



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PO Box 47600, Olympia, WA 98504-7600 • 360-407-6000

Water Supply Availability Committee (WSAC)

Thursday, June 12, 2025, 10 a.m. – 11:30 p.m.

Zoom: [Click to join](#). (Call-in: 253.205.0468; Meeting ID: 816 5686 6078; Passcode: 038972)

Meeting Objectives – June:

- Share pertinent info and assess water supply conditions in Washington for winter.

Agenda

| Time | Agenda item | Responsible |
|------------|--|--|
| 10:00 a.m. | Welcome and agenda review Recap: Drought Declaration and implications | Caroline Mellor, Ecology |
| 10:10 a.m. | Regional Climate Setting/ ENSO | Karin Bumbaco, WASCO |
| 10:25 a.m. | Mountain Conditions | Matt Warbritton, NRCS |
| 10:40 a.m. | Streamflow and Groundwater | Nick Sutfin, USGS |
| 10:55 a.m. | Yakima Project | Teresa Hauser, BOR |
| 11:05 a.m. | Water Supply Forecasts | Amy Burke, NWRFC/NWS |
| 11:20 a.m. | Discussion: What concerns do folks have for drought and Water Year 2025? | All participants Ecology facilities |
| 11:25 a.m. | Wrap-up | Caroline Mellor, Ecology |

Committee Purpose

WSAC provides an important consultative and advisory role to Ecology related to current and forecasted water supply conditions and whether the hydrologic drought threshold has been met or is forecasted to be met: seventy-five percent of normal water supply within a geographic area ([RCW 43.83B.405](#) and [WAC 173-166-050](#)).

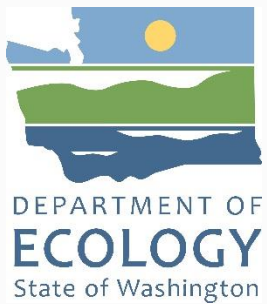
Resources

WSAC Website: [Water Supply Availability Committee - WA State Department of Ecology](#)

Ecology Drought homepage: [Drought response - WA State Department of Ecology](#)

Contact

Committee Chair: Caroline Mellor, Statewide Drought Lead, WA Department of Ecology
Caroline.Mellor@ecy.wa.gov | (c) 360.628.4666



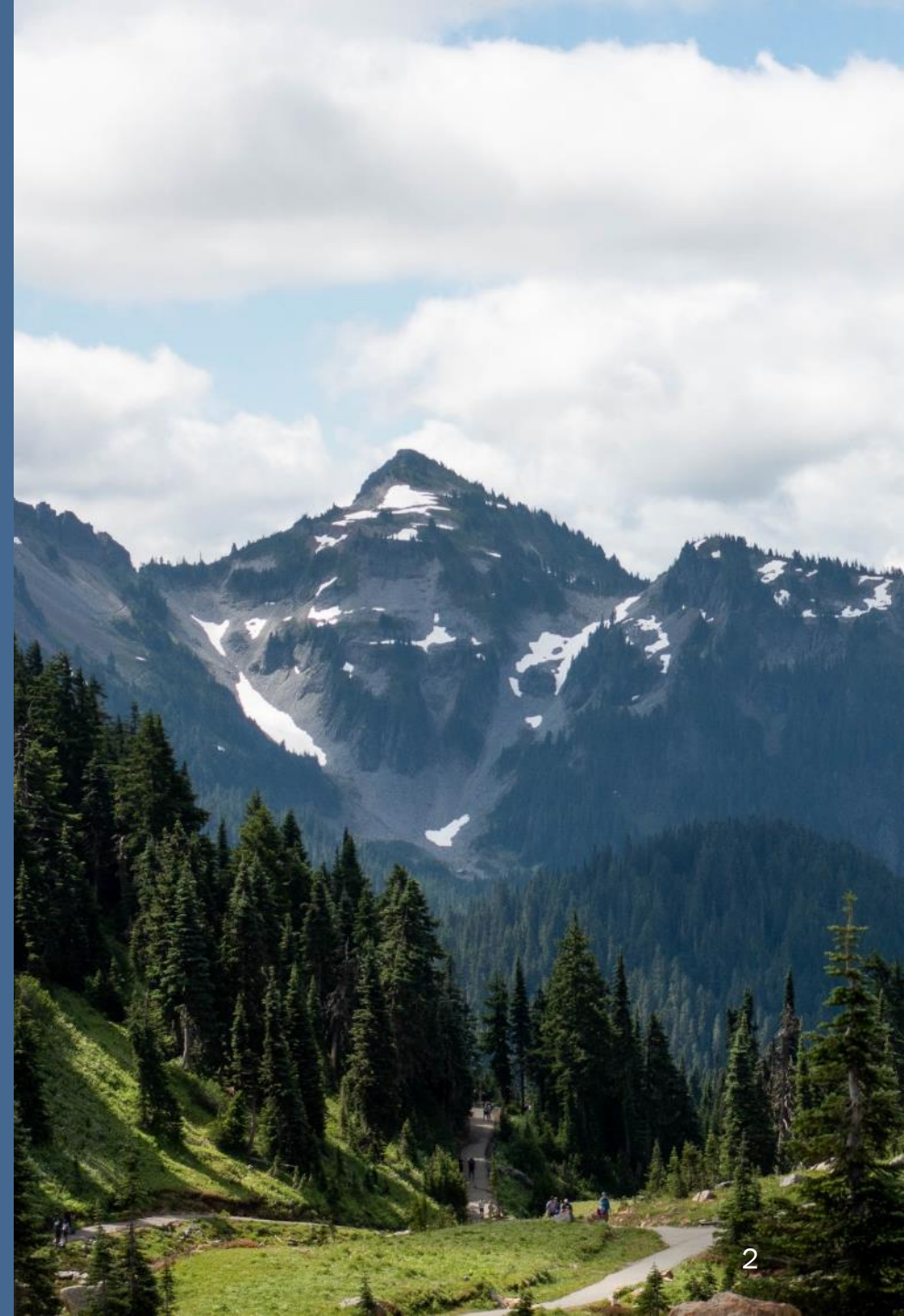
Water Supply Availability Committee

June 12, 2025

Water Resources Program



Recording!



Agenda

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| 10:10 a.m. | Regional Climate Setting / ENSO | Karin Bumbaco, WSCO |
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| 11:05 a.m. | Water Supply Forecasts | Brent Bower, NWS |
| 11:20 a.m. | Discussion: What concerns do folks have for drought recovery and Water Year 2025? | All participants Ecology facilitates |
| 11:25 a.m. | Wrap-up and next steps | Ecology |

Committee Role

WSAC provides an important consultative and advisory role to Ecology related to:

- Current and forecasted water supply conditions;
- Whether the hydrologic drought threshold has been met or is likely to be met.

Meeting Objectives

- Share pertinent info and assess water supply conditions in Washington state as we enter summer of Water Year 2025.

Drought Emergency Declaration

On June 5, 2025, Ecology issued a drought emergency declaration in the **North and Central Cascade Mountains and parts of the Puget Sound area**, due to low snowpack, early and rapid snowmelt and a dry April and May.

This served as an expansion of the April 8, 2025, drought declaration for the **Yakima Basin watersheds**.

*The utilities of Everett, Seattle and Tacoma do not expect issues for their customers.



Drought Conditions

Drought conditions - two requirements:

- 1. Hydrologic threshold** – An area is receiving, or is projected to receive, less than seventy-five percent of normal water supply.
- 2. Hardship threshold** – Water users and the environment are or are expected to experience undue hardship.

This Committee advises on the hydrologic threshold.

See: [RCW 43.83B.405](#) and [WAC 173-166-050](#).

Water Supply Factors

Water
year to
date

- Snowpack
- Precipitation
- Temperature
- Soil moisture

Hydrologic
threshold
for
drought
was met
in 2025

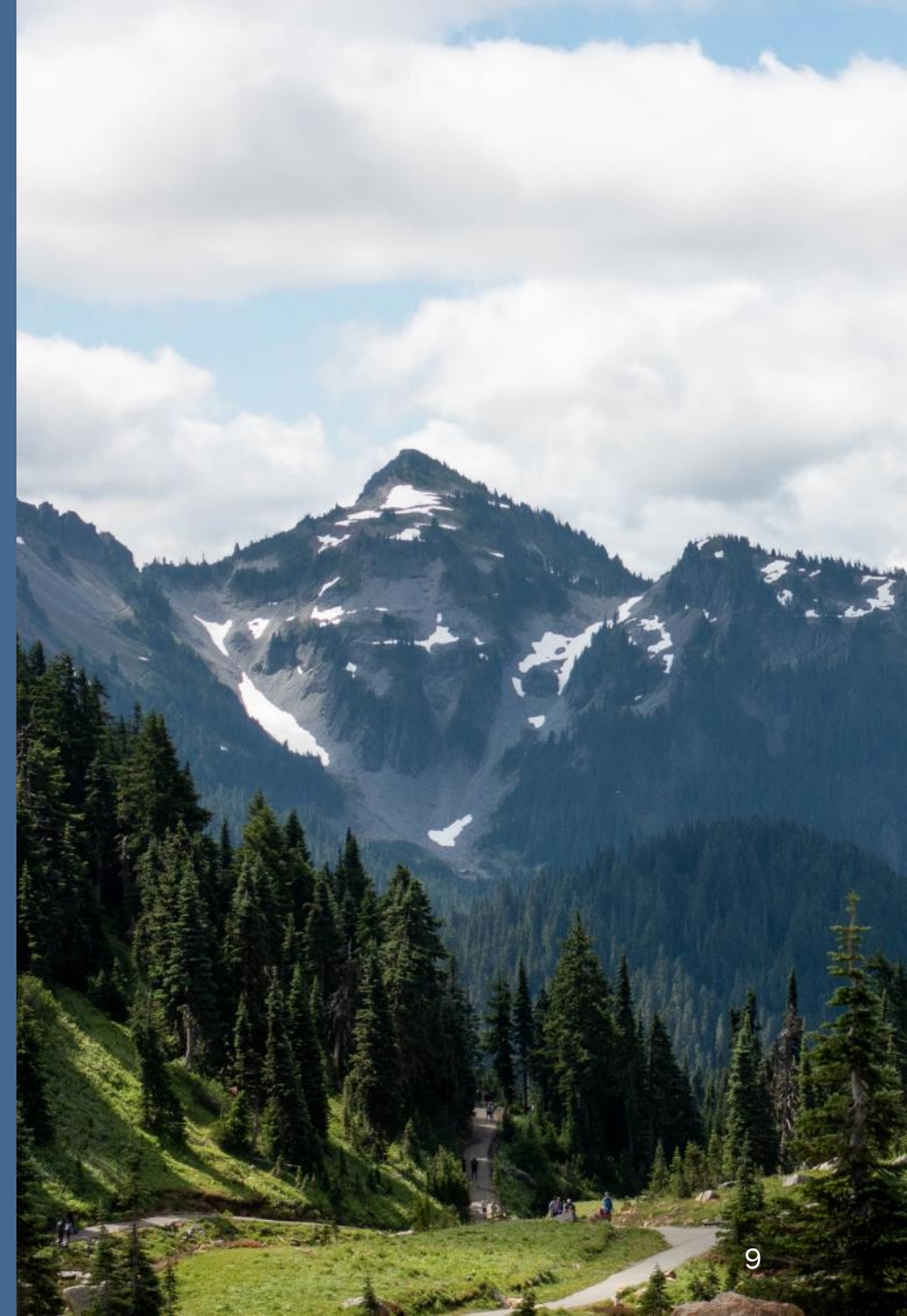
Forecasts

- Streamflow
- Precipitation
- Temperature
- Soil moisture





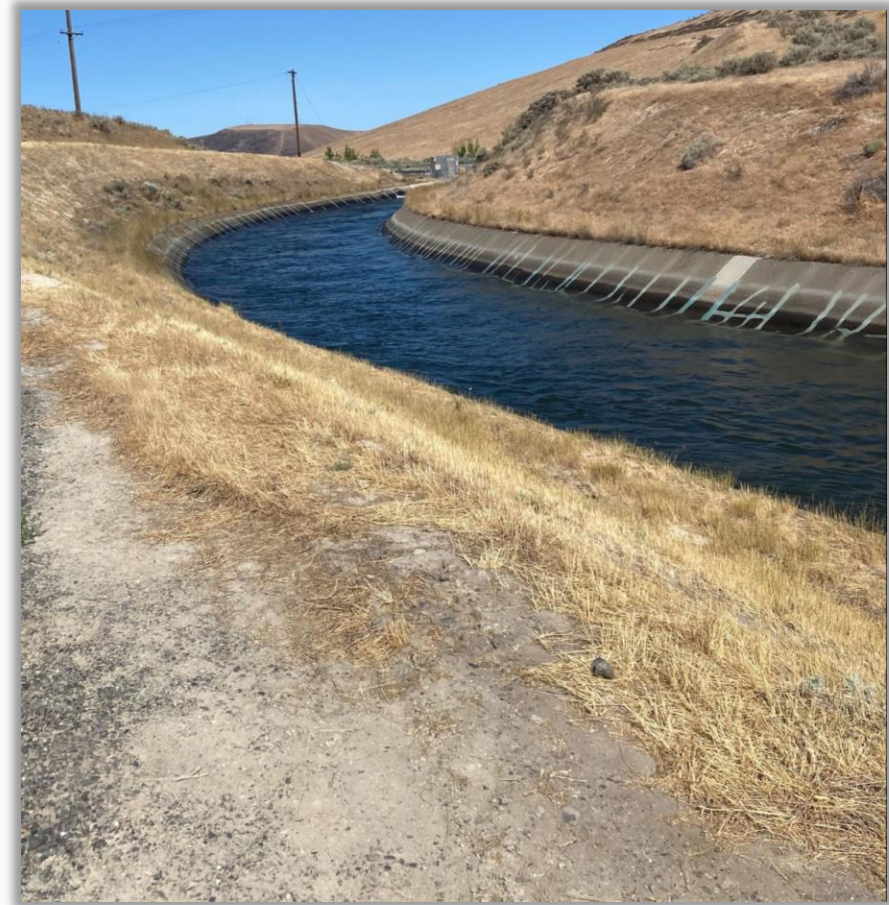
Implications of a Drought Declaration



What Does a Declaration Do?

Provides Ecology with the authority to:

1. Expedite emergency water transfer applications.
2. Establish a grant program to mitigate hardships to water users and the environment.



Drought Response Funding

Grants to governmental entities:

- Federally recognized Tribes
- Counties, cities, and towns
- Water and sewer districts
- Public utility districts
- Port districts
- Conservation districts
- Irrigation districts
- Watershed management partnerships

Additional Implications

State agencies – Ecology can enter into interagency agreements to fund drought response efforts

- Examples: DOH, DFW, SCC, AGR

Eligibility for federal drought funding

Important communications tool

Example Drought Response Grant Projects

Agriculture or livestock

- Purchasing or leasing water or water rights
- Replacing intakes, pumps, and related accessories

Public water supply

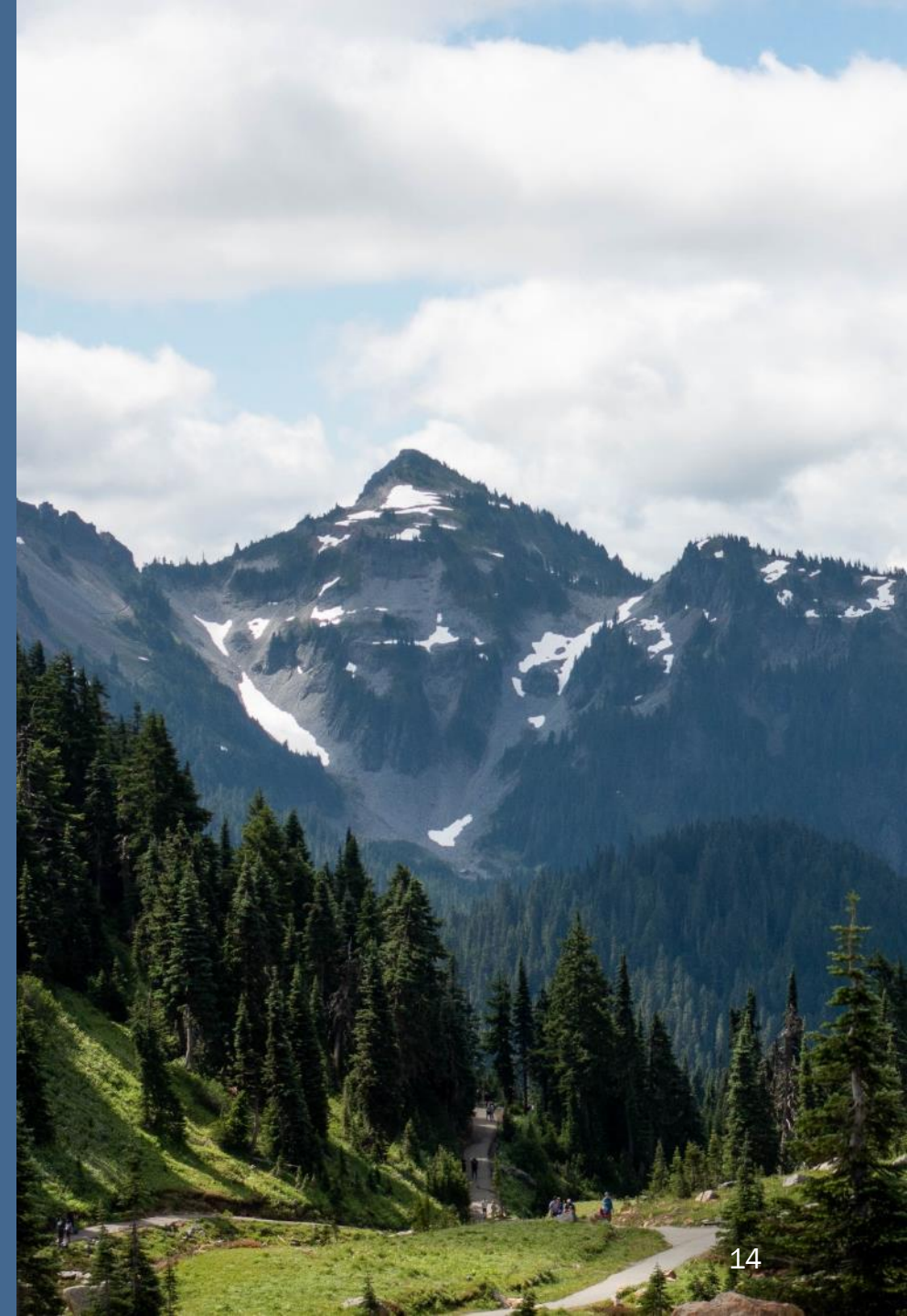
- Transporting emergency water supplies
- Implementing water conservation strategies

Fisheries and wildlife

- Eliminating migration barriers
- Modifying stream channels adjacent to a hatchery



Presenters



Discussion Question

For all meeting attendees:

What concerns do folks have for Water
Year 2025?

Drought Info

- Updated drought website: [Drought Response - Washington State Department of Ecology](#)
 - New Declaration: [Order of Determination by the Director](#)
 - Press release: [June 5 - Drought - Washington State Department of Ecology](#)
- [Water Supply Availability Committee \(WSAC\) website](#)



Thank you

Contact: WSAC Committee Chair
Caroline Mellor
Statewide Drought Lead
Caroline.Mellor@ecy.wa.gov



Current Conditions and Seasonal Outlook

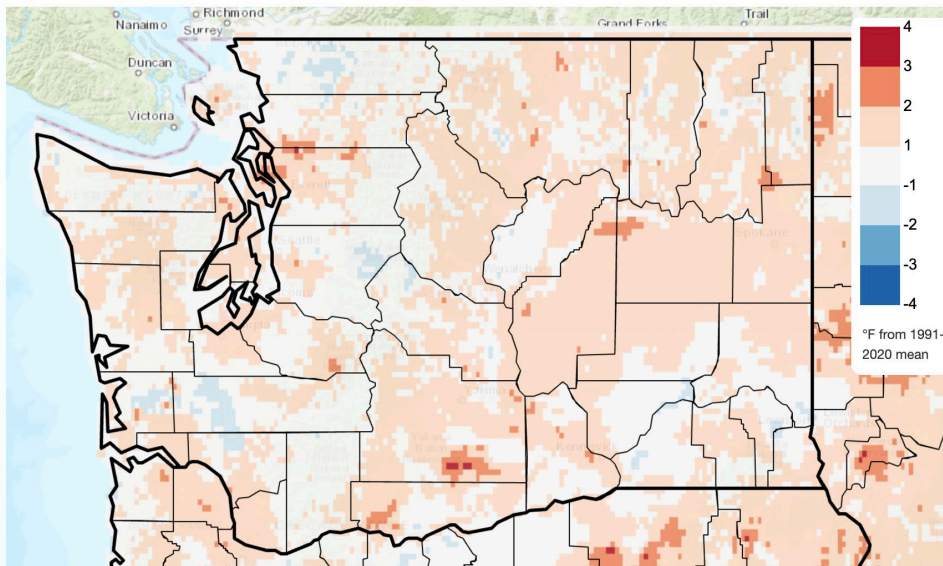
Karin Bumbaco
Washington State Climate Office
Climate Impacts Group
University of Washington
June 12, 2025

Water Year 2025

Temperature

Mean Daily Temperature Anomaly, Since Oct 1st

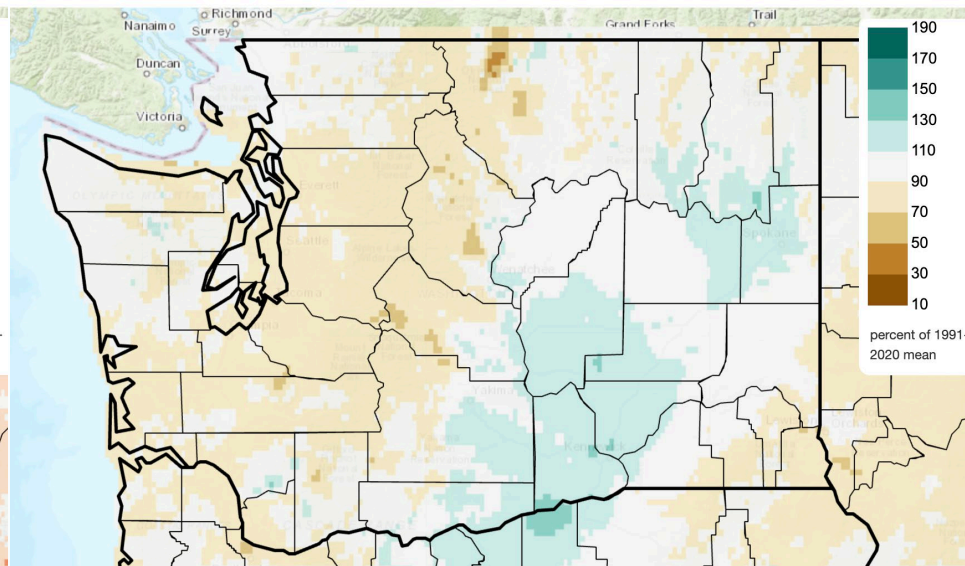
2024/10/01 - 2025/06/09



Precipitation

Total Precipitation Anomaly, Since Oct 1st

2024/10/01 - 2025/06/09



[Climate Toolbox](#)

- Averaged statewide, Oct-May temperatures were slightly above normal ($+0.7^{\circ}\text{F}$), ranking as the 19th warmest on record*
- Averaged statewide, Oct-May precipitation was near-normal (91% of normal)

