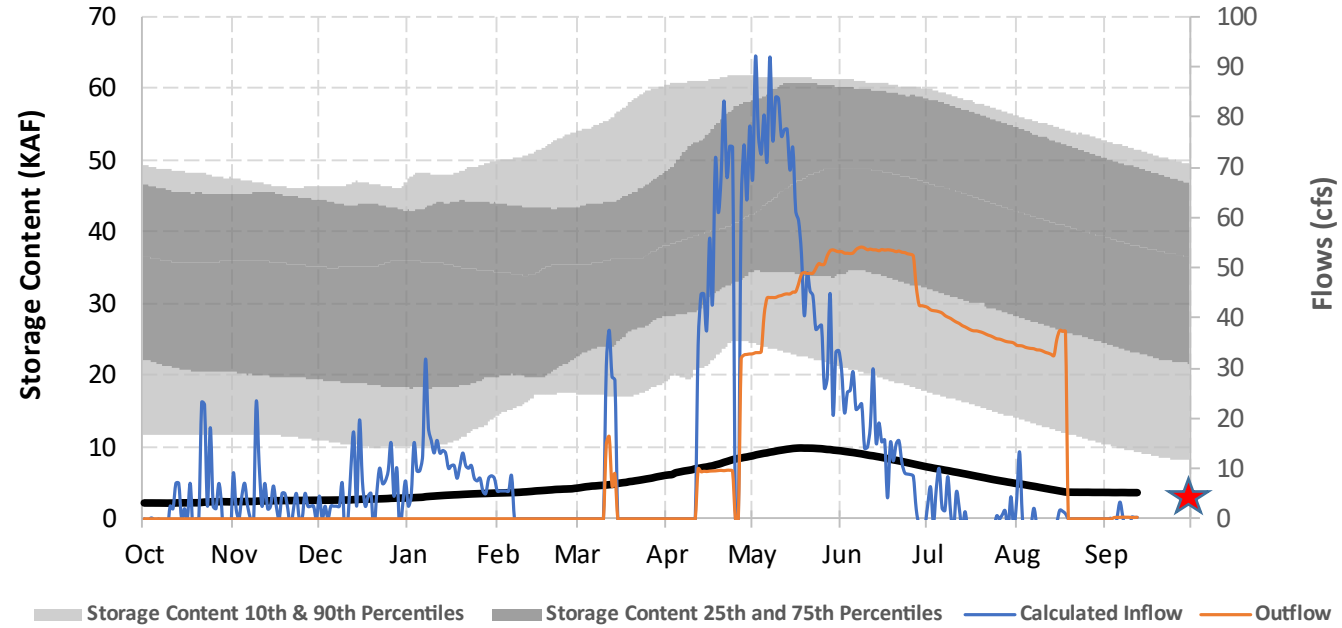
Rogue River Basin

09/12/2022



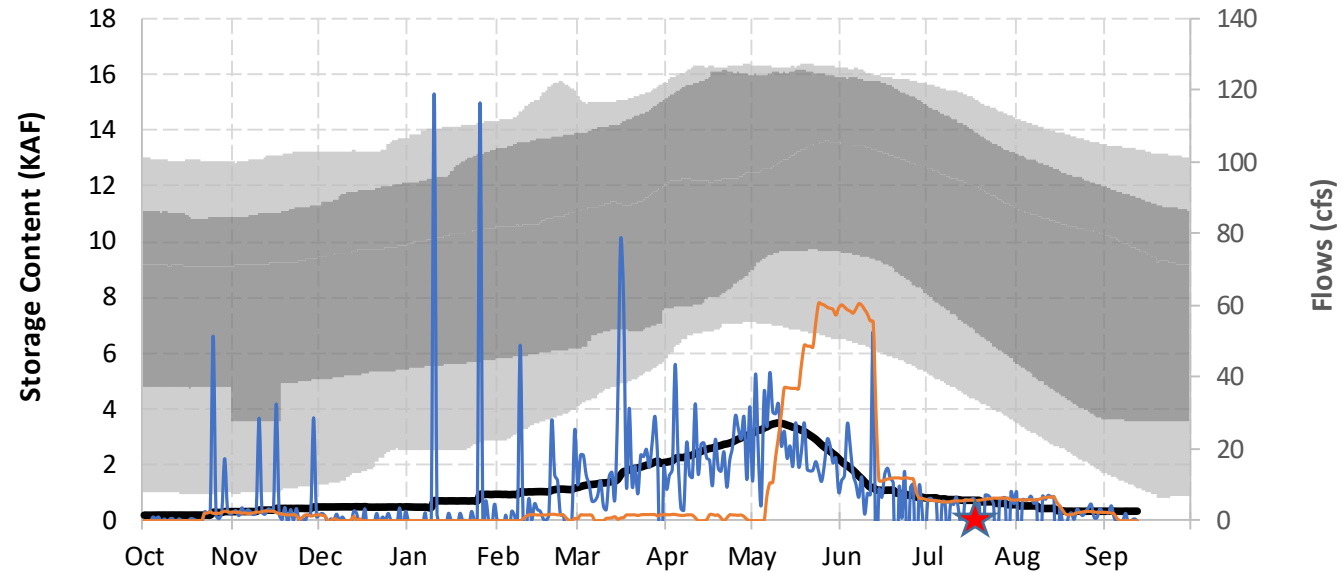
★ WY2021 Storage Content

Howard Prairie Dam and Lake