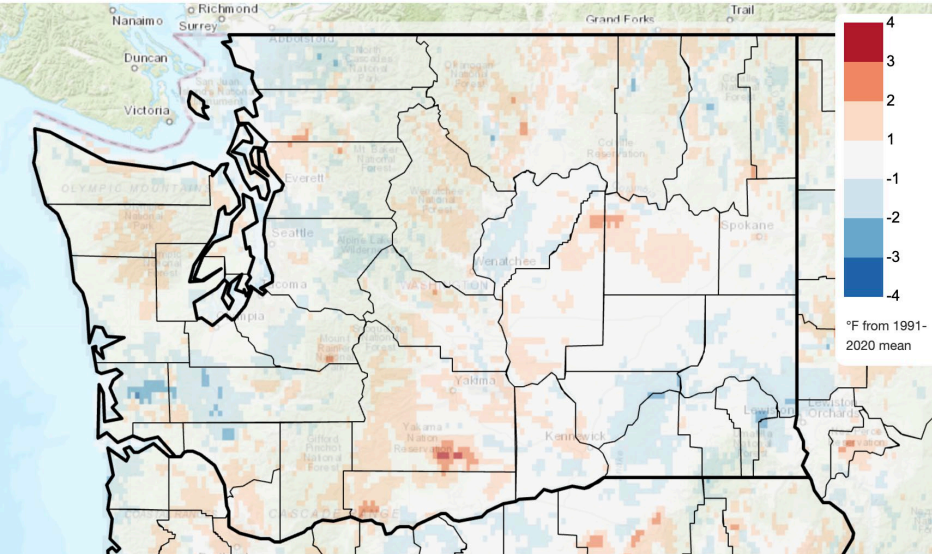
*Records since 1895; Normal is 1991-

Since January 1

Temperature

Mean Daily Temperature Anomaly, Since Jan 1st

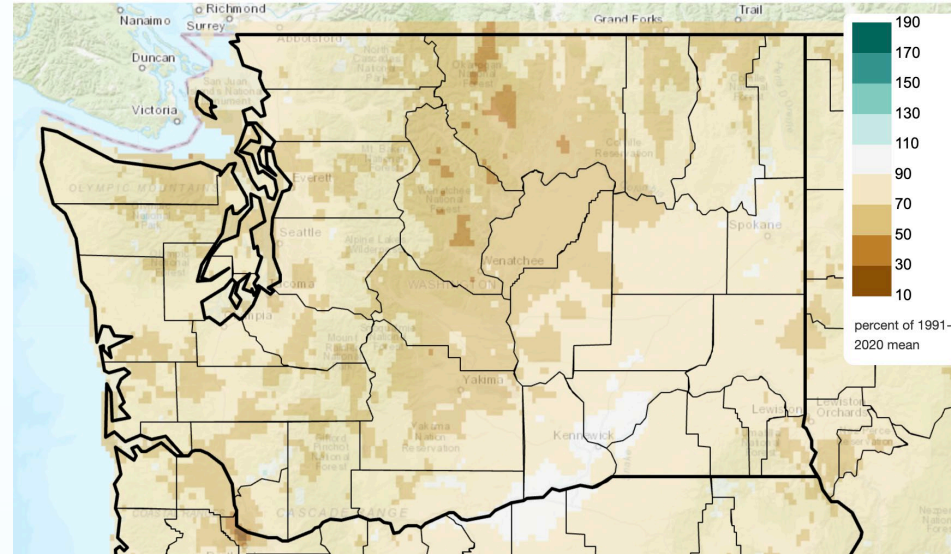
2025/01/01 - 2025/06/09



Precipitation

Total Precipitation Anomaly, Since Jan 1st

2025/01/01 - 2025/06/09



[Climate Toolbox](#)

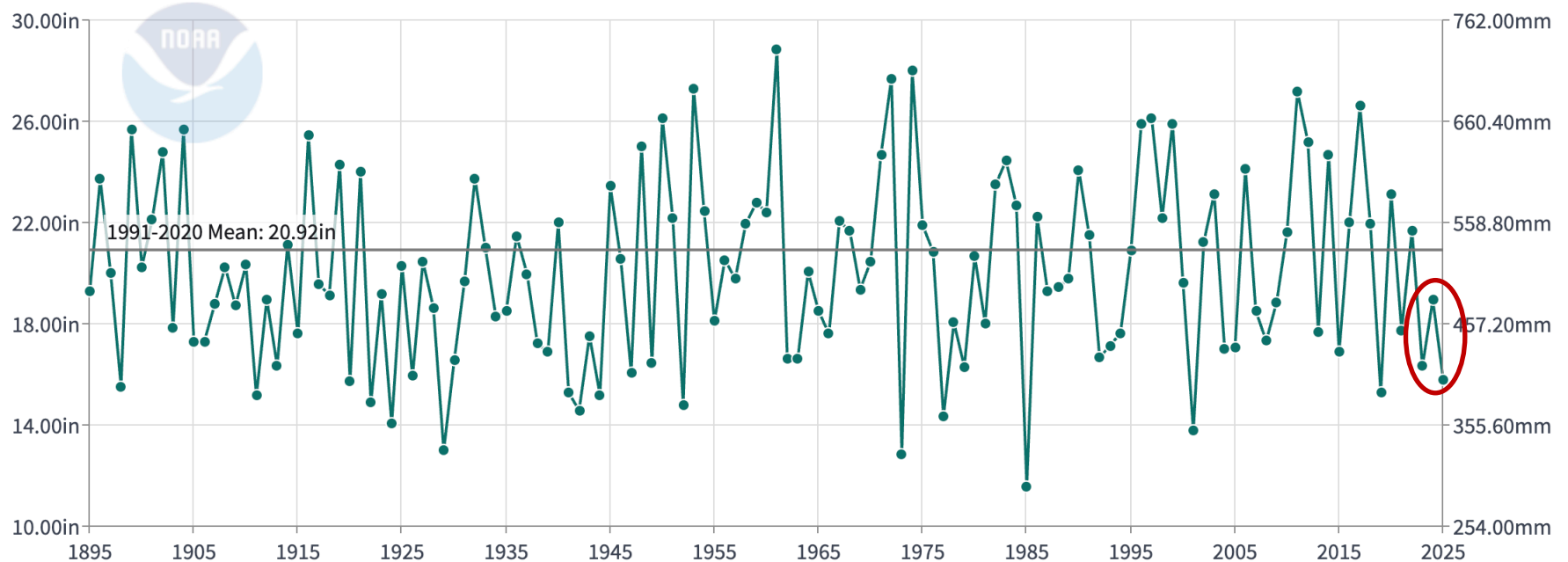
- Averaged statewide, Jan-May temperatures were near-normal (-0.2°F)*
- Averaged statewide, Jan-May precipitation was below normal (76% of normal), ranking as the 16th driest*

*Records since 1895; Normal is 1991-2020

January-May Precipitation

Washington Precipitation

January-May

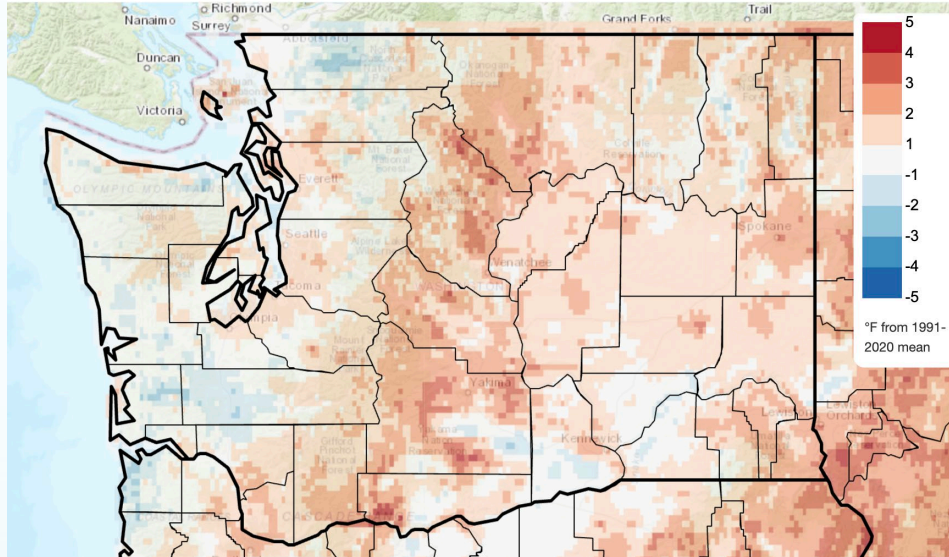


May 2025

Temperature

Mean Daily Temperature Anomaly, Last Full Month

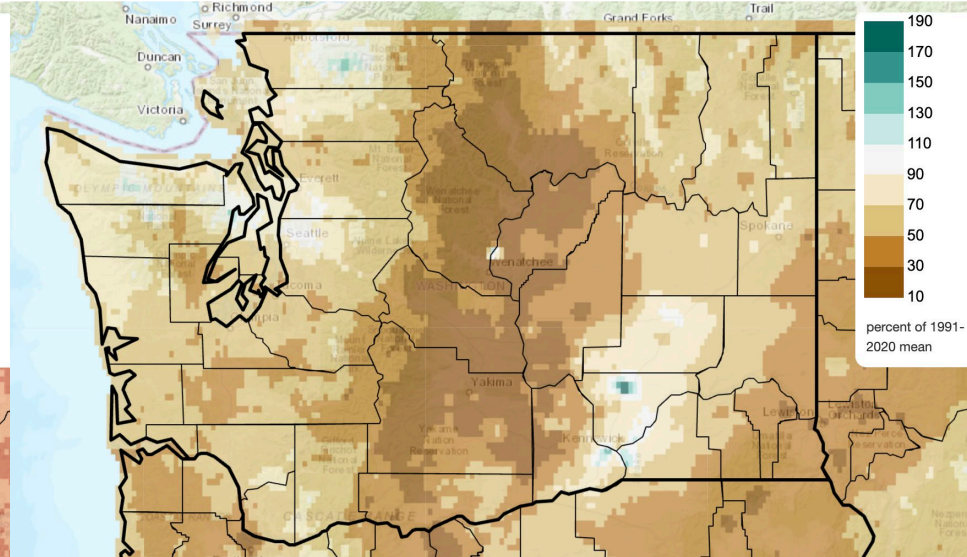
2025/05/01 - 2025/05/31



Precipitation

Total Precipitation Anomaly, Last Full Month

2025/05/01 - 2025/05/31



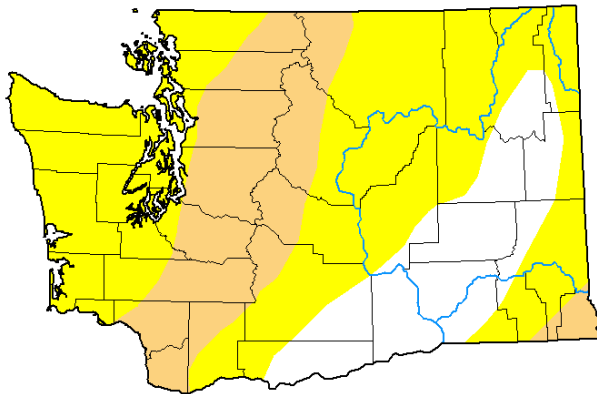
[Climate Toolbox](#)

- Averaged statewide, May temperatures were near normal ($+0.3^{\circ}\text{F}$)*
- Averaged statewide, May precipitation was below normal (60% of normal), ranking as the 26th driest

*Records since 1895; Normal is 1991-2020

U.S. Drought Monitor

U.S. Drought Monitor Washington

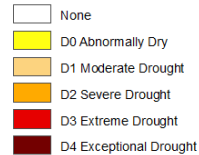


June 10, 2025

(Released Thursday, Jun. 12, 2025)

Valid 8 a.m. EDT

Intensity:



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>

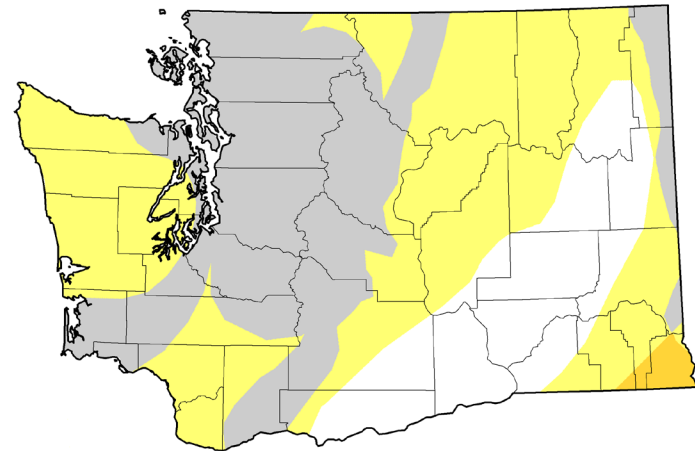
Author:

Lindsay Johnson
National Drought Mitigation Center



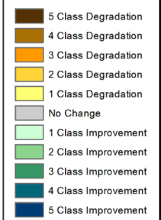
droughtmonitor.unl.edu

U.S. Drought Monitor Class Change - Washington 5 Week



June 10, 2025
compared to
May 6, 2025

droughtmonitor.unl.edu



Current Status: Neutral

No ENSO Alert

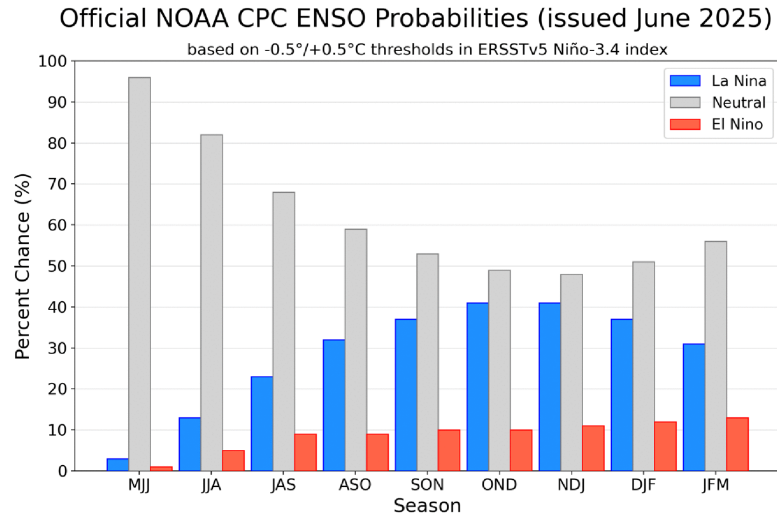
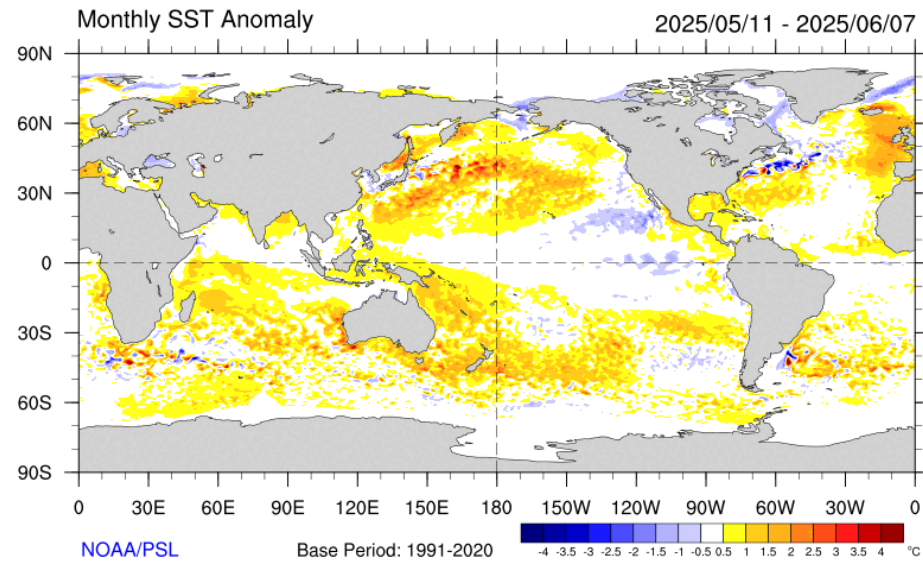


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index (5°N - 5°S , 120°W - 170°W). Figure updated 12 June 2025.



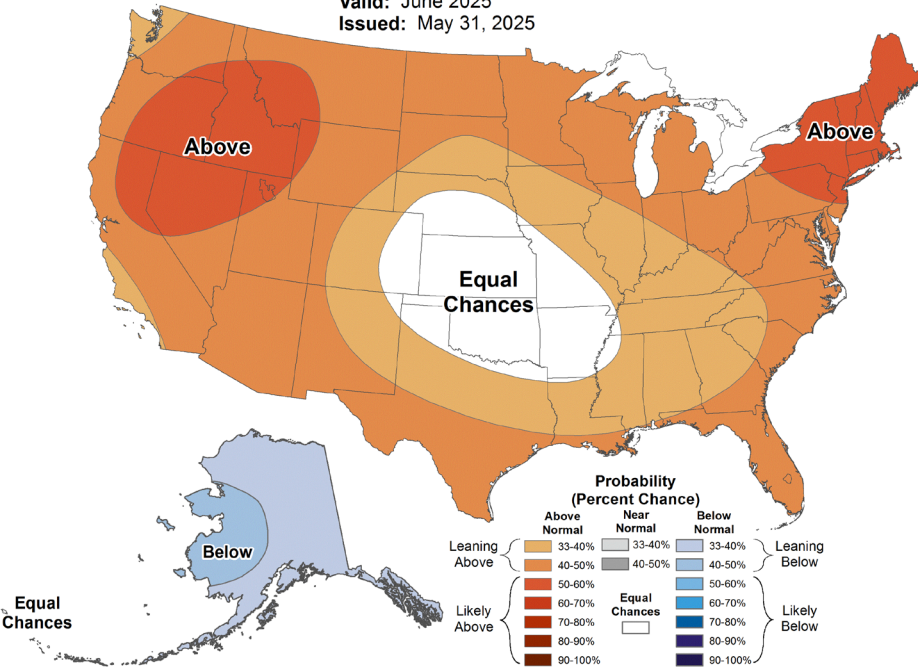
Climate Prediction Center: June Outlook



Monthly Temperature Outlook



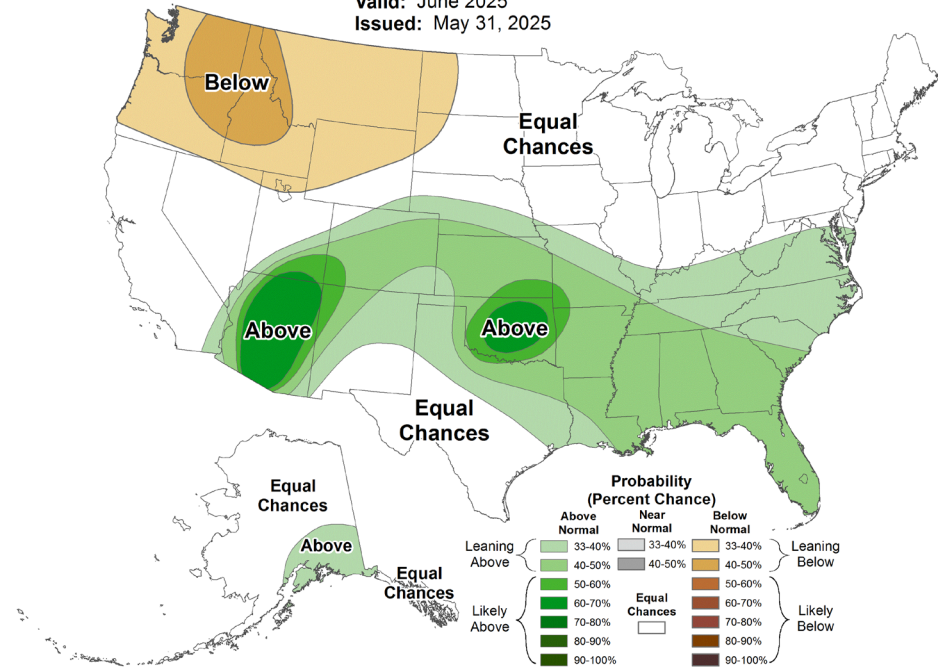
Valid: June 2025
Issued: May 31, 2025



Monthly Precipitation Outlook



Valid: June 2025
Issued: May 31, 2025

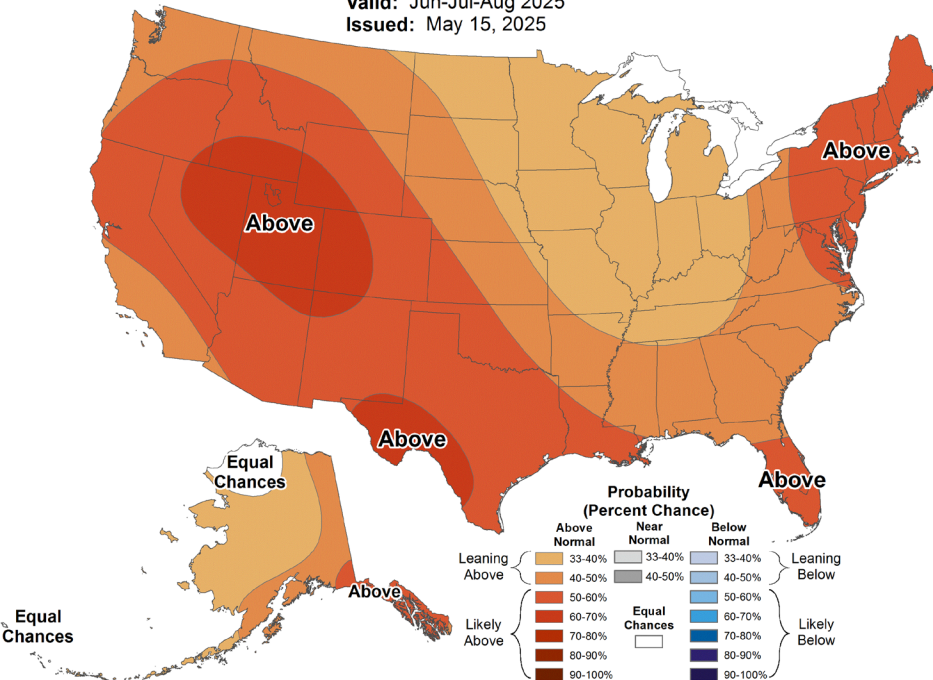


Climate Prediction Center Outlook: Jun-Aug



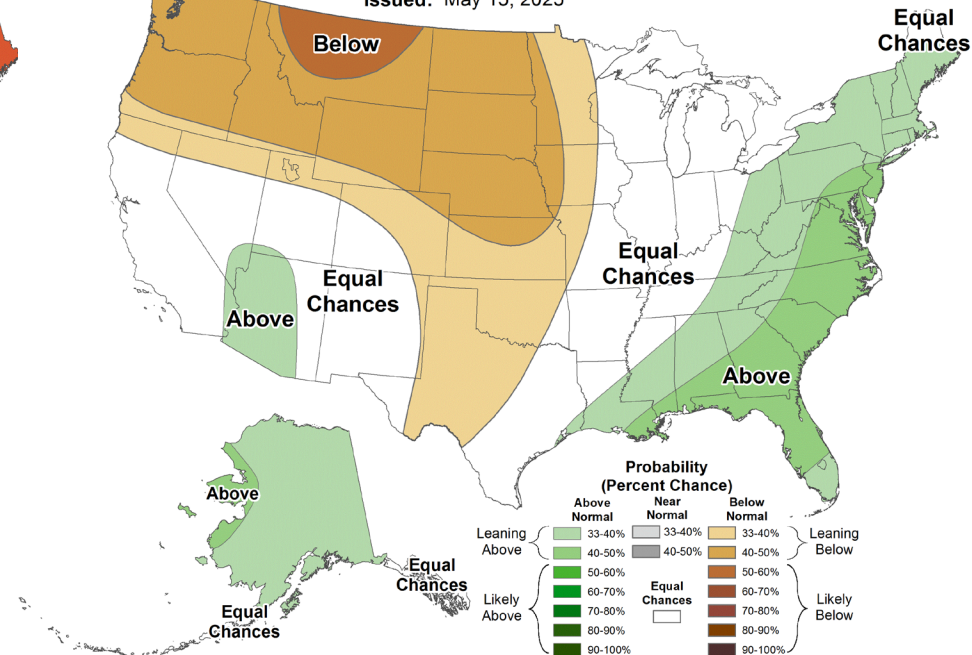
Seasonal Temperature Outlook

Valid: Jun-Jul-Aug 2025
Issued: May 15, 2025



Seasonal Precipitation Outlook

Valid: Jun-Jul-Aug 2025
Issued: May 15, 2025



Aug-Oct: Higher odds of above normal temperatures; uncertain for precipitation

Summary

- Averaged statewide, water year temperatures have been slightly above normal and precipitation has been near-normal
 - Regional variations: water year precipitation has been below normal for western WA, including the Cascade Mountains
- Drier than normal conditions continued for May
- Averaged statewide, Jan-May precipitation ranked as the 16th driest on record
- La Niña or neutral are more likely outcomes for next winter; no impact on our summer weather
- There are higher chances of a warmer and drier than normal June and June-July-August period



**USDA Natural Resources Conservation Service
Snow Survey and Water Supply Forecasting Program**

**Washington
Water Supply Availability Committee**

June 12, 2025

Matt Warbritton
Supervisory Hydrologist
USDA NRCS SSWSF
Portland Data Collection Office
matt.warbritton@usda.gov
503-307-2829

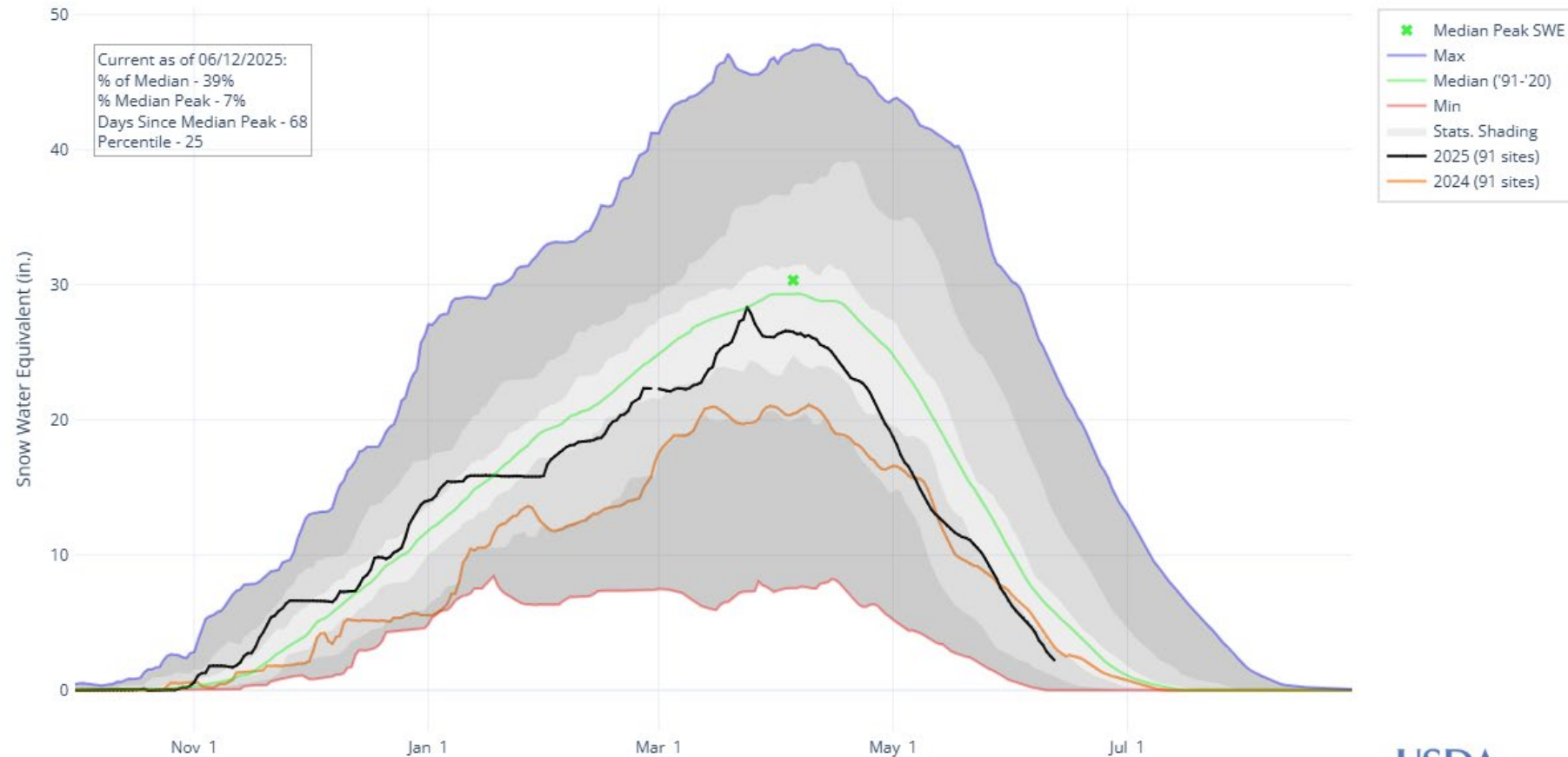


Snowpack Conditions

Statewide Snow Water Equivalent (SWE)

Seasonal Profile for SWE

SNOW WATER EQUIVALENT IN STATE OF WASHINGTON



Statewide Snowpack:
39% of Normal

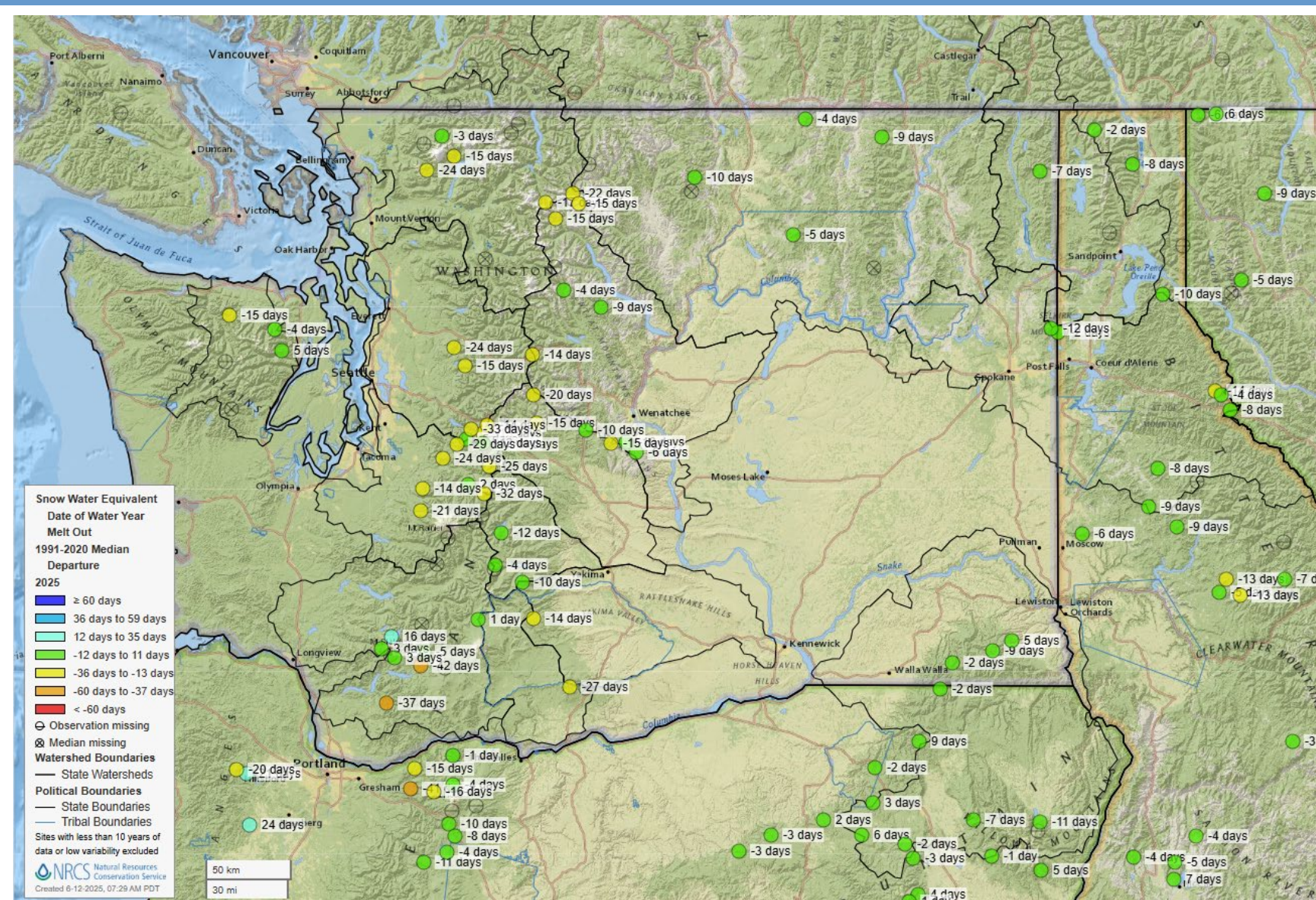
25th Percentile

Median date for peak snowpack:
Apr. 5

WY 2025 peak snowpack:
Mar. 24

Date of WY Snow Melt-Out

1991-2020 Median Departure



Notable Melt-Out Timing

Swamp Creek SNOTEL -22 days

Fish Lake SNOTEL -20 days

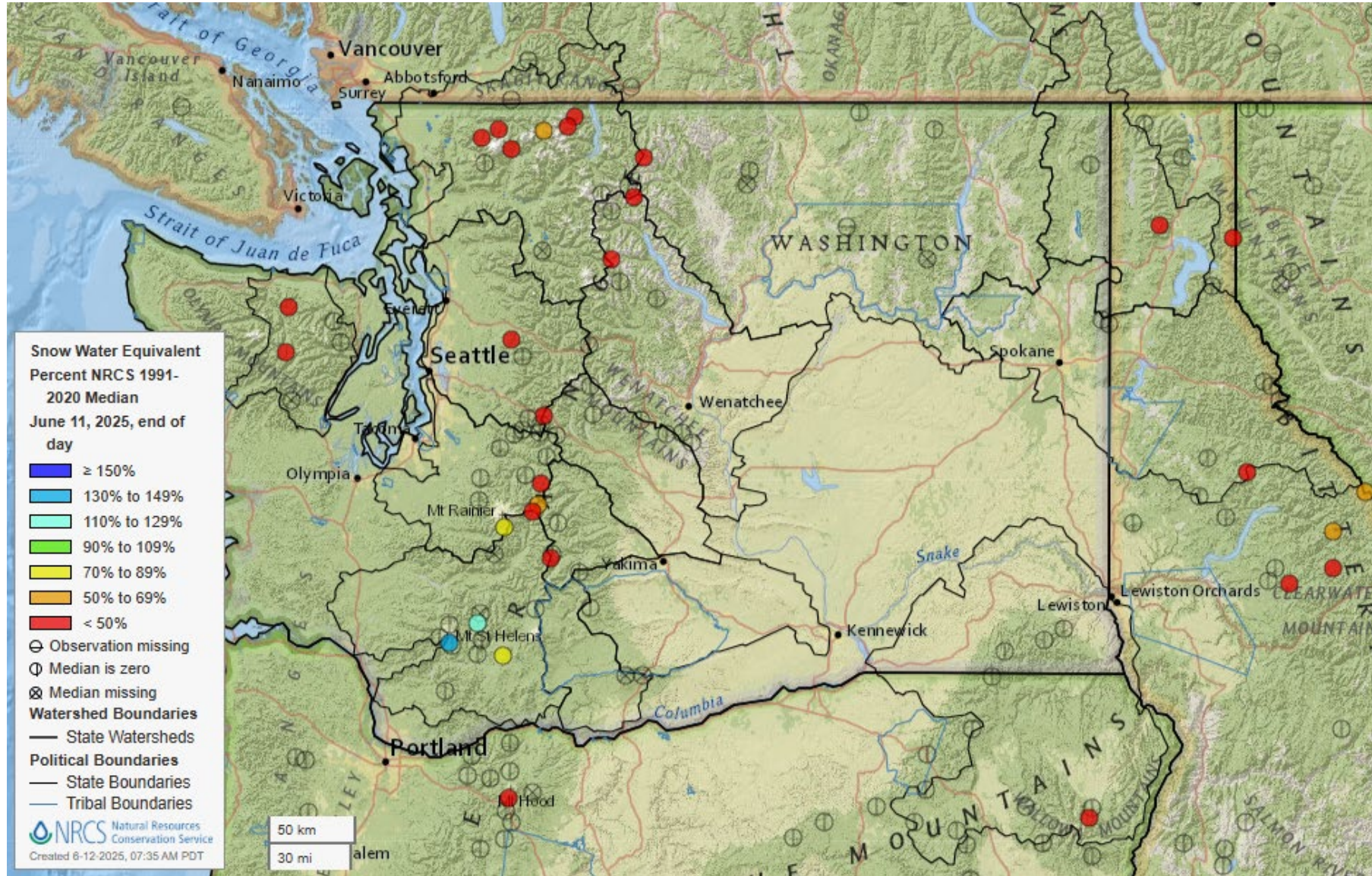
Corral Pass SNOTEL -32 days

Grouse Camp SNOTEL -15 days

June Lake SNOTEL +3 days

SWE in Washington

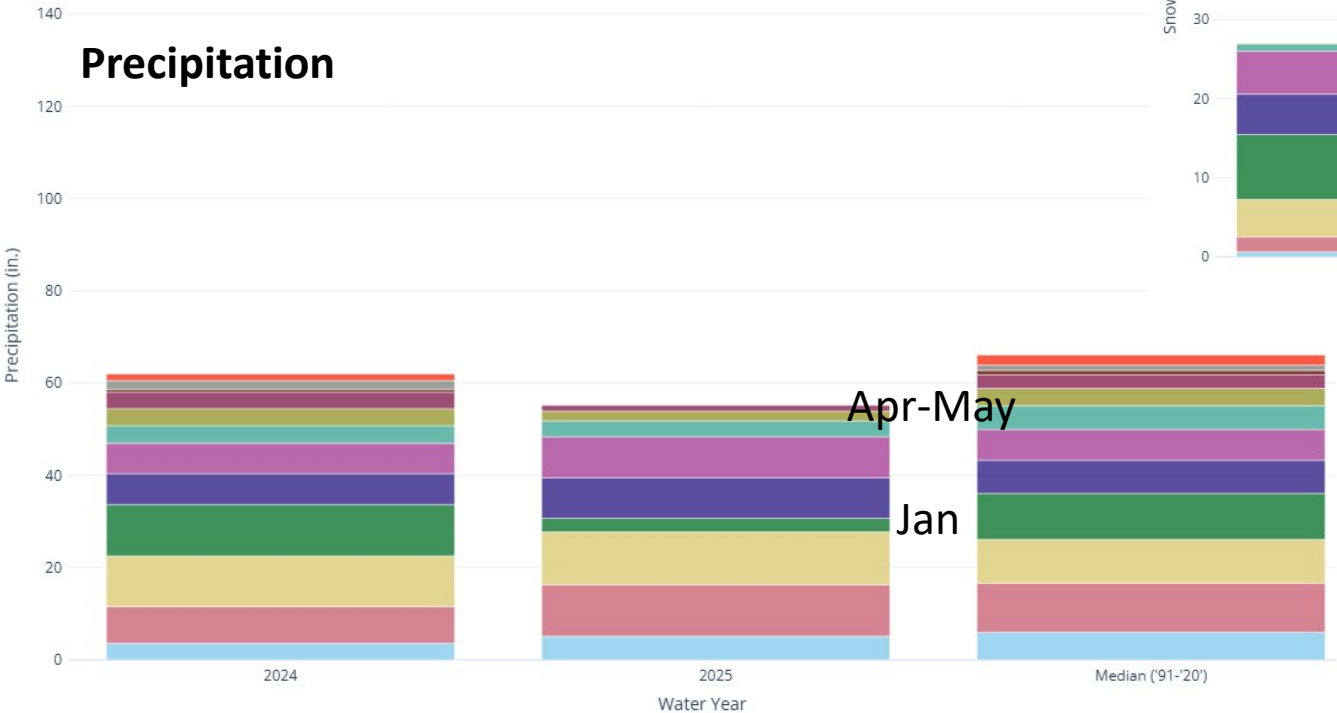
% of Normal (1991-2020 median)



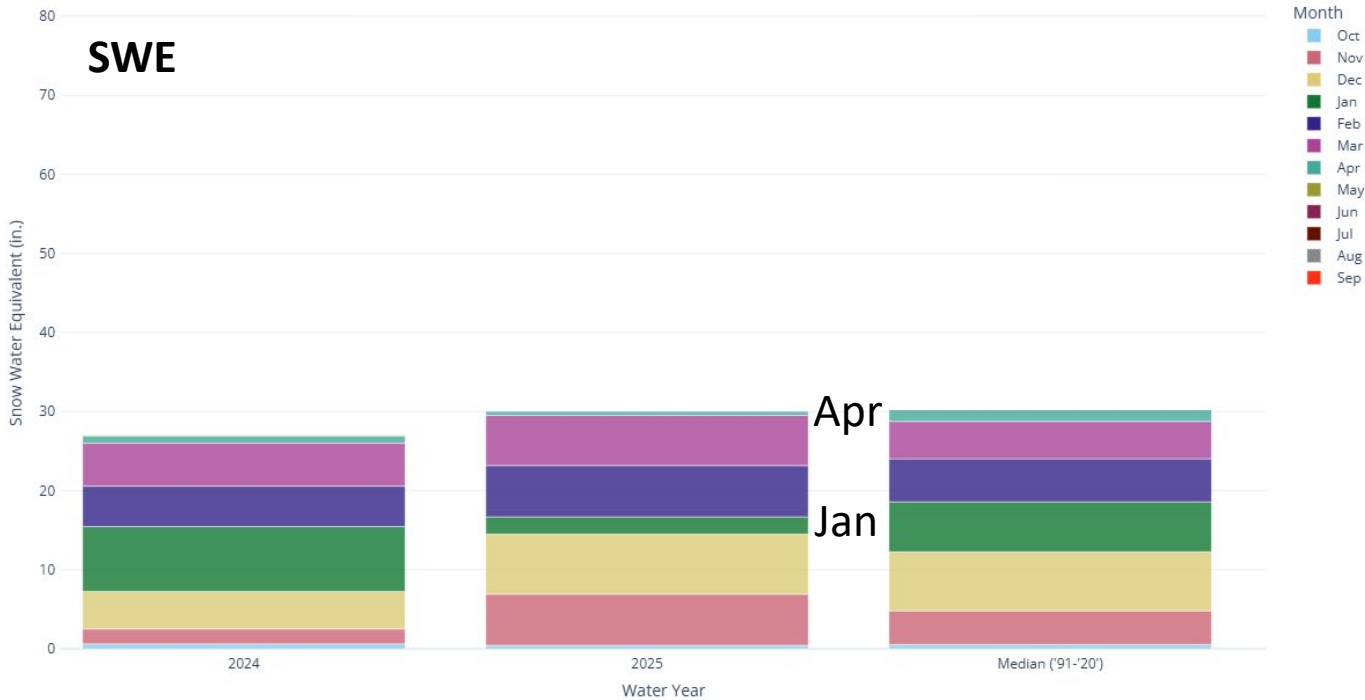
Monthly SWE and Precipitation Summary

WY 2024 and 2025 vs. Median (1991-2020)