Storage Content 10th & 90th Percentiles Storage Content 25th and 75th Percentiles Calculated Inflow Outflow

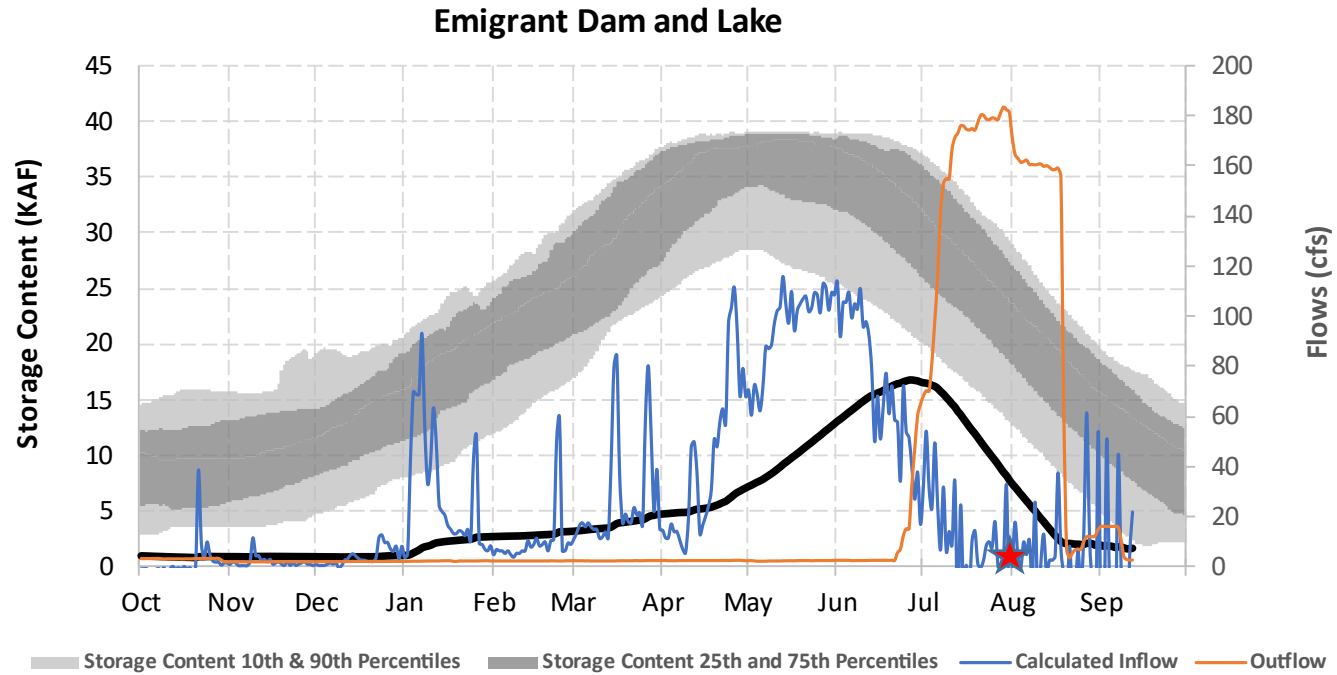
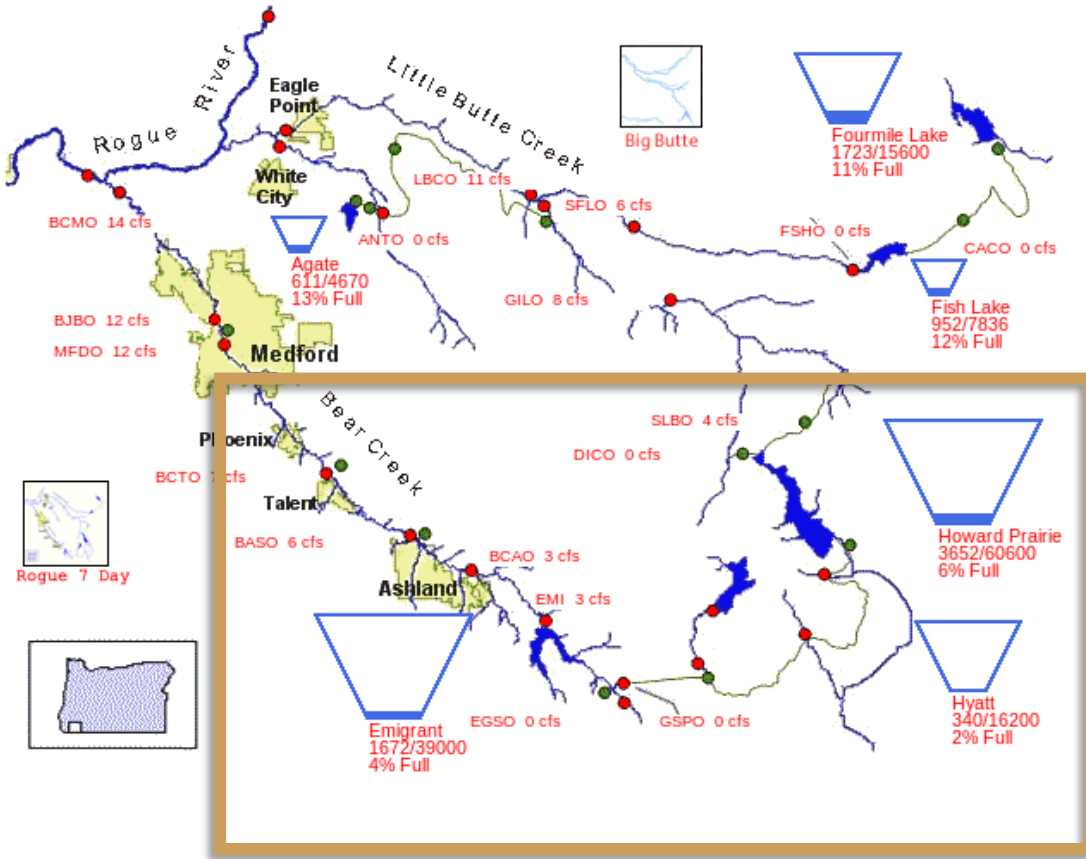
Hyatt Dam and Reservoir