STATE OF WASHINGTON MONTHLY PRECIPITATION SUMMARY



STATE OF WASHINGTON MONTHLY SNOW WATER EQUIVALENT SUMMARY

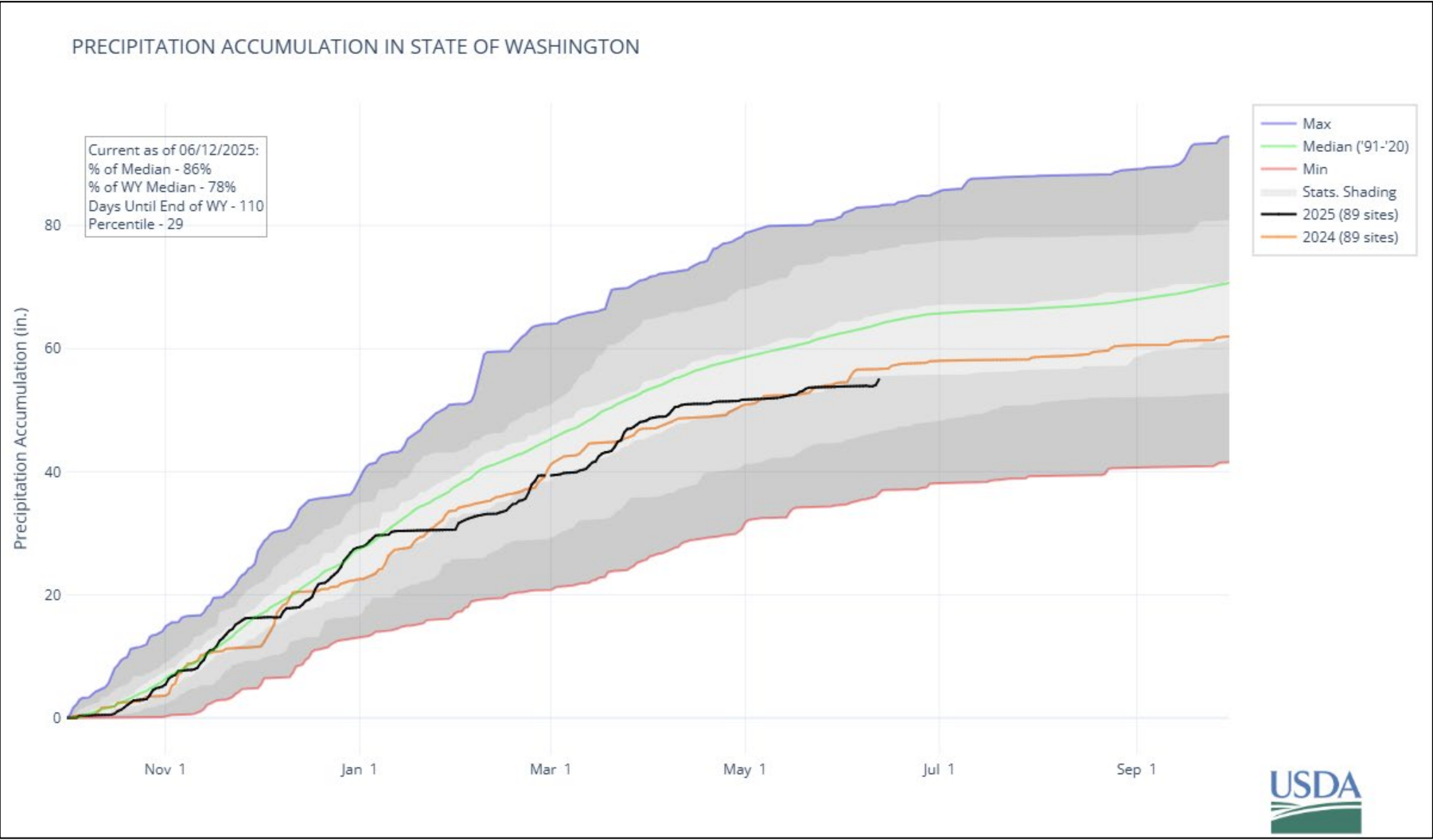




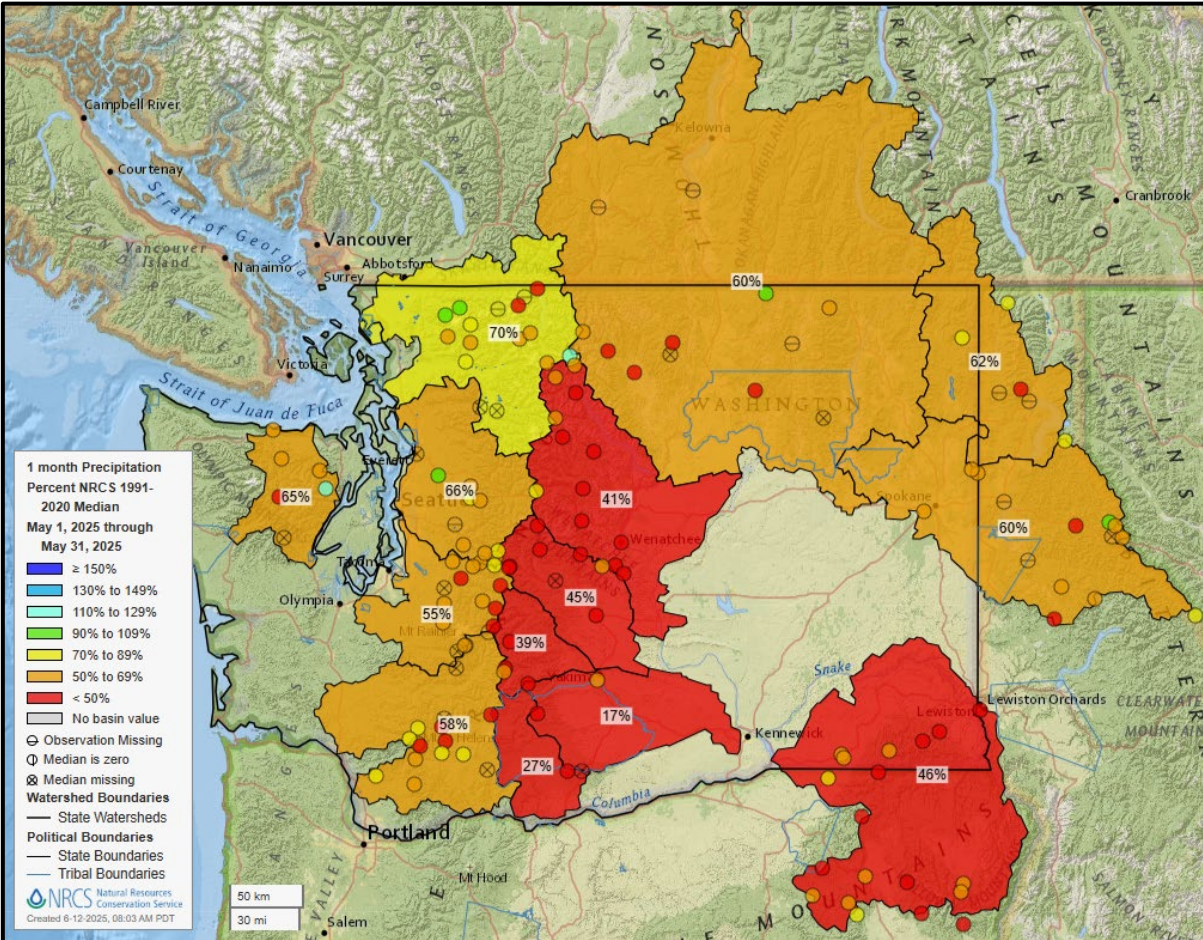
Precipitation Conditions

Statewide WYTD Precipitation

Statewide WYTD Precipitation:
86% of normal
29th Percentile

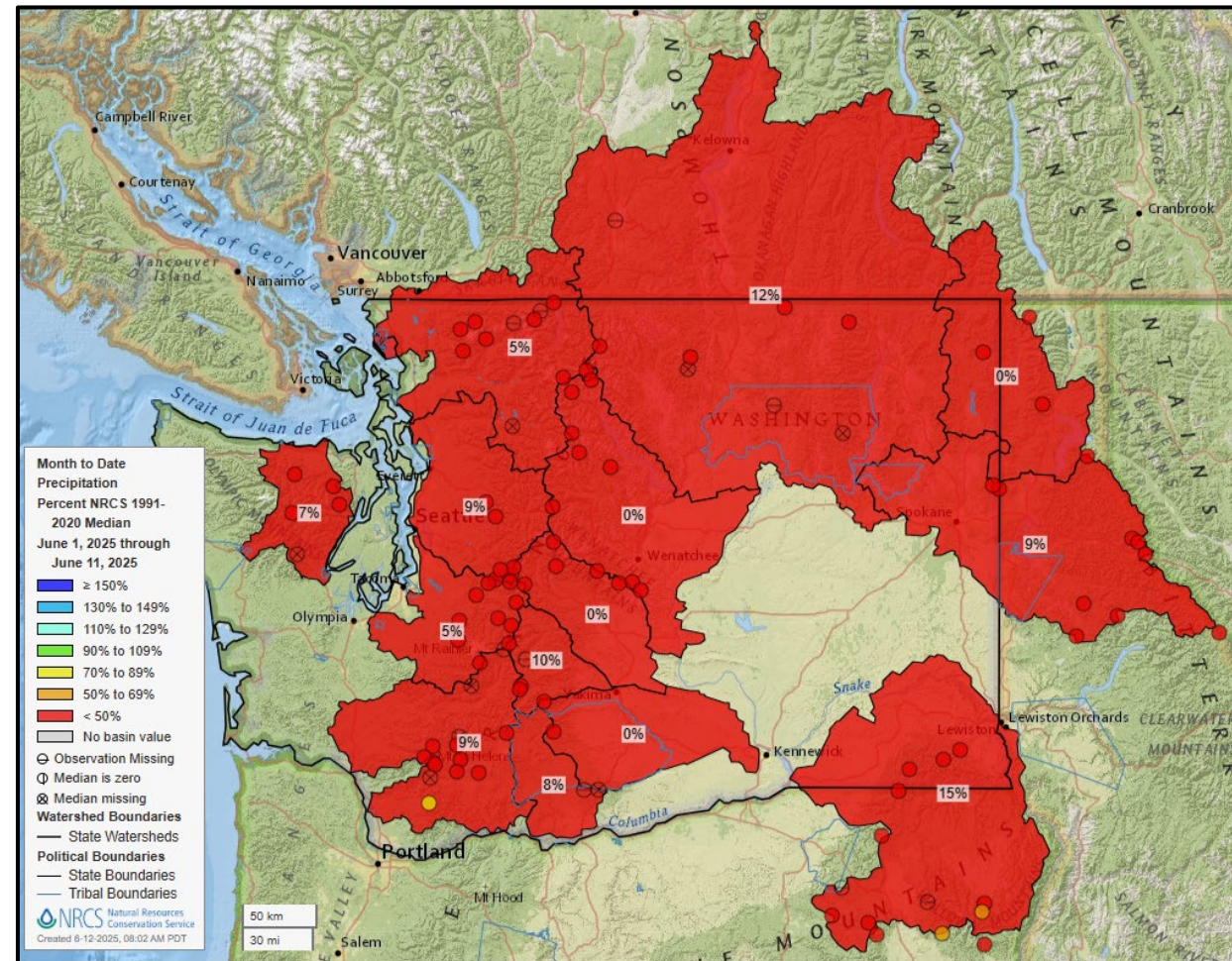


Month-to-Date Precipitation



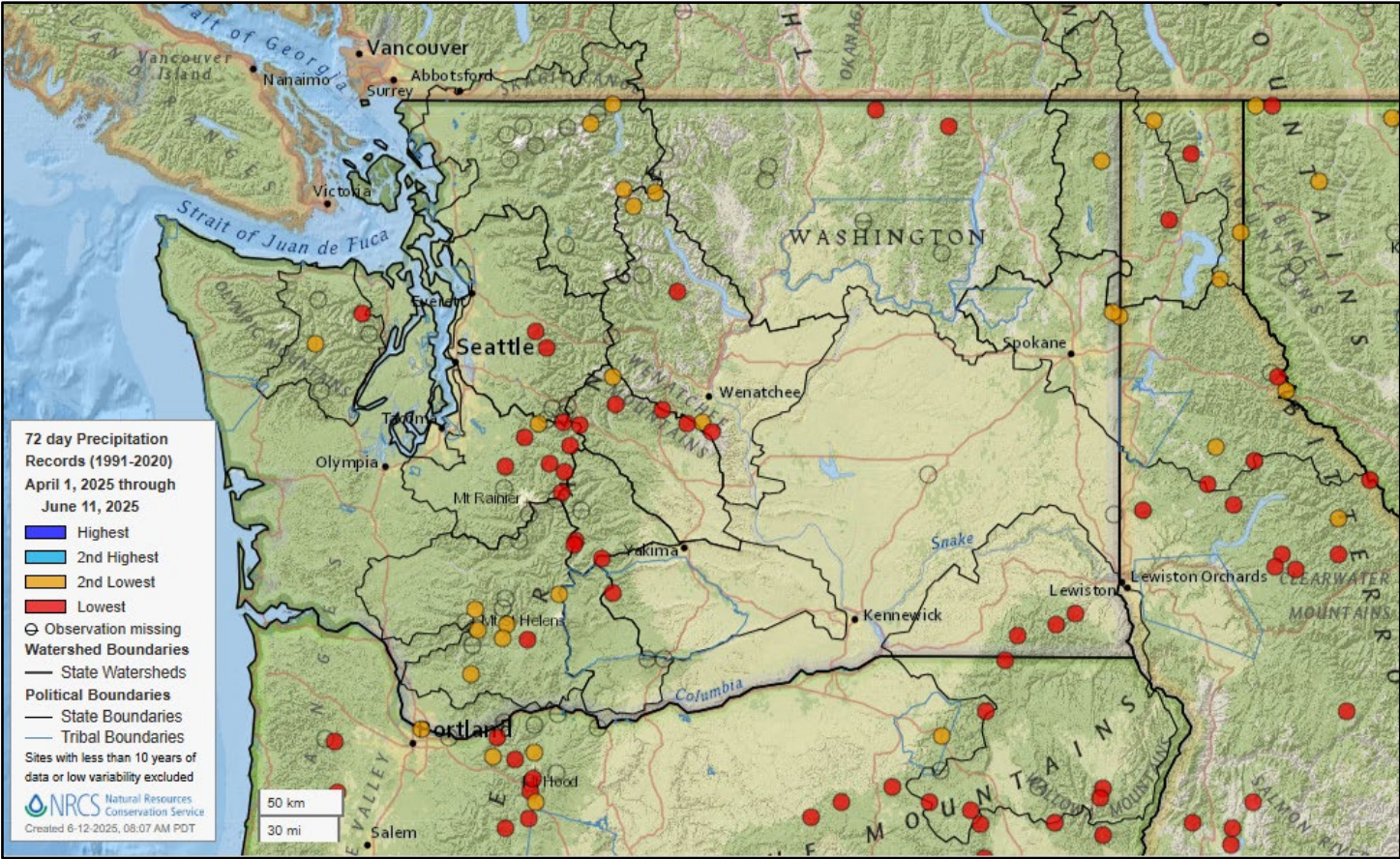
May

Month-to-Date



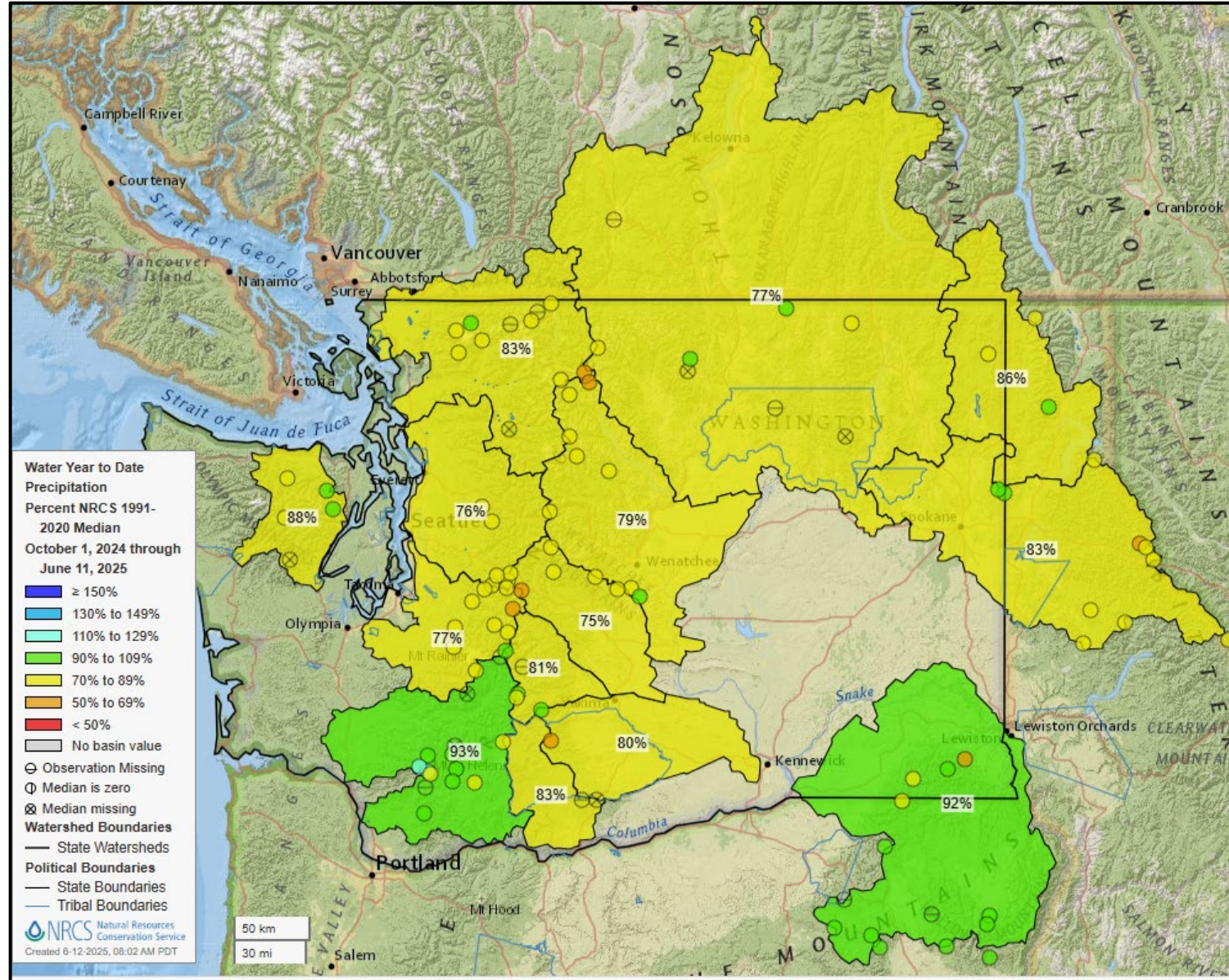
Spring and Early Summer Precipitation

April 1 to June 11 Records



WYTD Precipitation

% of Normal



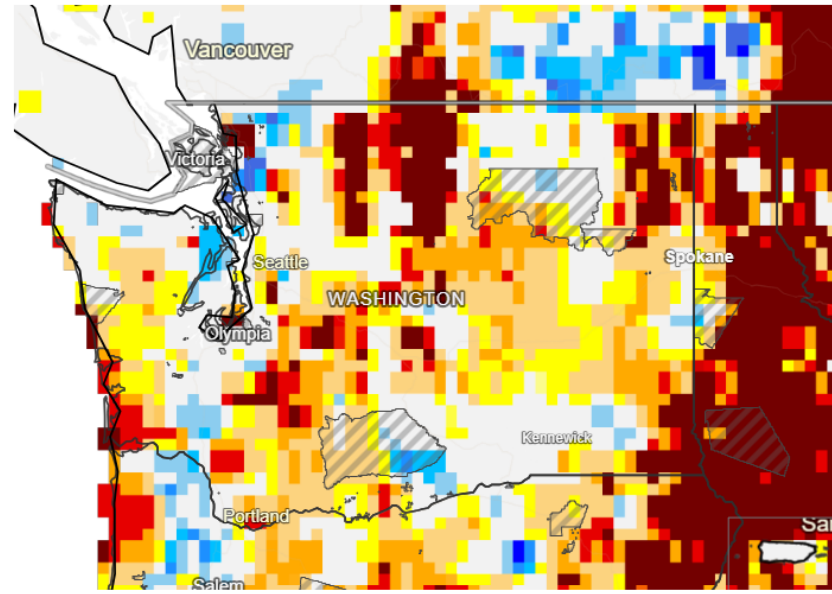


Soil Moisture

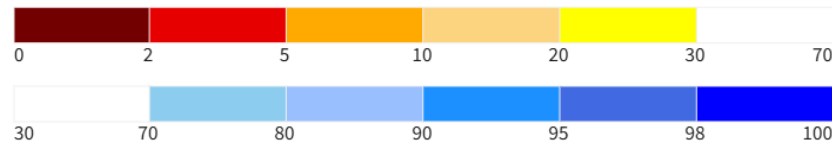
Soil Moisture

NASA GRACE and SPoRT-LiS

Root Zone



Root Zone Soil Moisture: Wetness Percentile



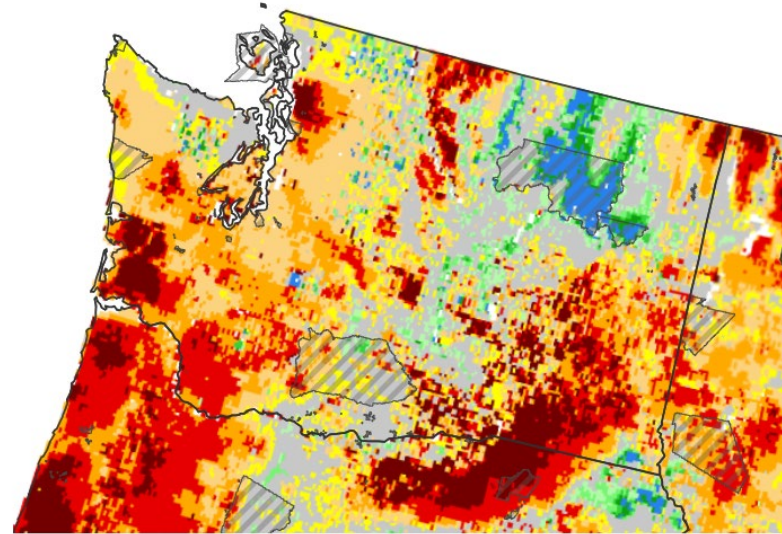
Tribal Nations

Tribal Nation Boundaries

Last Updated: 06/07/25

Drought.gov

0-100 cm Soil Moisture Percentile



0-100 cm Soil Moisture Percentile



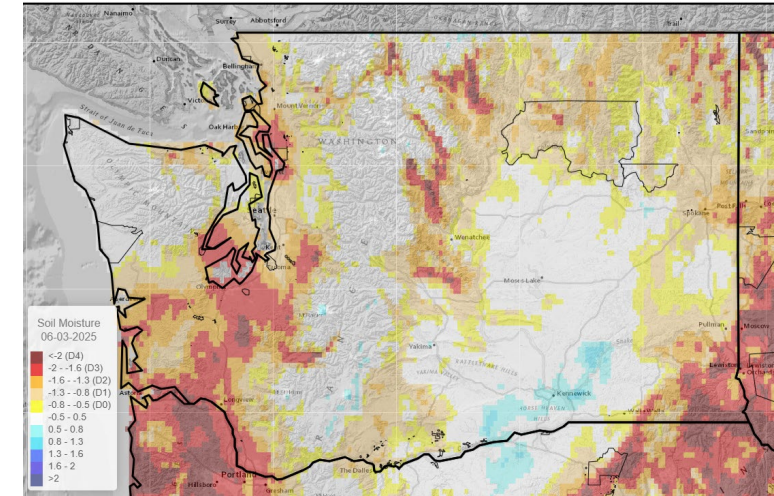
Tribal Nations

Tribal Nation Boundaries

Source(s): NASA
Data Valid: 06/11/25

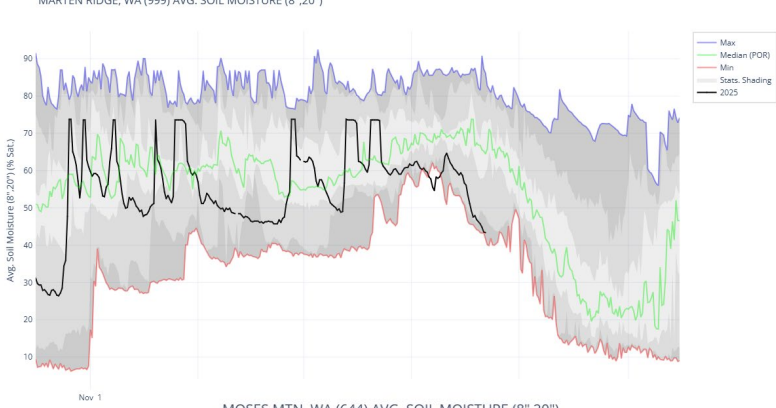
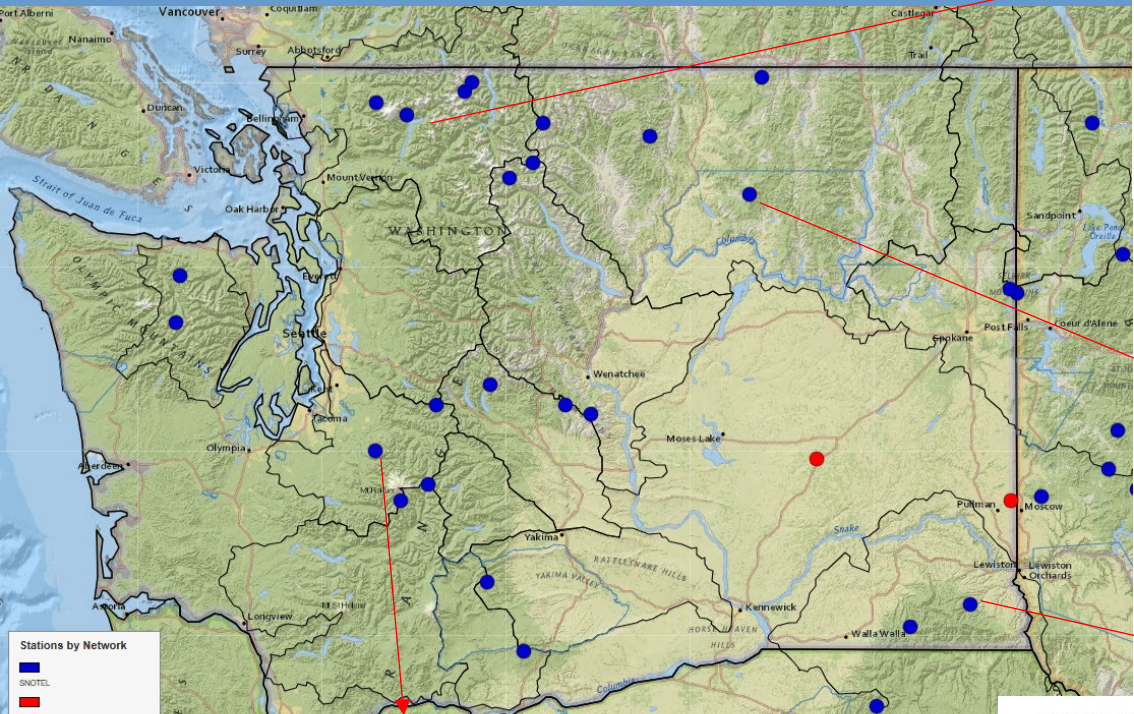
Drought.gov

Topofire Soil Moisture for 06-03-2025

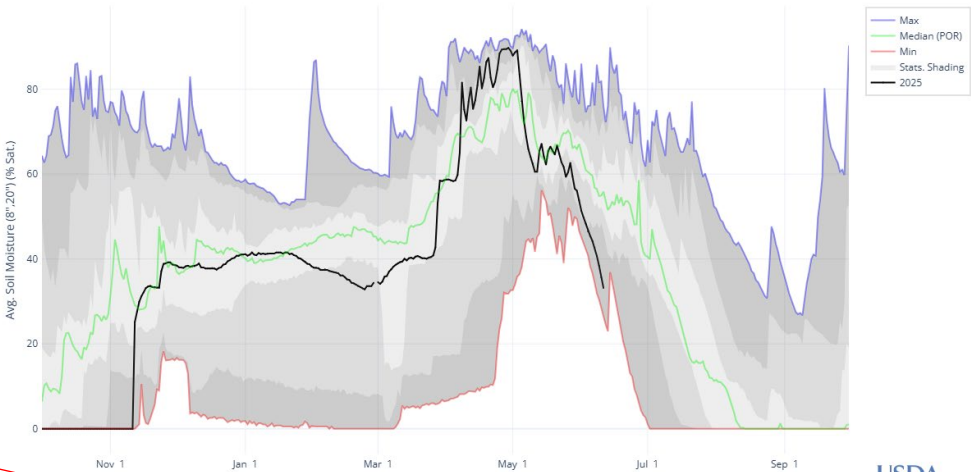


Soil Moisture

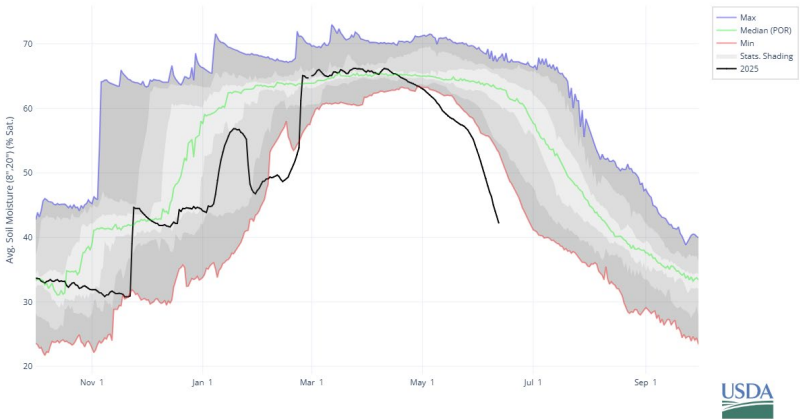
SNOTEL Data



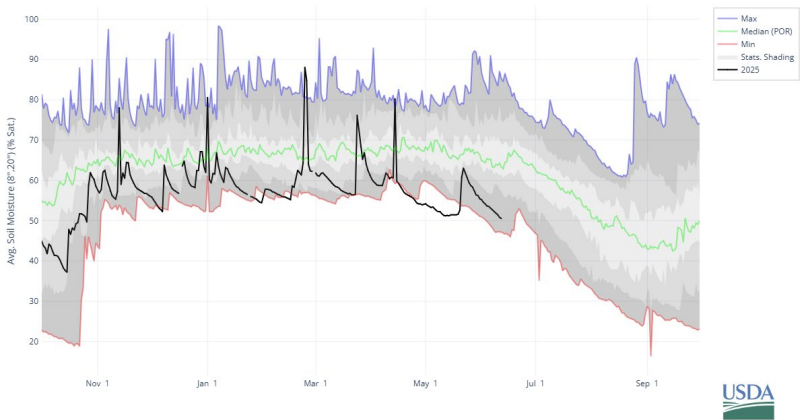
MOSES MTN, WA (644) AVG. SOIL MOISTURE (8",20")



SOURDOUGH GULCH, WA (985) AVG. SOIL MOISTURE (8",20")



BURNT MOUNTAIN, WA (942) AVG. SOIL MOISTURE (8",20")

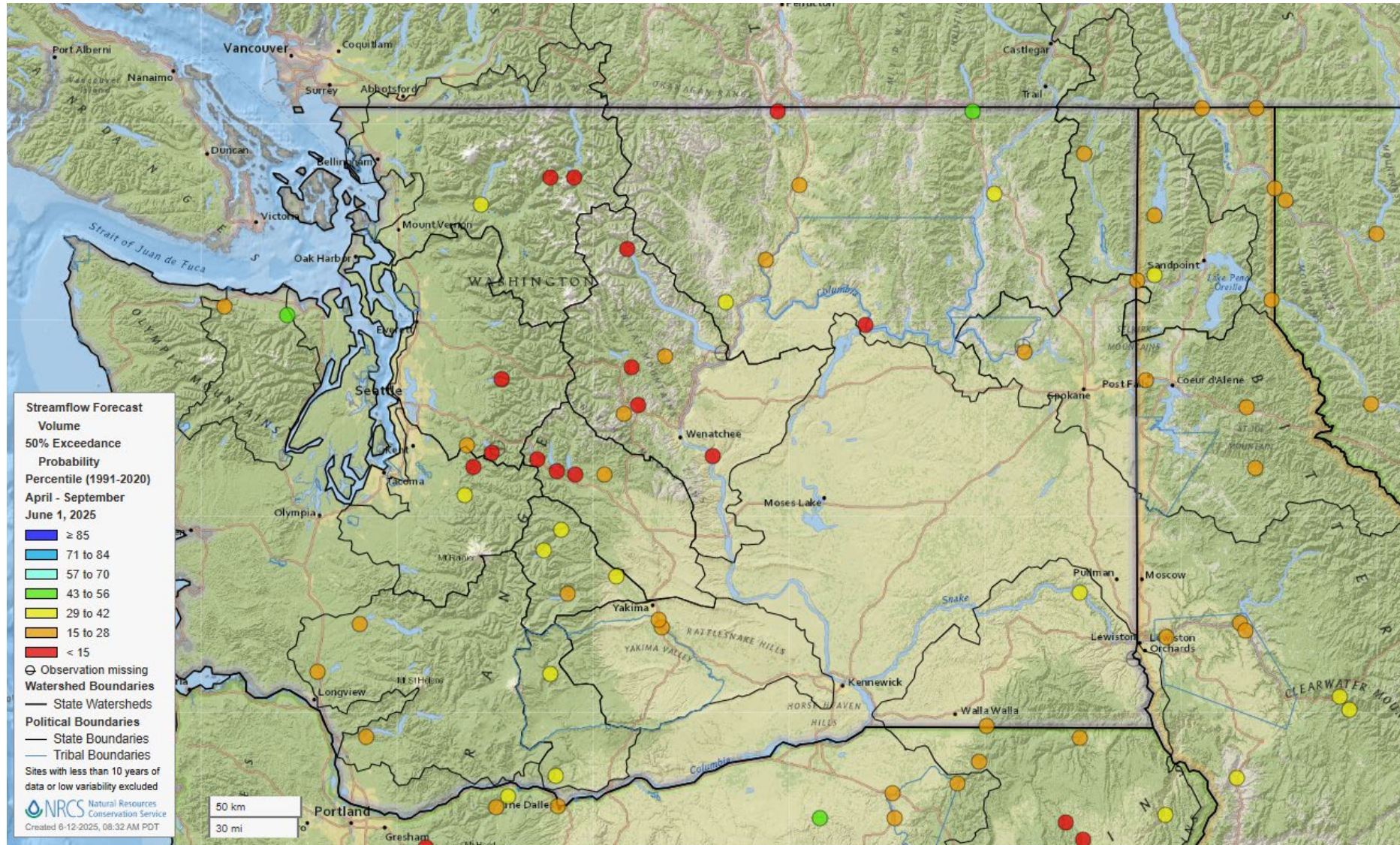




Water Supply Outlook as of June 1

Water Supply Forecasts

May 1 (May-July, May-September)



Thank you!

Matt Warbritton
Supervisory Hydrologist
USDA NRCS SSWSF
Portland Data Collection Office
matt.warbritton@usda.gov
503-307-2829

[Washington Snow Survey and Water
Supply Program Website](#)

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.

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Streamflow & Groundwater Conditions in Washington State as of 11 June 2025



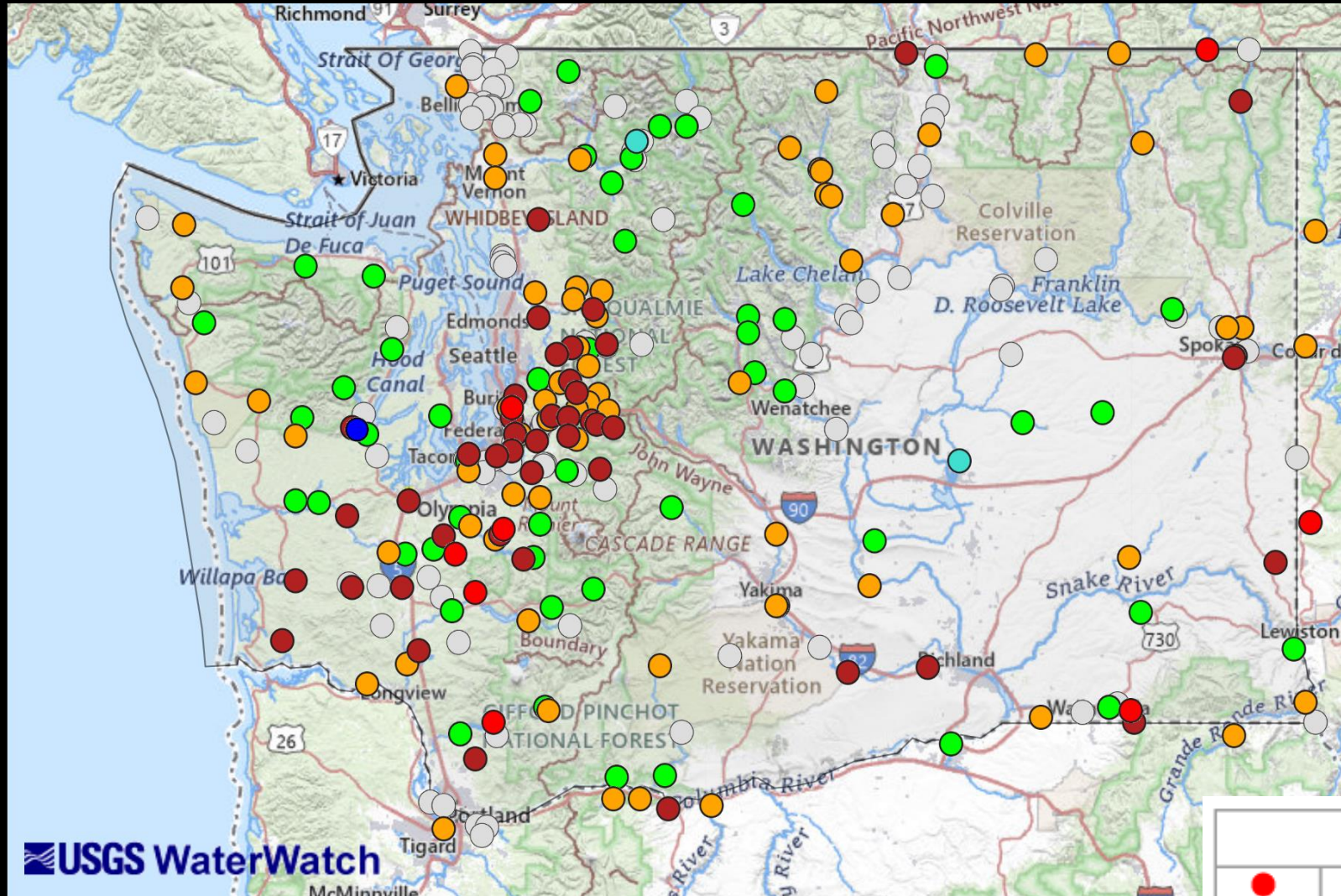
Presented on 12 June 2025
to the Washington Water Supply
Availability Committee
by Nicholas Sutfin,
nsutfin@usgs.gov
USGS Washington Water
Science Center

This information is preliminary and is subject to revision. It is being provided to meet the need for timely best science. The information is provided on the condition that neither the U.S. Geological Survey nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information.

Photo by Joe Gilbert: Wilson Overby conducting discharge measurements at Chelan River at Chelan, WA (12452500).

7-day Average Streamflow








Conditions as of 11 June 2025



Preliminary Information-
Subject to Revision. Not for
Citation or Distribution.

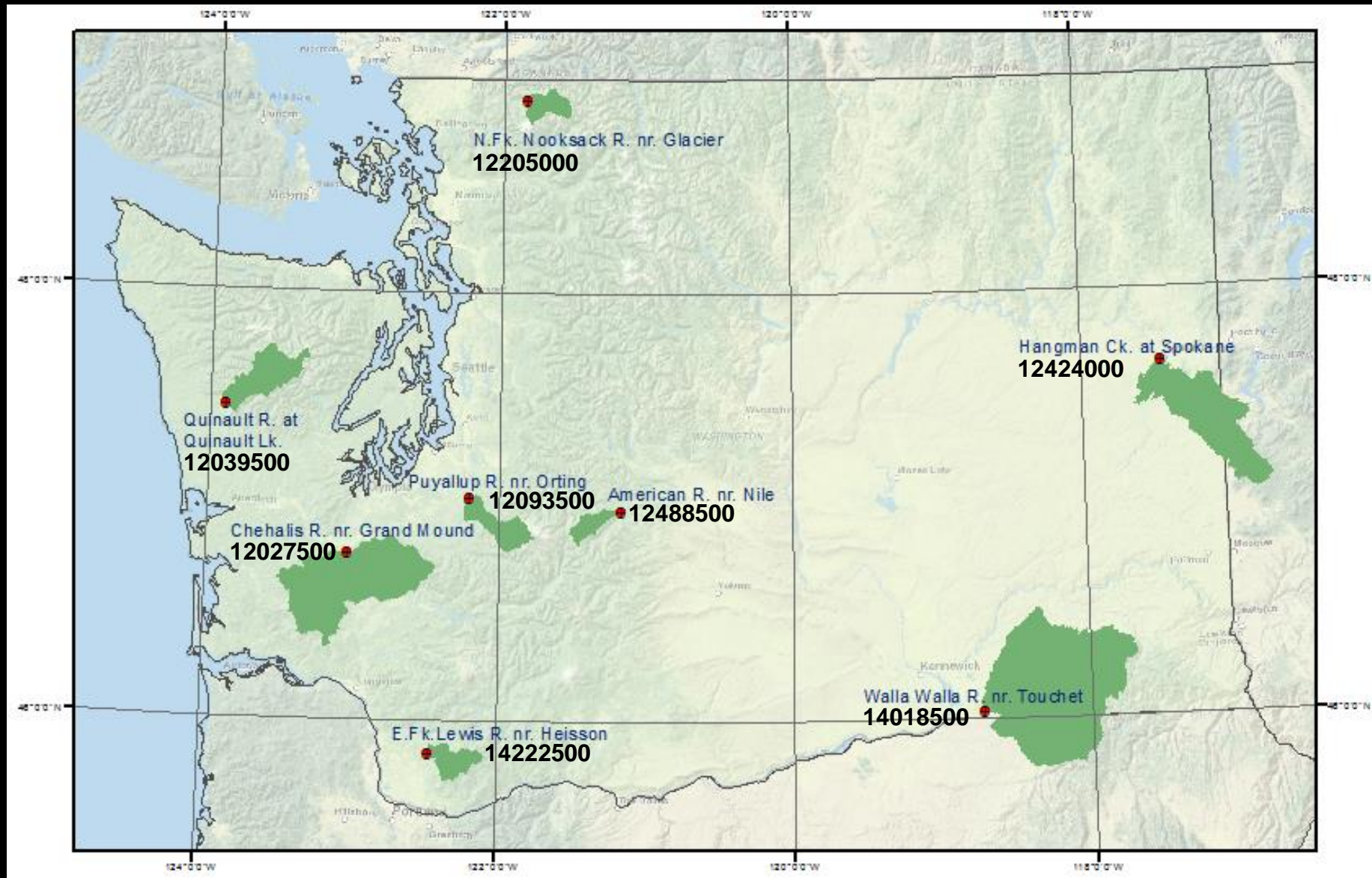
WaterWatch is scheduled
to be discontinued in 2026

Explanation - Percentile classes

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

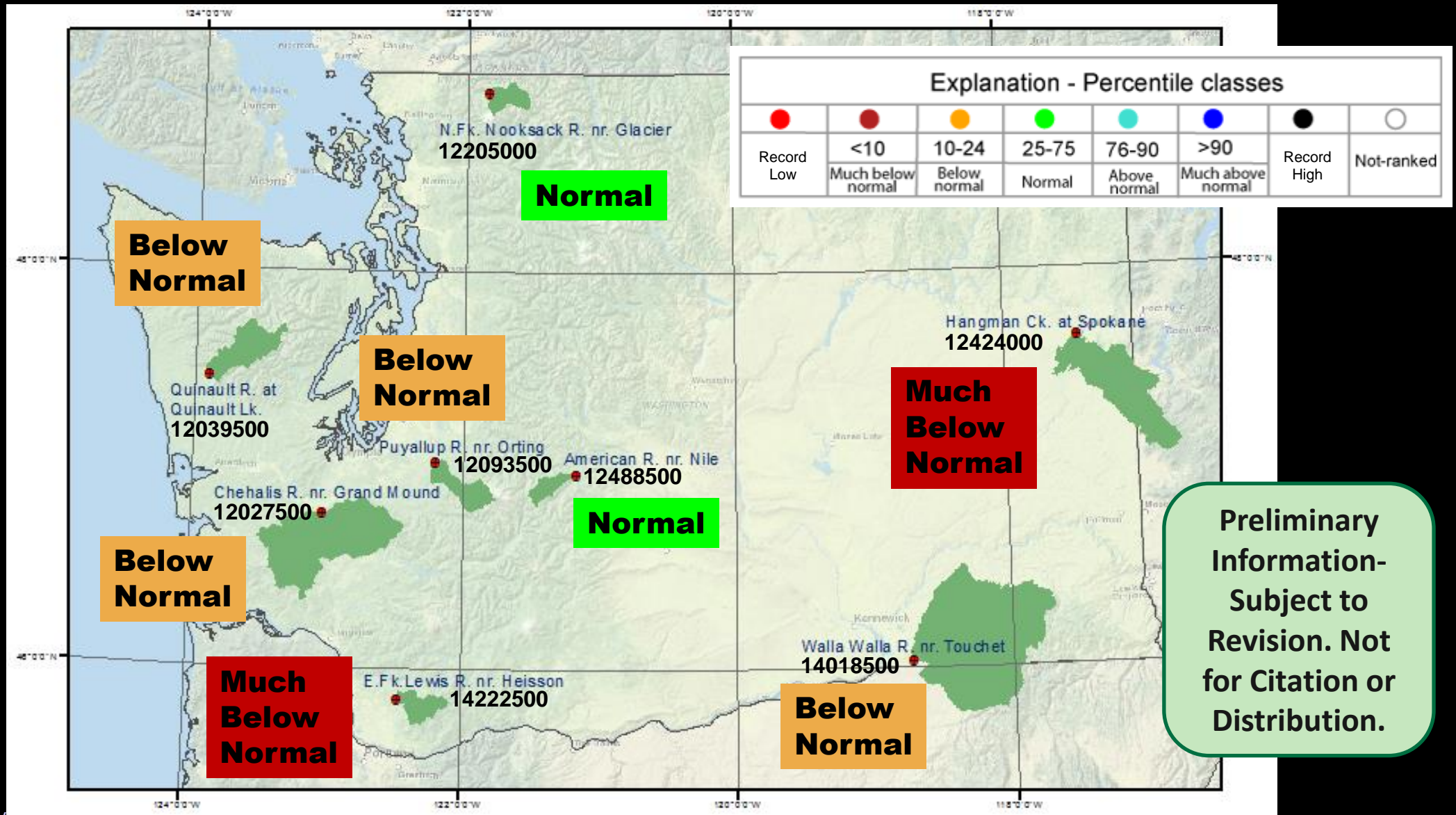
Index Gaging Stations

(Stations that measure natural or near-natural streamflow)