Storage Content 10th & 90th Percentiles Storage Content 25th and 75th Percentiles Calculated Inflow Outflow

Rogue River Basin

09/12/2022

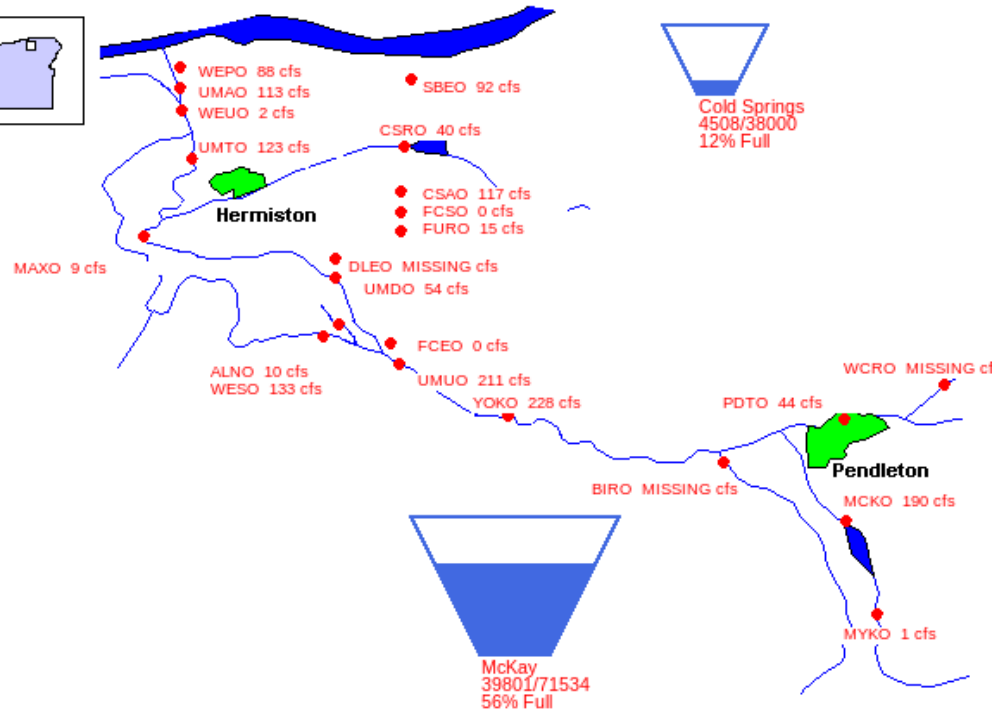
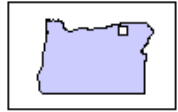