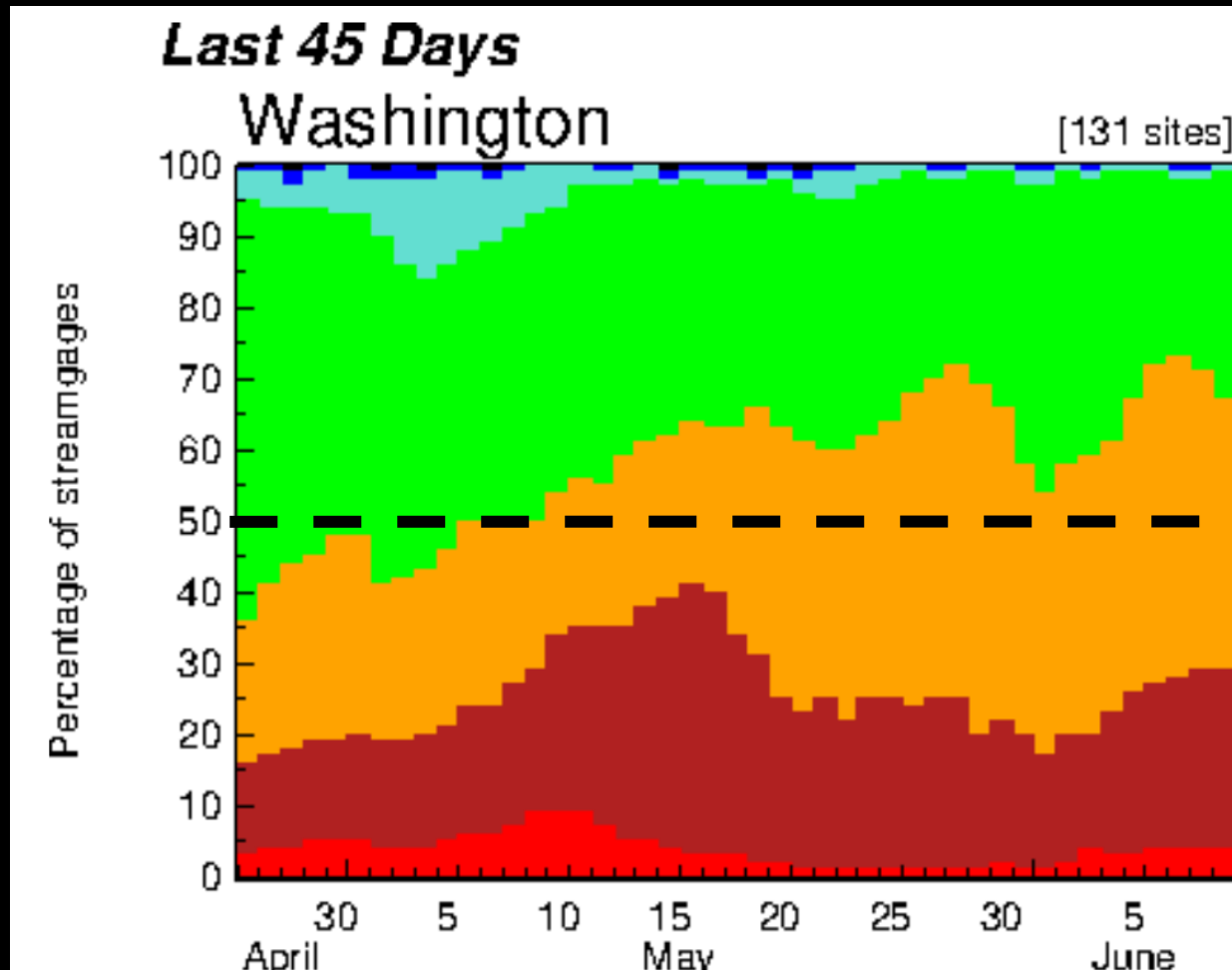
Index Gaging Stations

7-day average streamflow as of 11 June 2025

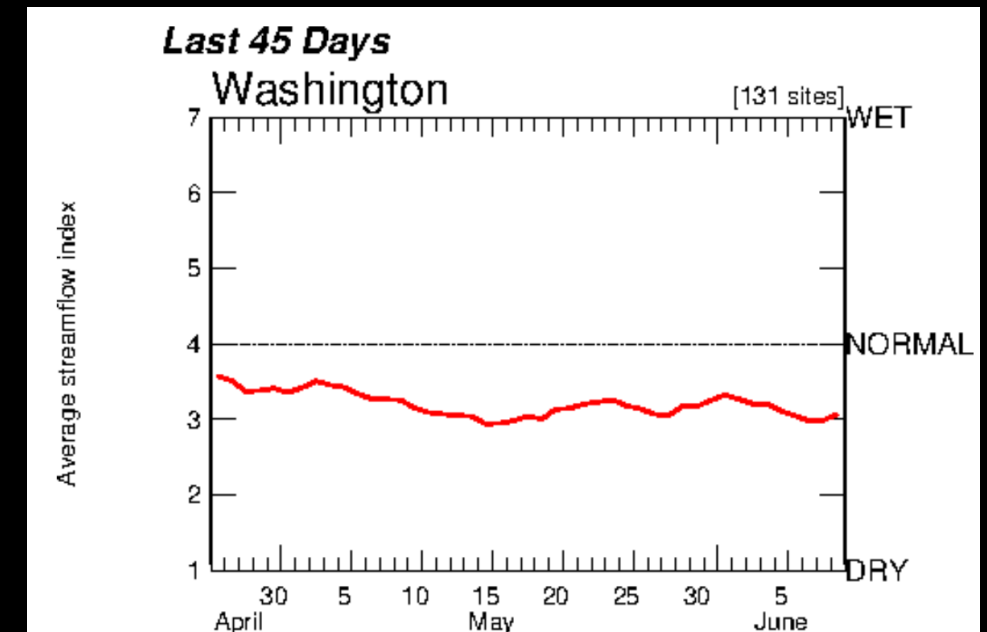


7-day average streamflow

Most USGS stream gages **below normal** as of 11 June 2025



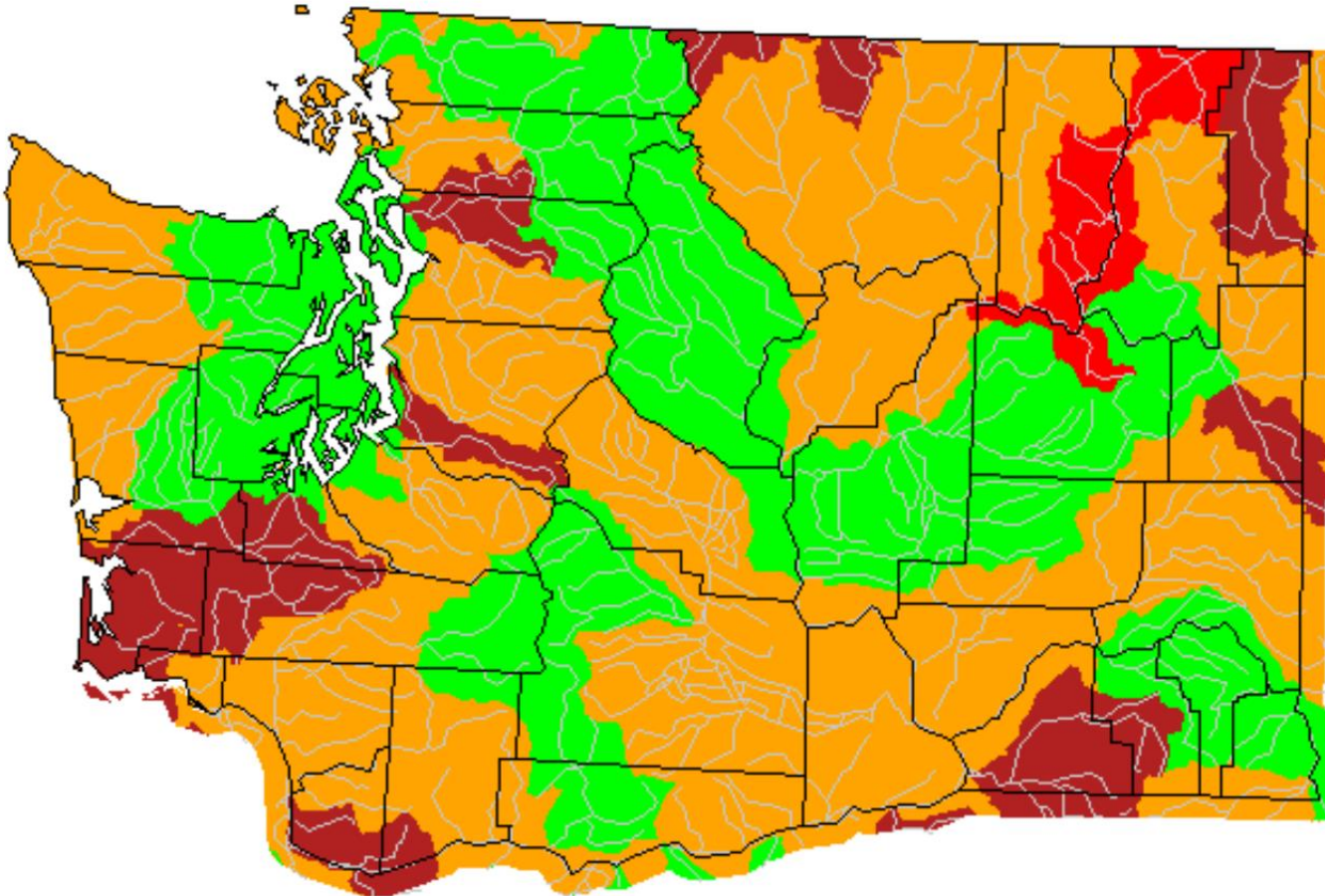
Preliminary Information-Subject to Revision.
Not for Citation or Distribution.



| Explanation - Percentile classes | | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|-------------|
| | | | | | | |
| Record Low | <10 | 10-24 | 25-75 | 76-90 | >90 | Record High |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | |

Average streamflow compared to historical streamflow

Current area-weighted 7-day average



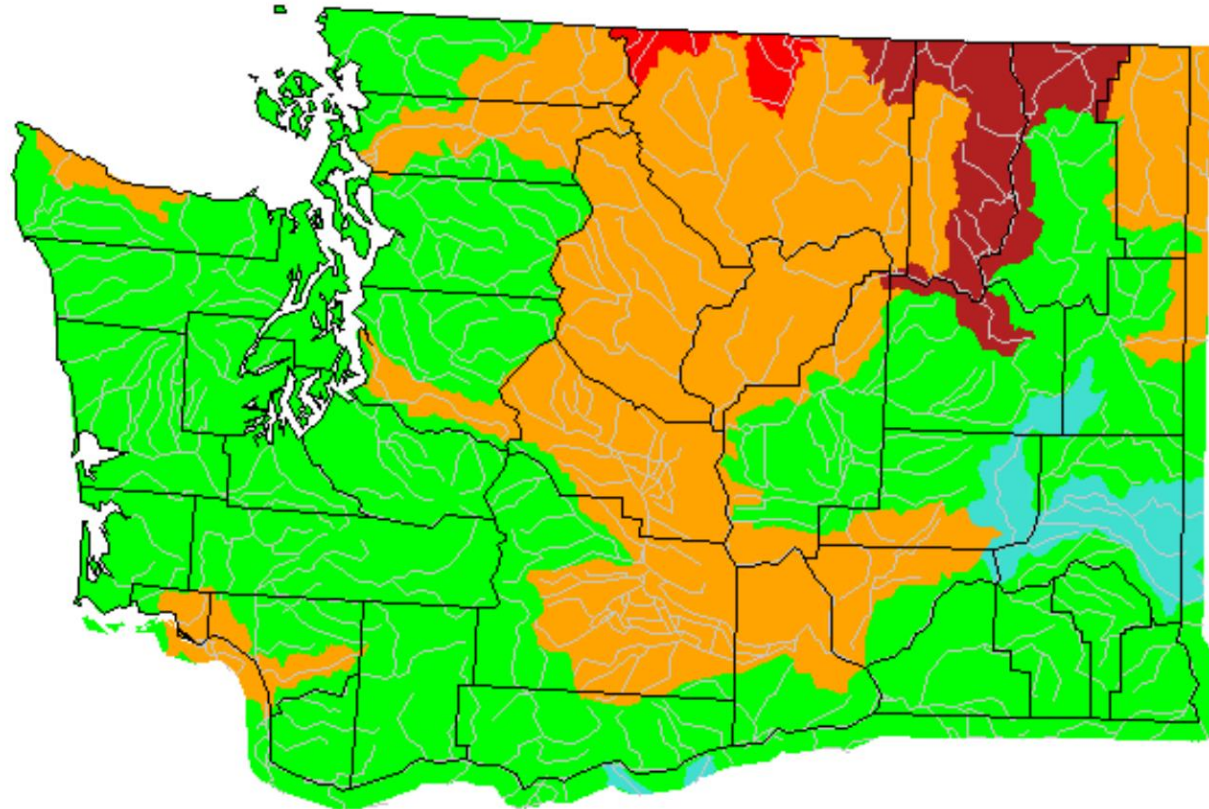
| Explanation - Percentile classes | | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|-------------|
| | | | | | | |
| Record Low | <10 | 10-24 | 25-75 | 76-90 | >90 | Record High |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | |

**Preliminary Information-
Subject to Revision. Not for
Citation or Distribution.**

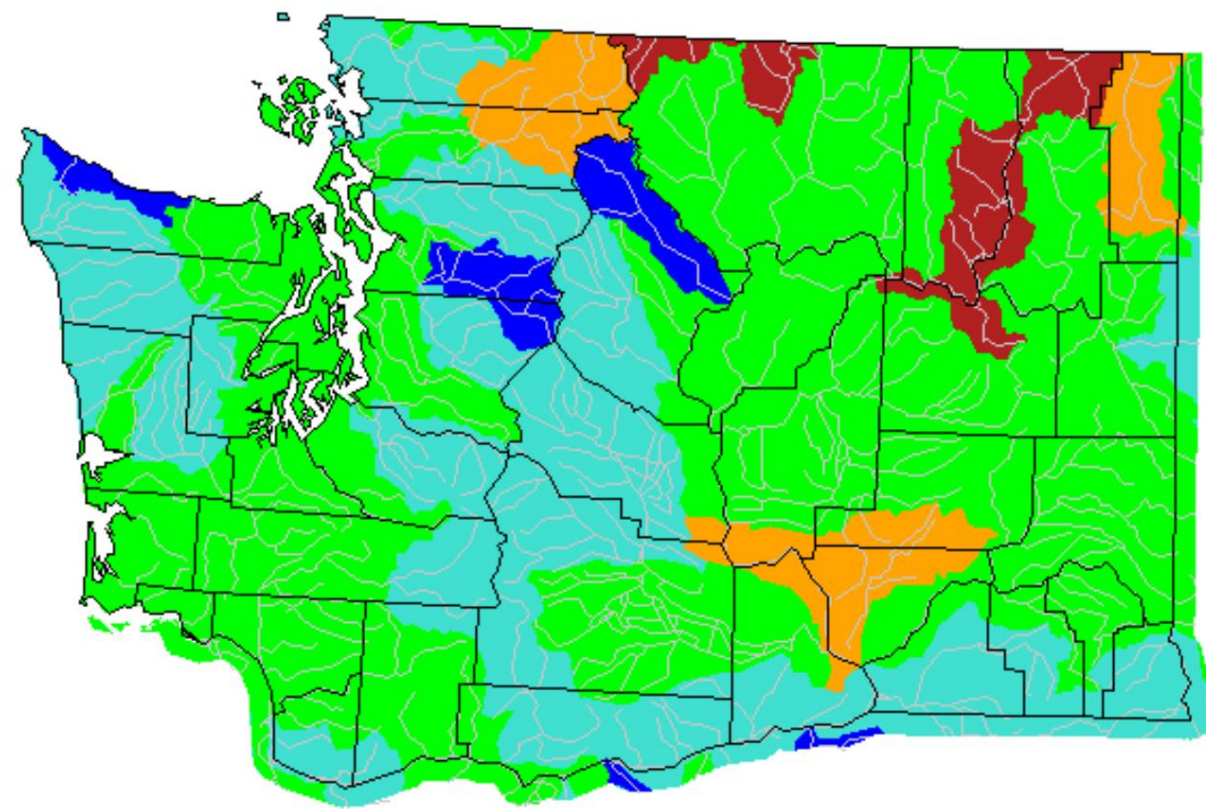
Monthly average streamflow compared to historical streamflow

| Explanation - Percentile classes | | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|-------------|
| | | | | | | |
| Record Low | <10 | 10-24 | 25-75 | 76-90 | >90 | Record High |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | |

February 2025



March 2025

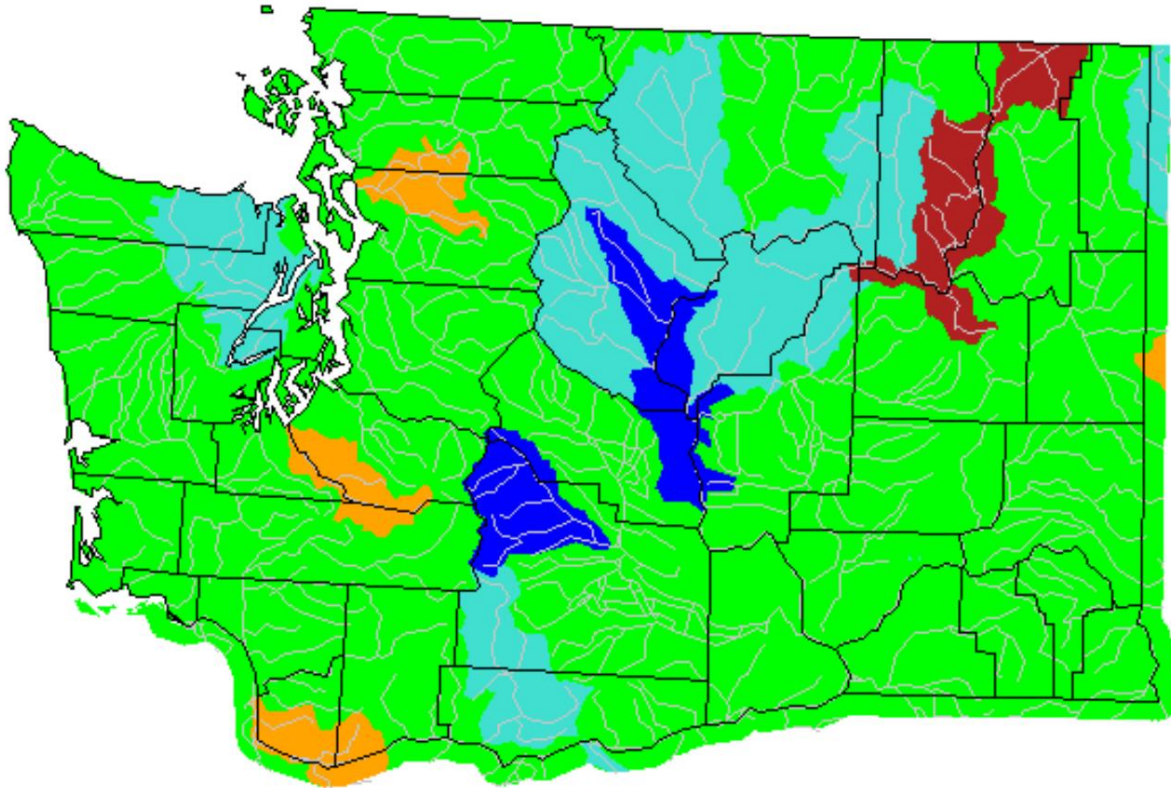


Preliminary Information-Subject to Revision. Not for Citation or Distribution.

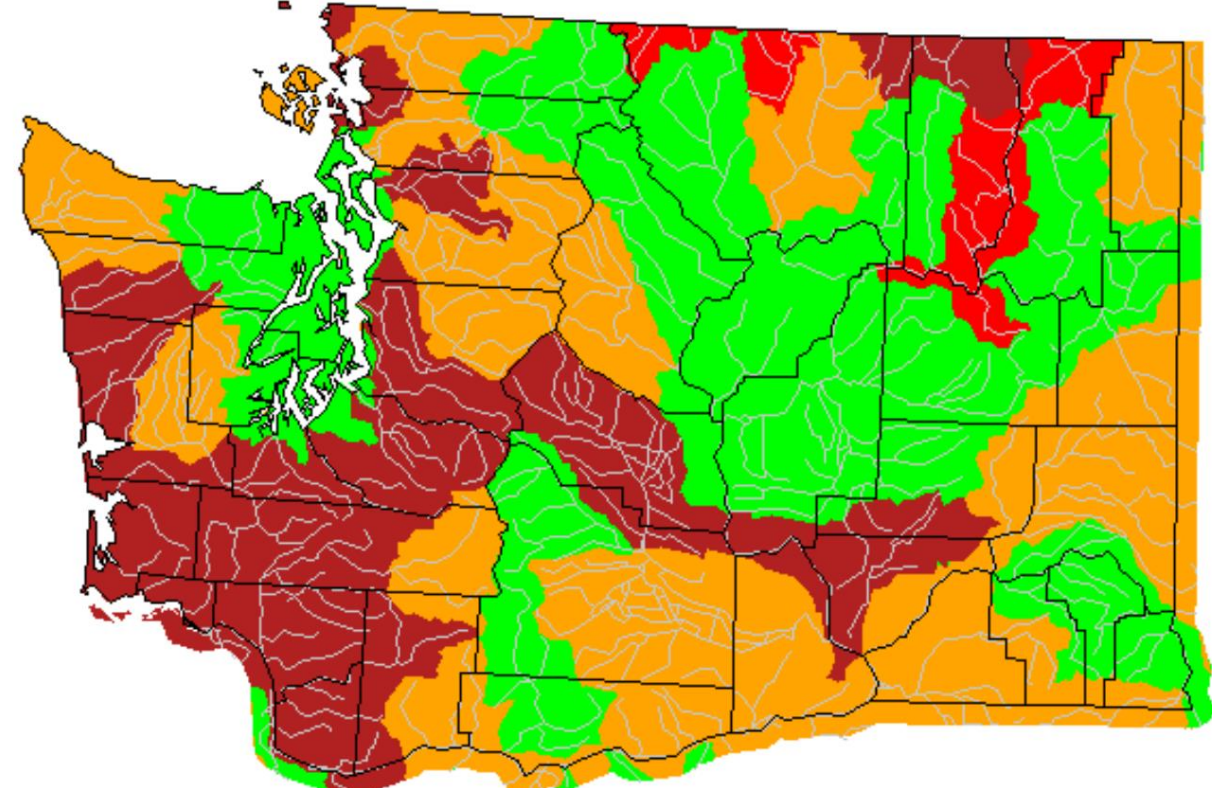
Monthly average streamflow compared to historical streamflow

| Explanation - Percentile classes | | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|-------------|
| | | | | | | |
| Record Low | <10 | 10-24 | 25-75 | 76-90 | >90 | Record High |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | |

April 2025



May 2025

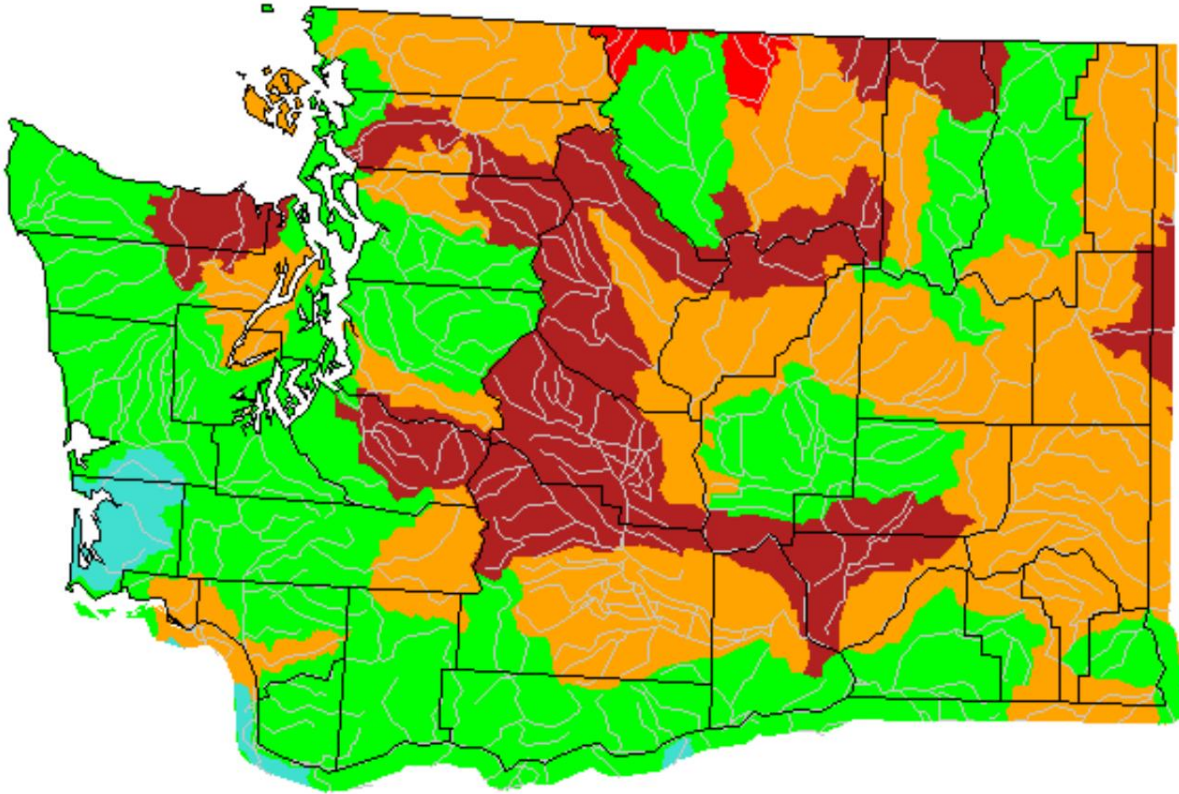


Preliminary Information-Subject to Revision. Not for Citation or Distribution.

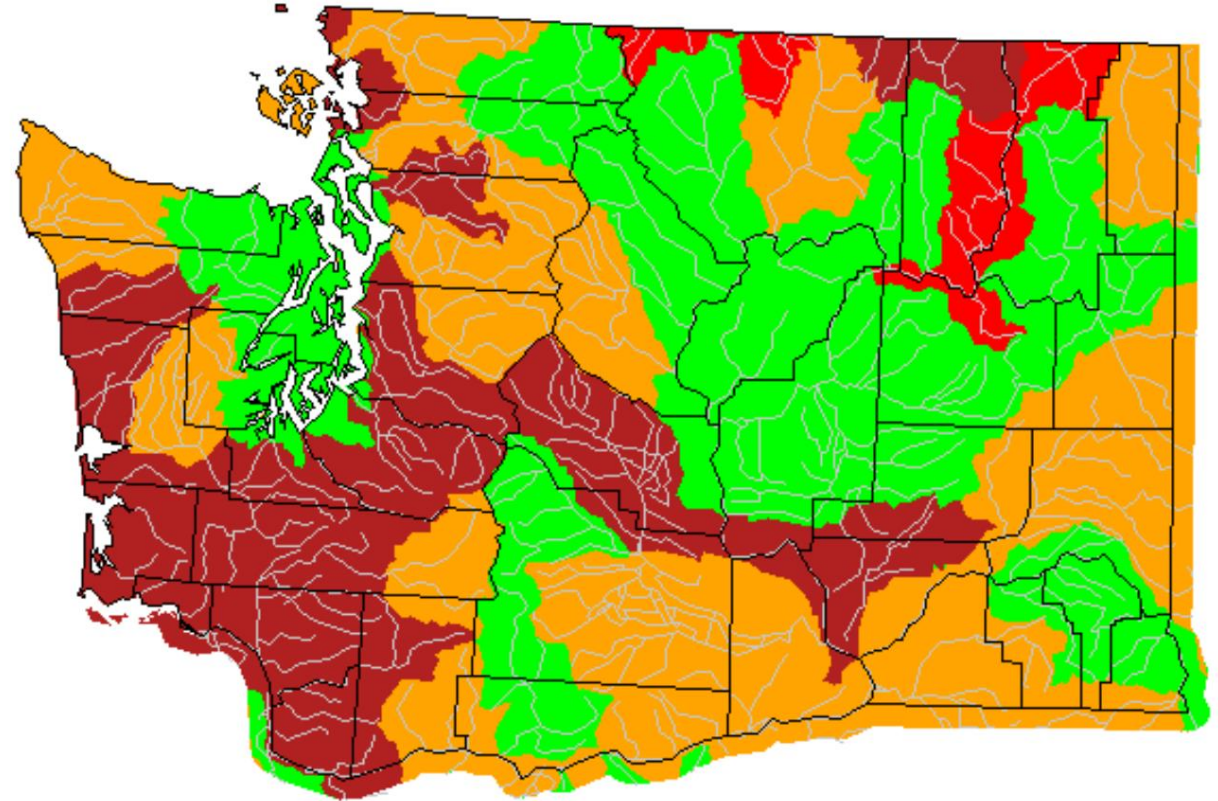
Monthly average streamflow compared to historical streamflow

| Explanation - Percentile classes | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|
| | | | | | |
| Record Low | <10 | 10-24 | 25-75 | 76-90 | >90 |
| | Much below normal | Below normal | Normal | Above normal | Much above normal |

May 2024



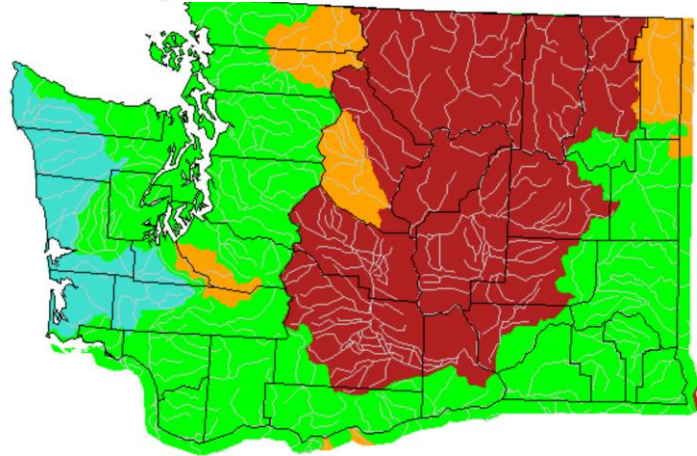
May 2025



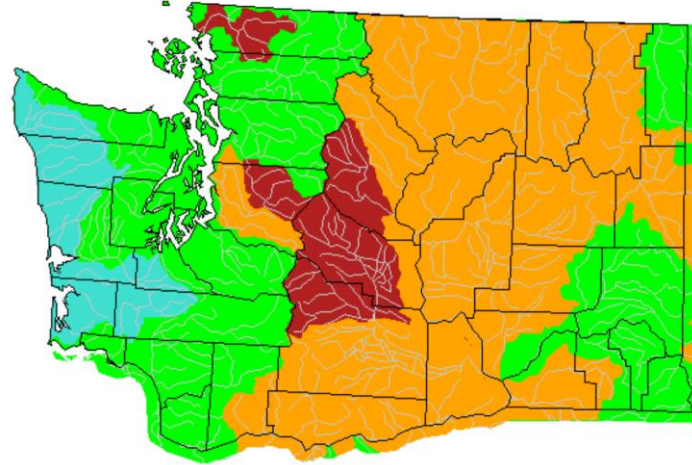
Preliminary Information-Subject to Revision. Not for Citation or Distribution.

Monthly average streamflow compared to historical streamflow

May 2001



May 2005

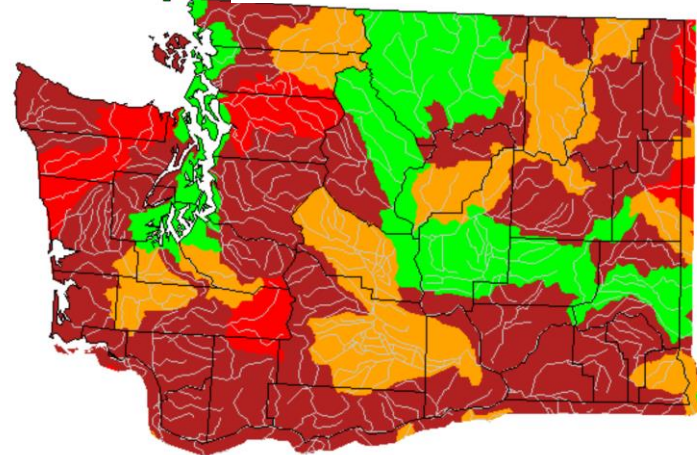


| Explanation - Percentile classes | | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|-------------|
| | | | | | | |
| Record Low | <10 | 10-24 | 25-75 | 76-90 | >90 | Record High |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | |

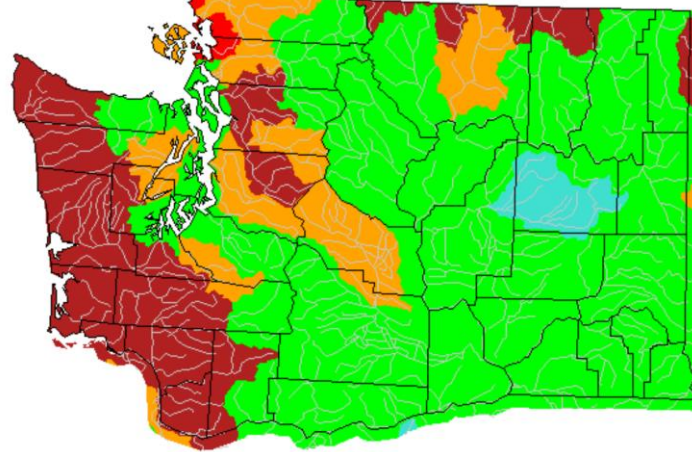
<https://waterwatch.usgs.gov/>

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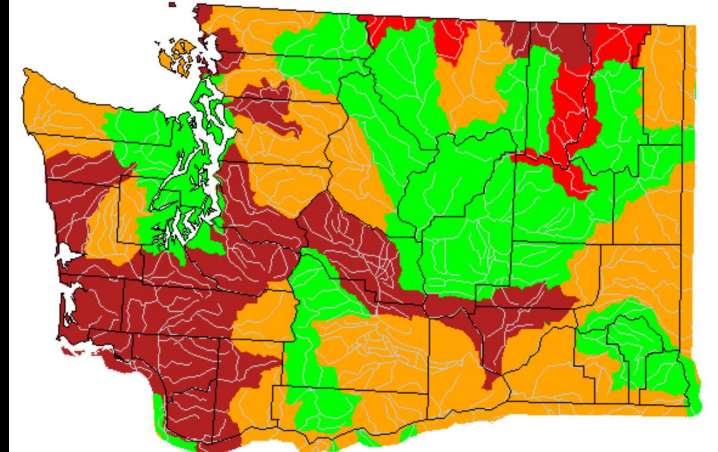
May 2015



May 2019

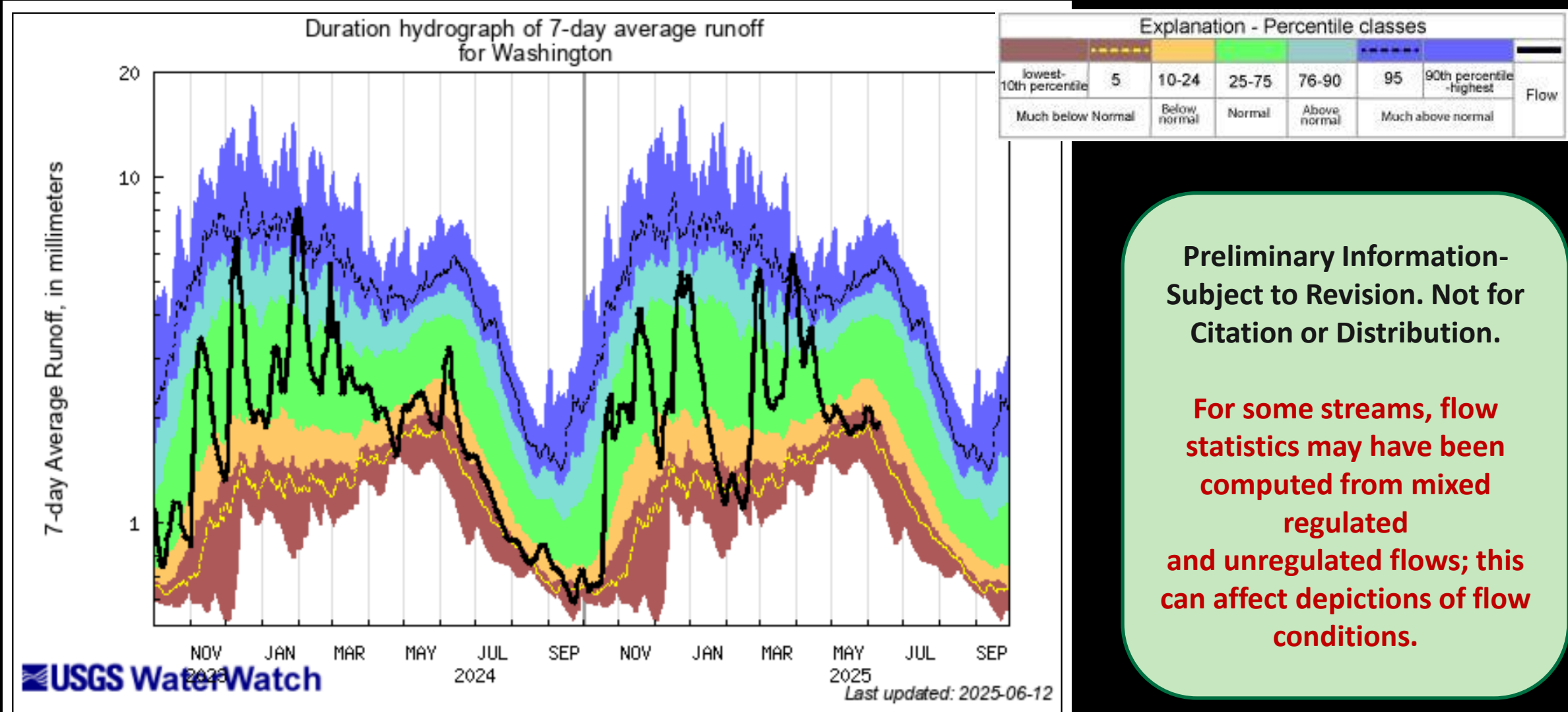


May 2025



Area-Based Runoff Duration Hydrograph

7-day average streamflow



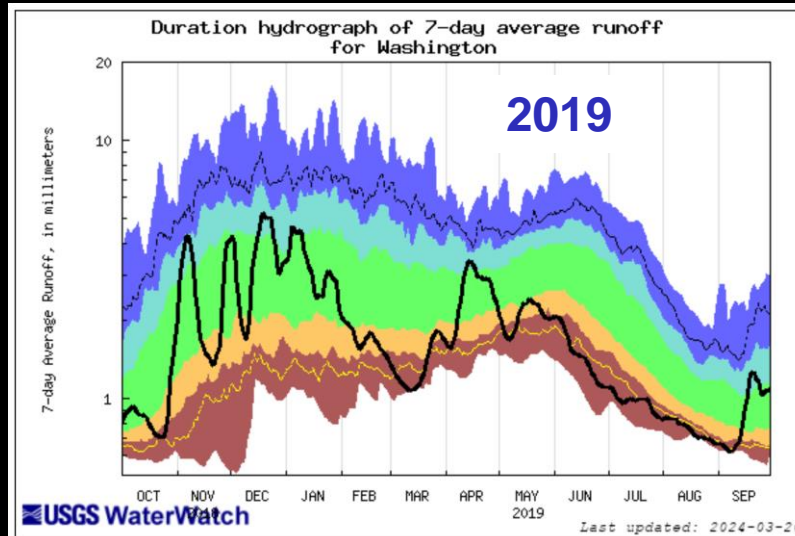
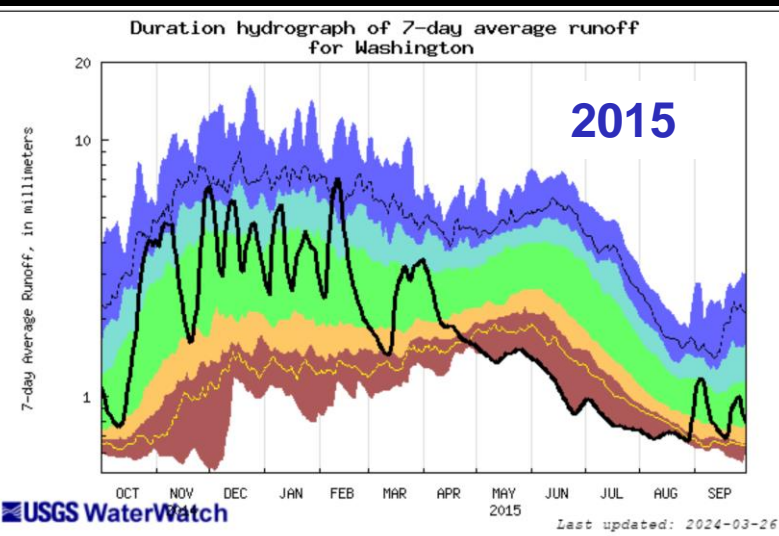
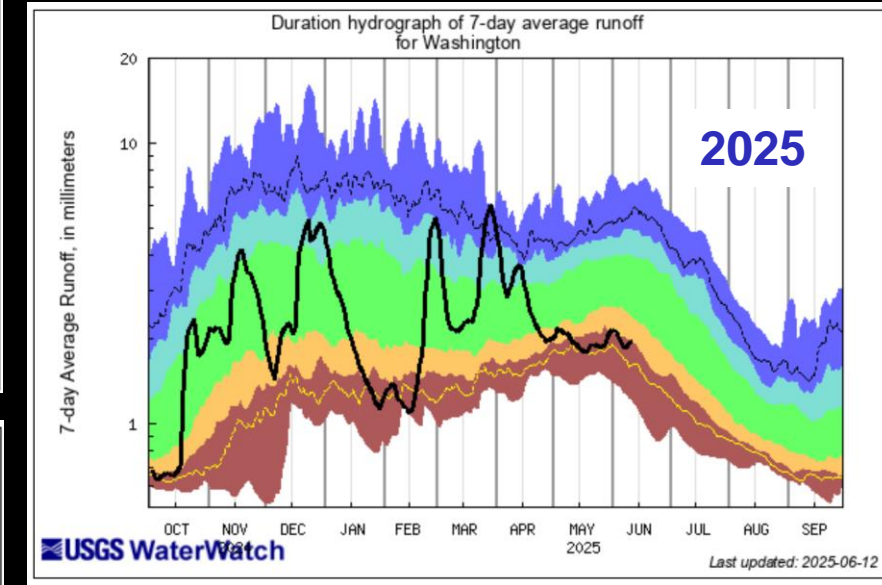
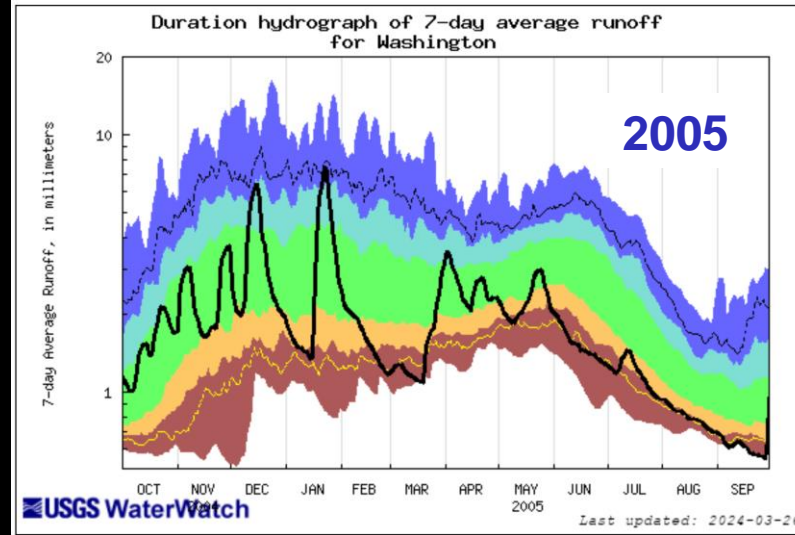
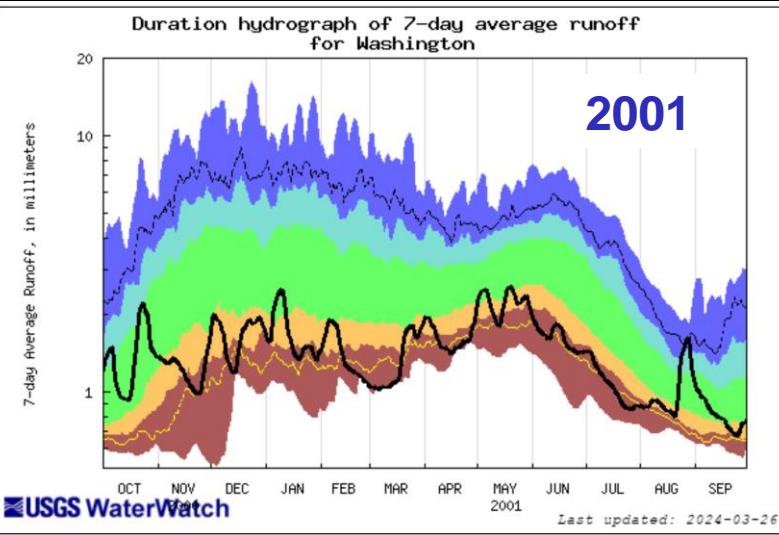
**Preliminary Information-
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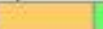
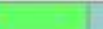
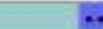


**For some streams, flow
statistics may have been
computed from mixed
regulated
and unregulated flows; this
can affect depictions of flow
conditions.**

Area-Based Runoff Duration Hydrograph

7-day average streamflow

Duration hydrograph for the year compared to recent years of drought



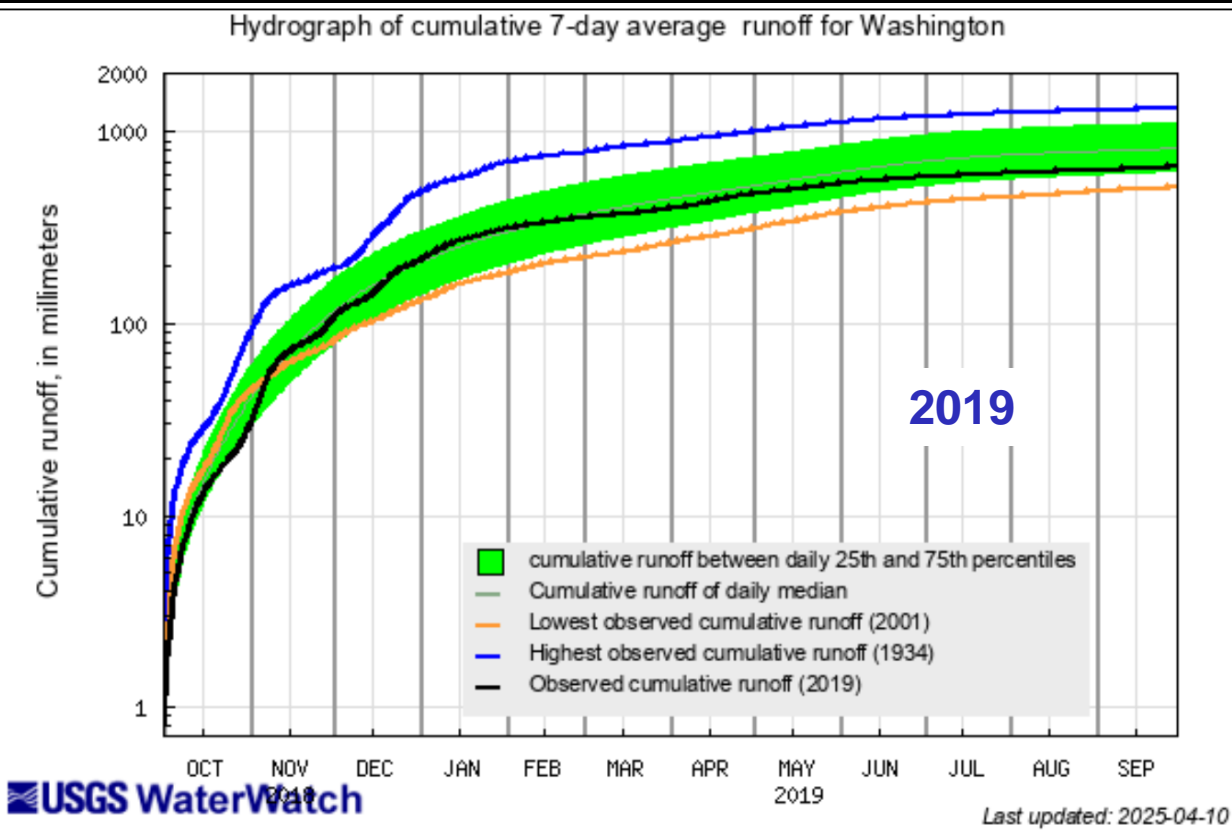
| Explanation - Percentile classes | | | | | | | |
|---|---|---|---|---|---|---|------|
|  |  |  |  |  |  |  | |
| lowest-10th percentile | 5 | 10-24 | 25-75 | 76-90 | 95 | 90th percentile-highest | Flow |
| Much below Normal | Below normal | Normal | Above normal | Much above normal | | | |

Preliminary Information-Subject to Revision. Not for Citation or Distribution.