★ WY2021 Storage Content

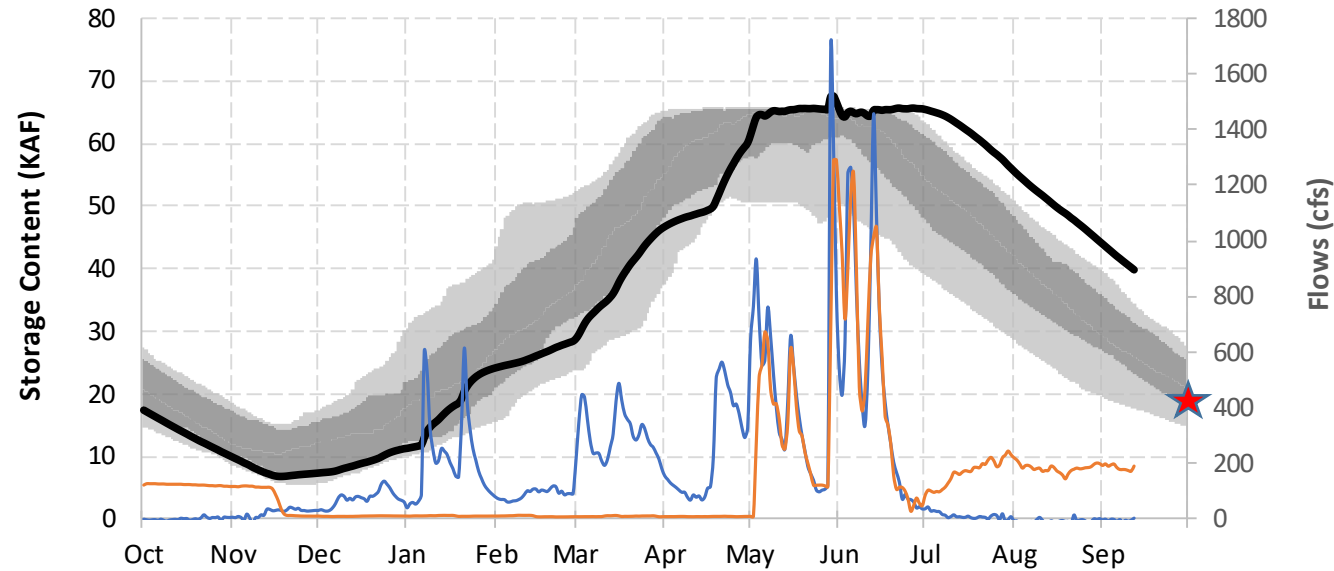


Umatilla River Basin

09/12/2022



McKay Dam and Reservoir



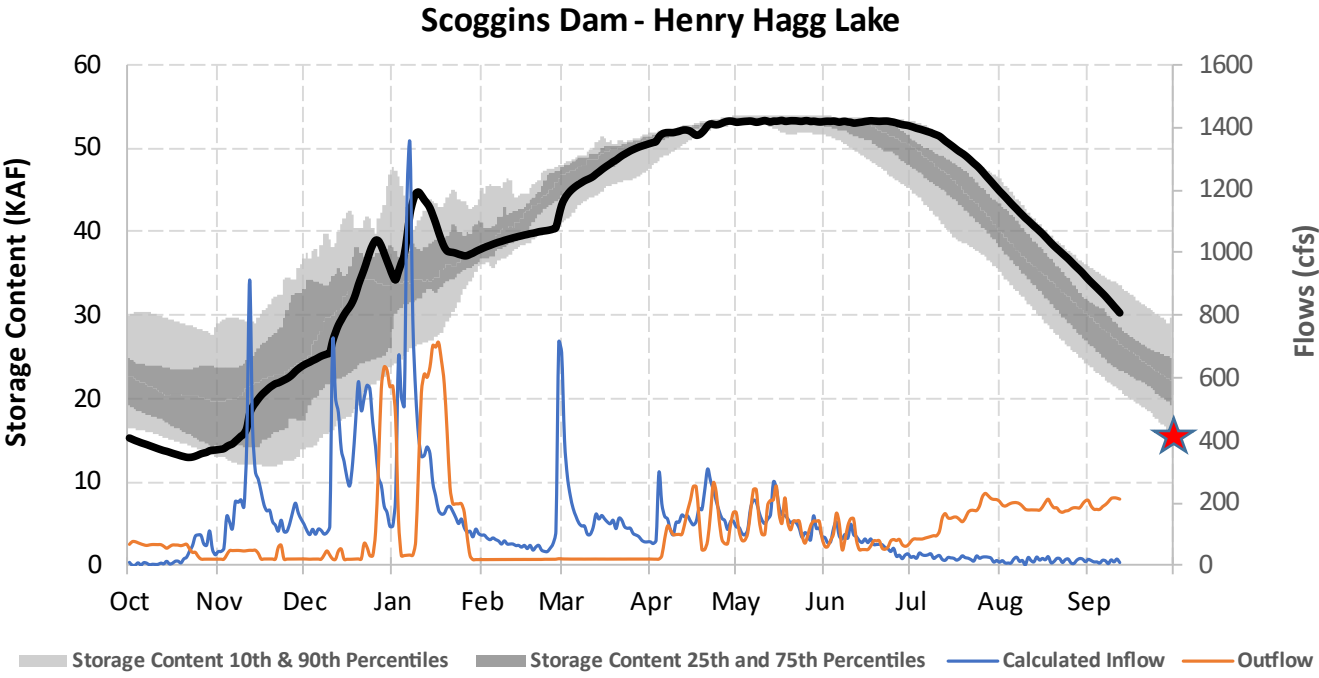
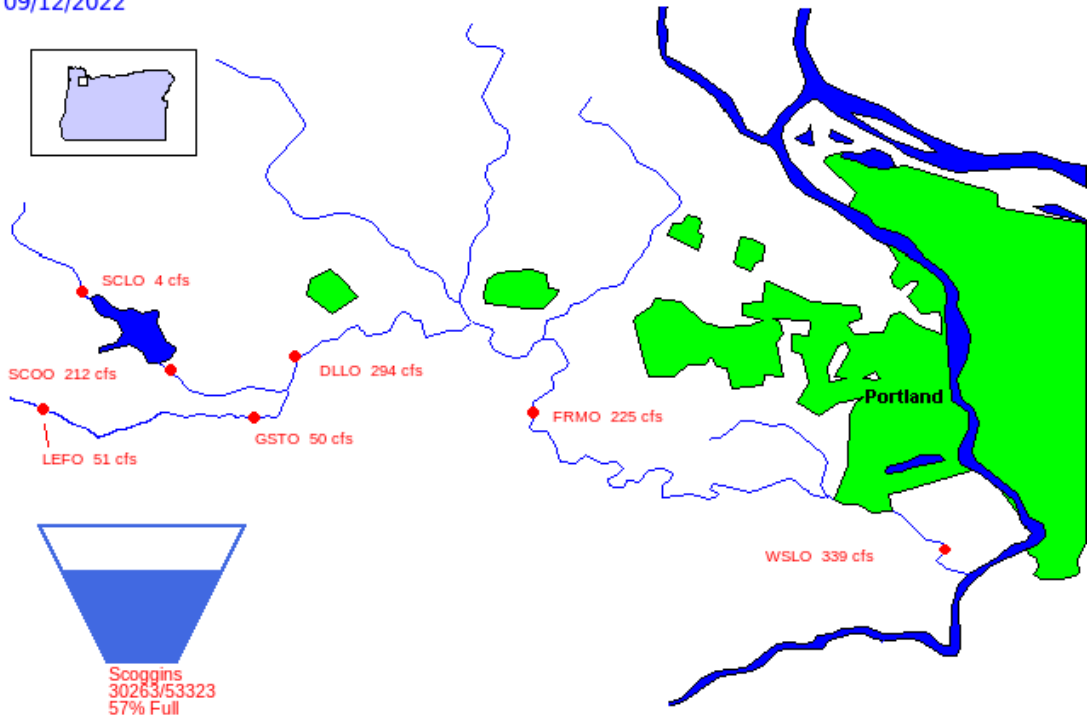
Storage Content 10th & 90th Percentiles
 Storage Content 25th and 75th Percentiles
 Calculated Inflow
 Outflow

★ WY2021 Storage Content



Tualatin River Basin

09/12/2022



★ WY2021 Storage Content



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208.378.5037



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RECLAMATION