Cumulative runoff hydrograph

Area-based runoff based on 7-day average

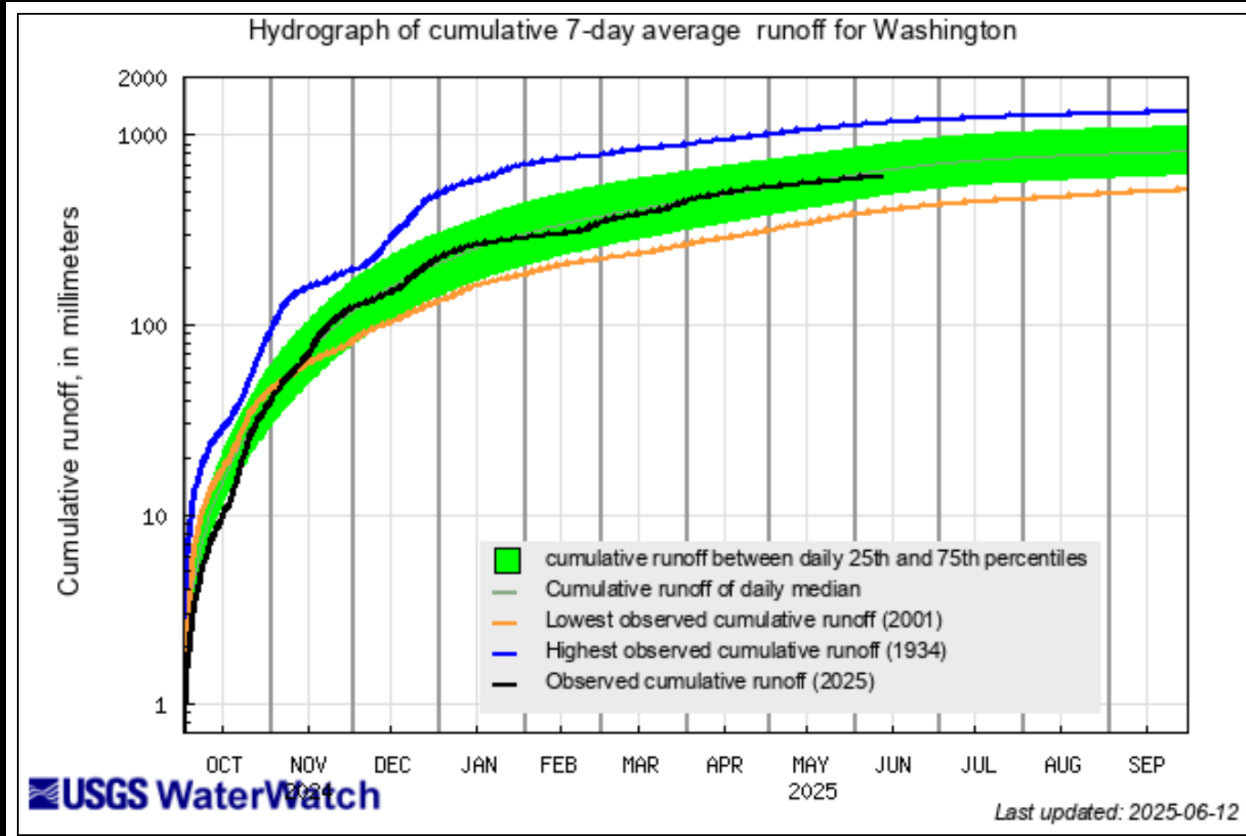
Normal for 2025 water year as of 11 June



2024 water year

Area-based runoff may have been computed from mixed regulated and unregulated streamflows

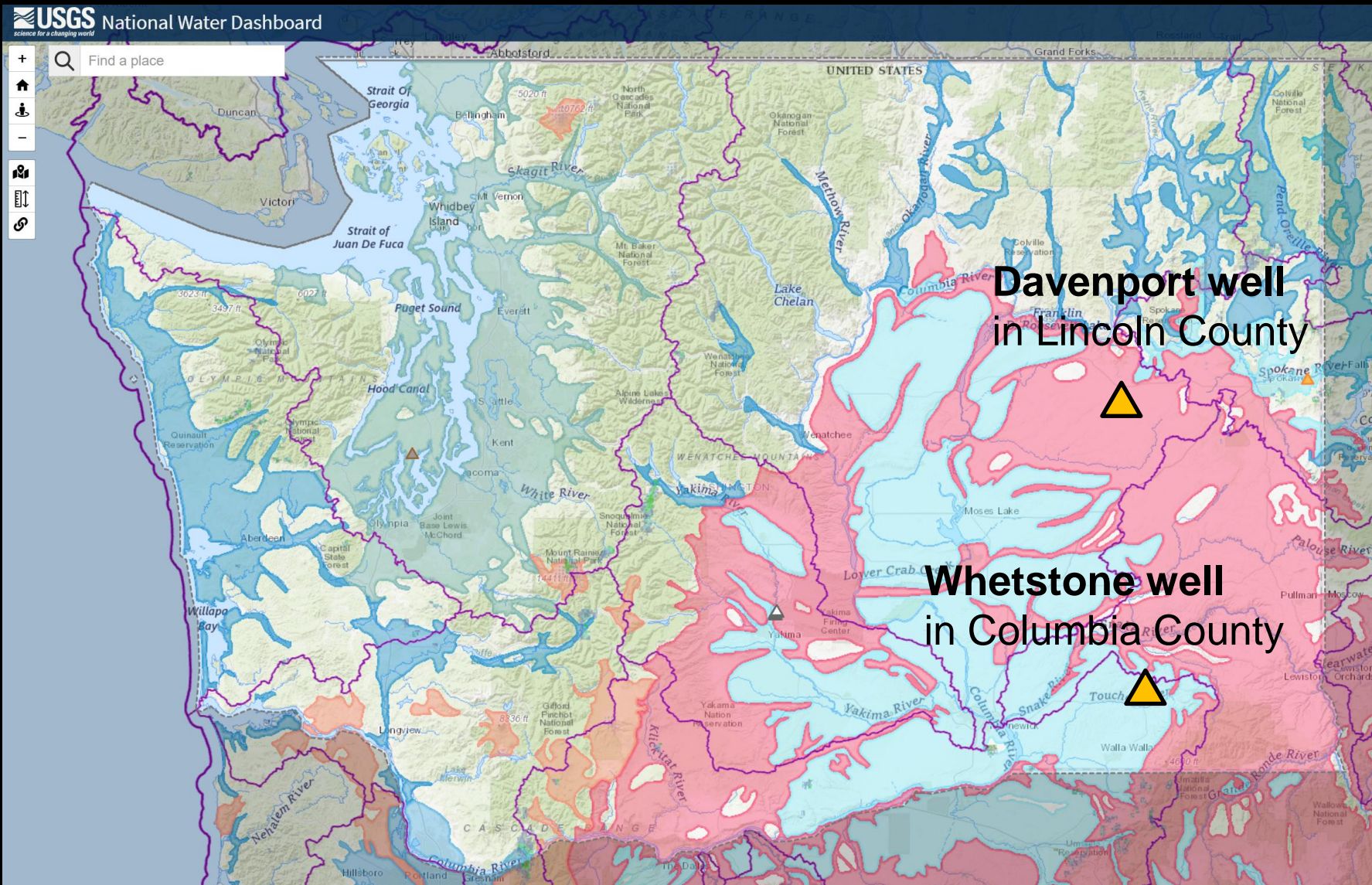
<https://waterwatch.usgs.gov/>



2025 water year

Preliminary Information-Subject to Revision.
Not for Citation or Distribution.

Two reference groundwater wells



Aquifers



- Blues Unconsolidated and semiconsolidated sand and gravel aquifers
- Yellow Coastal Plain aquifer systems in semiconsolidated sand
- Greens Sandstone aquifers
- Purples Sandstone and carbonate-rock aquifers
- Browns Carbonate-rock aquifers
- Reds Igneous and metamorphic-rock aquifers
- White Other

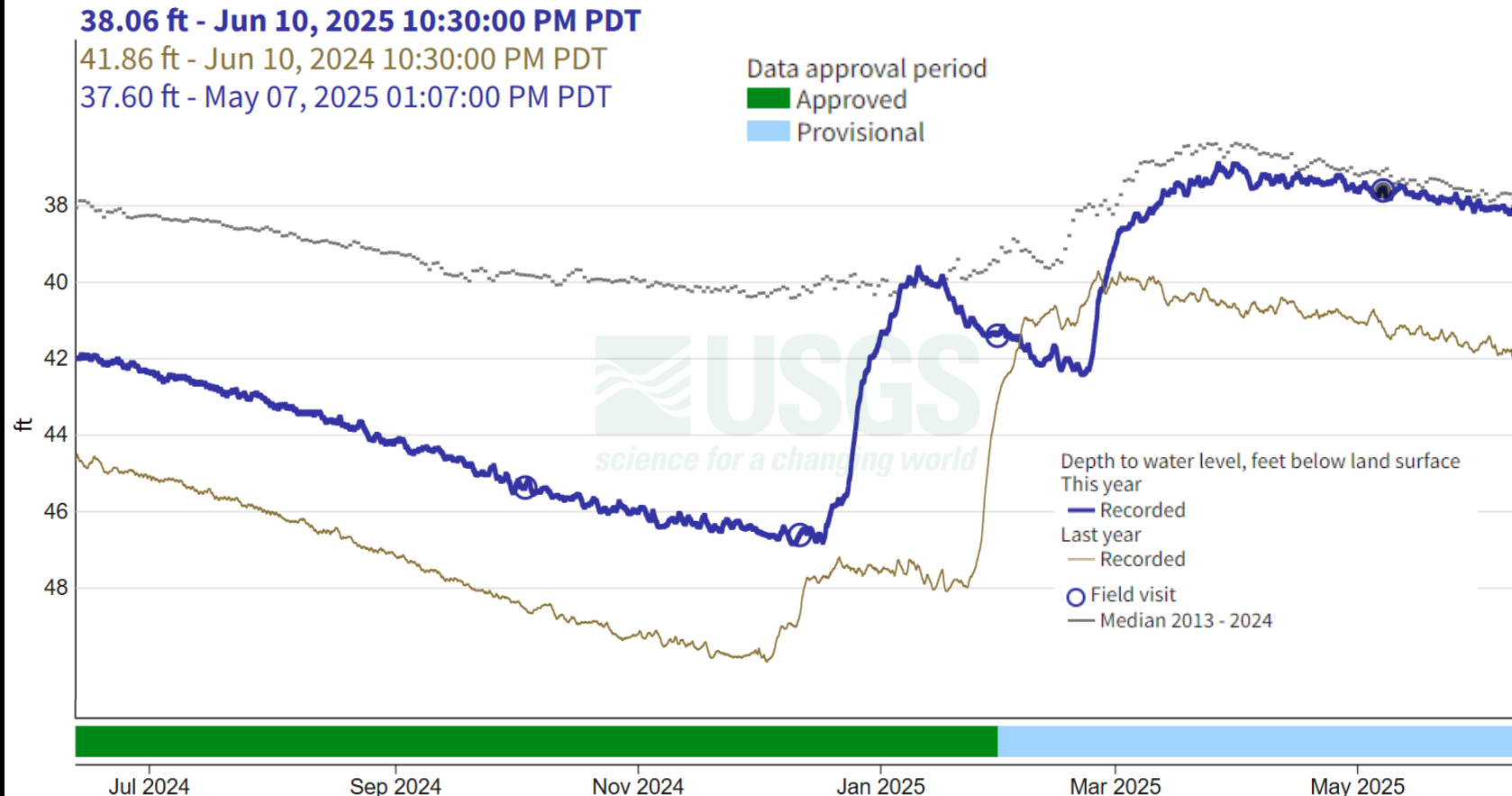
**Preliminary Information-
Subject to Revision. Not
for Citation or
Distribution.**

Davenport Well Groundwater Conditions

24N/36E-16A01 - 473442118162201

[Subscribe to WaterAlert](#)

June 12, 2024 - June 12, 2025
Depth to water level, feet below land surface



Davenport well

Well Details

- Lincoln County
- 117-ft deep
- Wanapum Basalt

**Preliminary Information-
Subject to Revision. Not for
Citation or Distribution.**

Davenport Well Groundwater Conditions

24N/36E-16A01 - 473442118162201

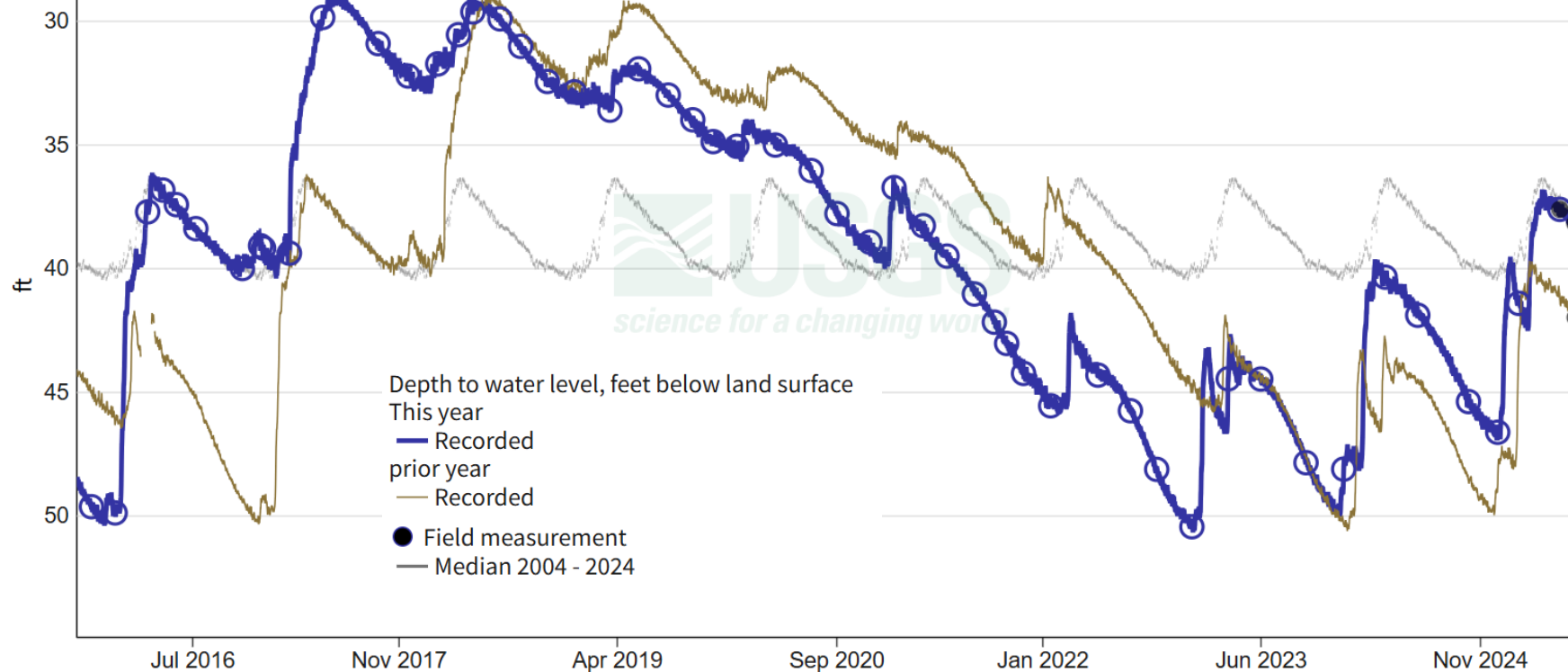
[Subscribe to WaterAlert](#)

- using custom time span -
October 1, 2015 - June 12, 2025
Depth to water level, feet below land surface

38.17 ft - Jun 12, 2025 08:30:00 AM PDT

41.97 ft - Jun 12, 2024 11:45:00 PM PDT

37.60 ft - May 07, 2025 01:07:00 PM PDT



Well Details

- Lincoln County
- 117-ft deep
- Wanapum Basalt

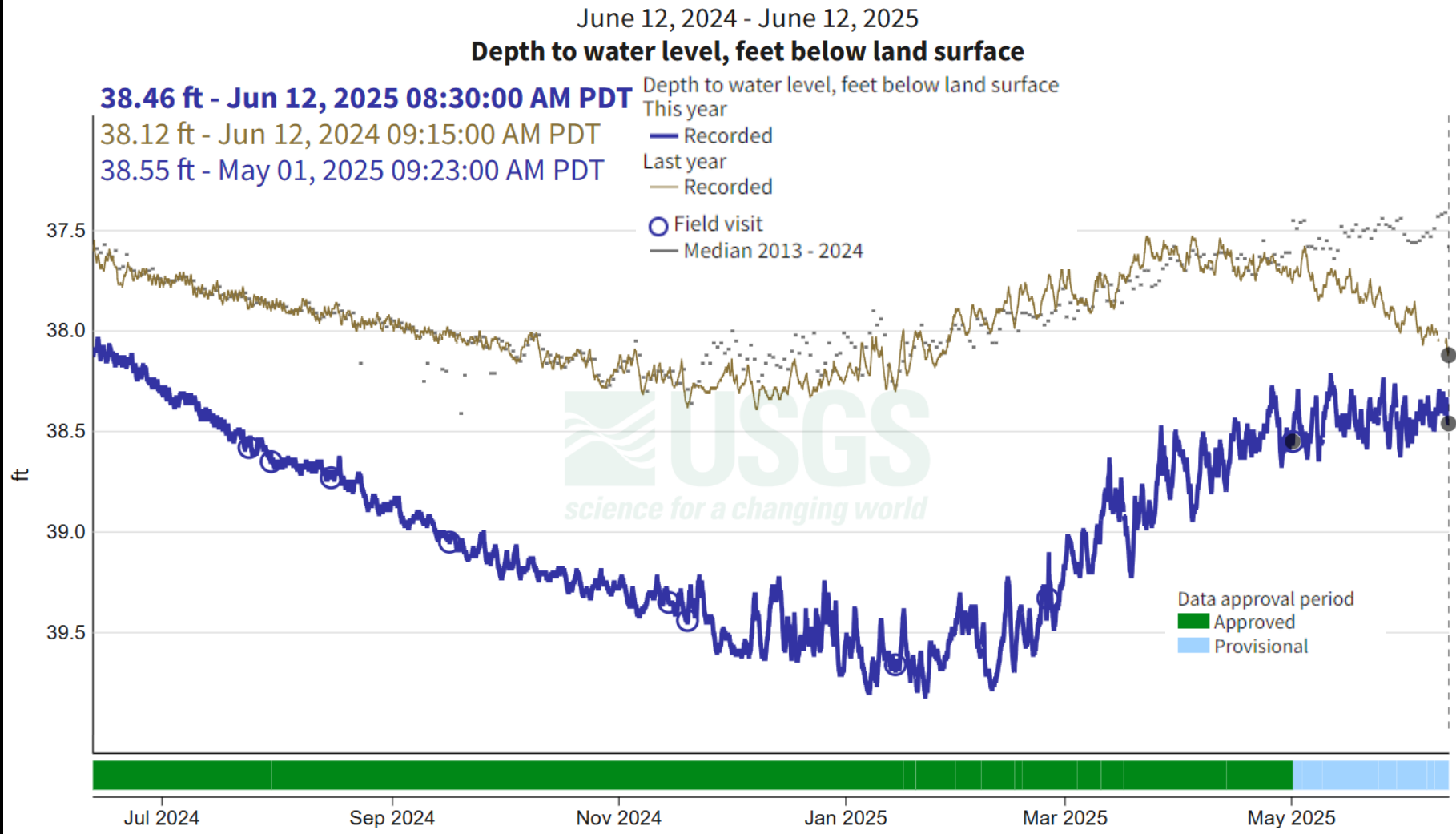
**Preliminary
Information-
Subject to
Revision. Not for
Citation or
Distribution.**

<https://dashboard.waterdata.usgs.gov/app/nwd/en/?aoi=state-wa>

Whetstone Well Groundwater Conditions

10N/37E-23R01 - 461935118081501

[Subscribe to WaterAlert](#)



Whetstone well

Well Details:

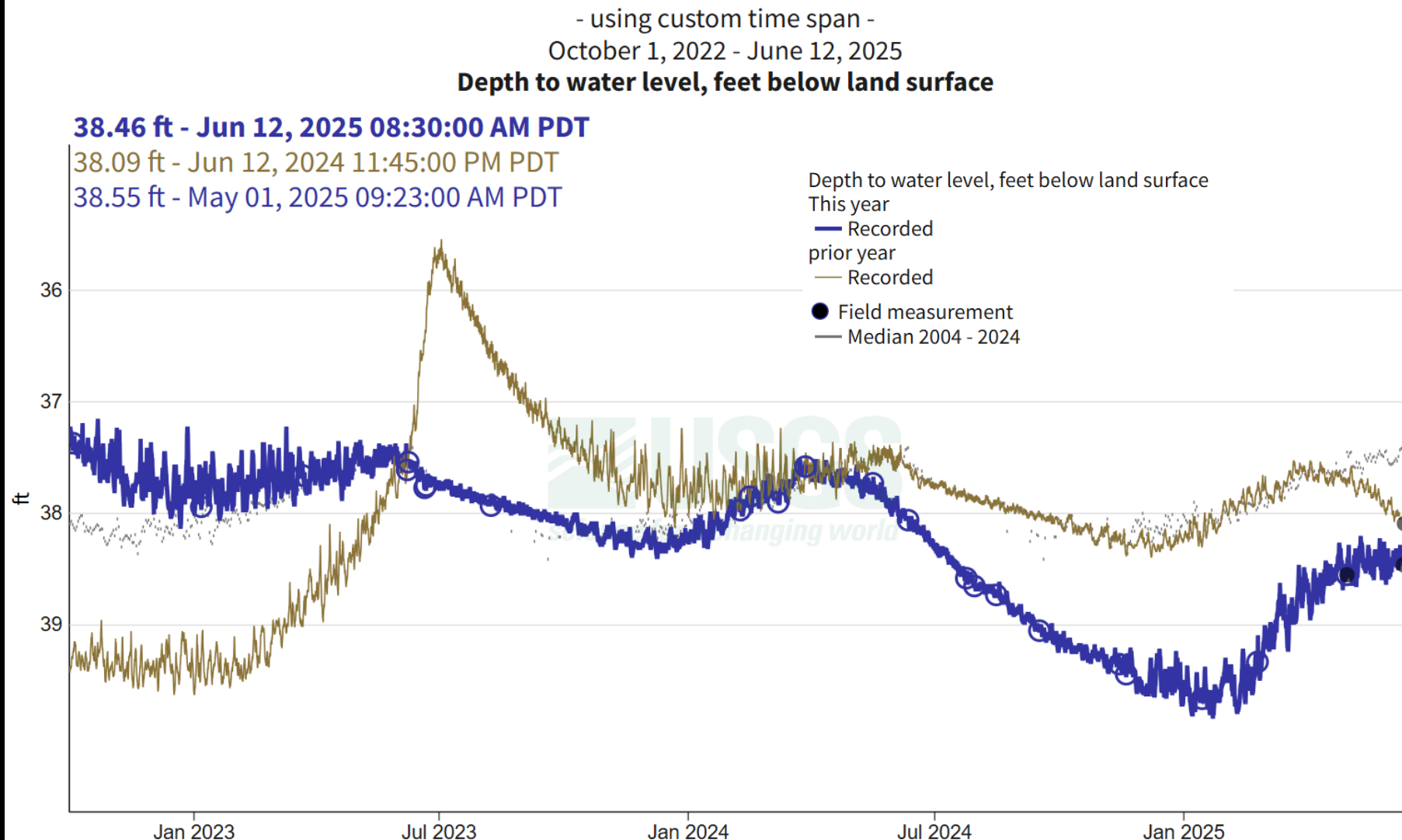
- Columbia County near Waitsburg
- 172.5-ft deep
- Grande Ronde Basalt Formation

**Preliminary Information-
Subject to Revision. Not
for Citation or
Distribution.**

Whetstone Well Groundwater Conditions

10N/37E-23R01 - 461935118081501

[Subscribe to WaterAlerts](#)



Well Details:

- Columbia County near Waitsburg
- 172.5-ft deep
- Grande Ronde Basalt Formation

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Information-
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Citation or
Distribution.**

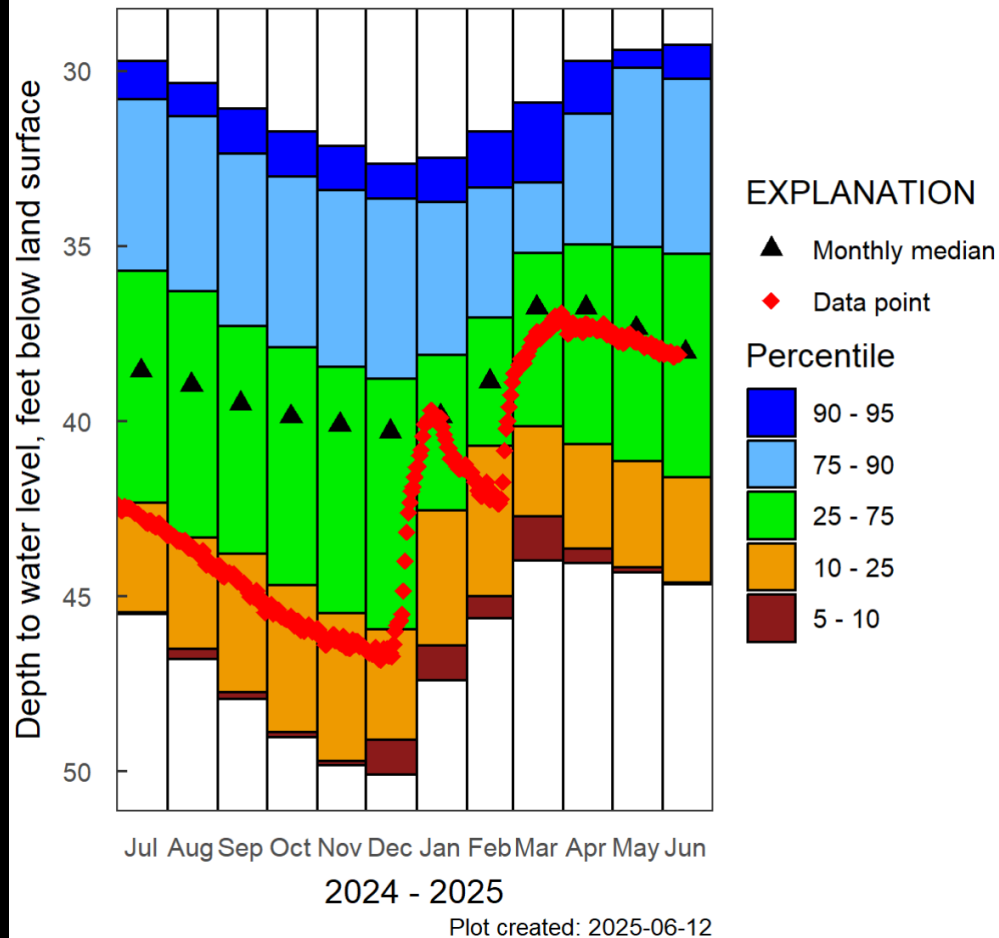
<https://dashboard.waterdata.usgs.gov/app/nwd/en/?aoi=state-wa>

Groundwater Conditions

Davenport well

24N/36E-16A01

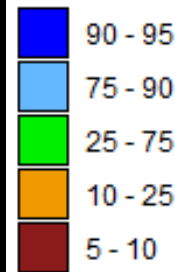
U.S. Geological Survey



EXPLANATION

- ▲ Monthly median
- ◆ Data point

Percentile

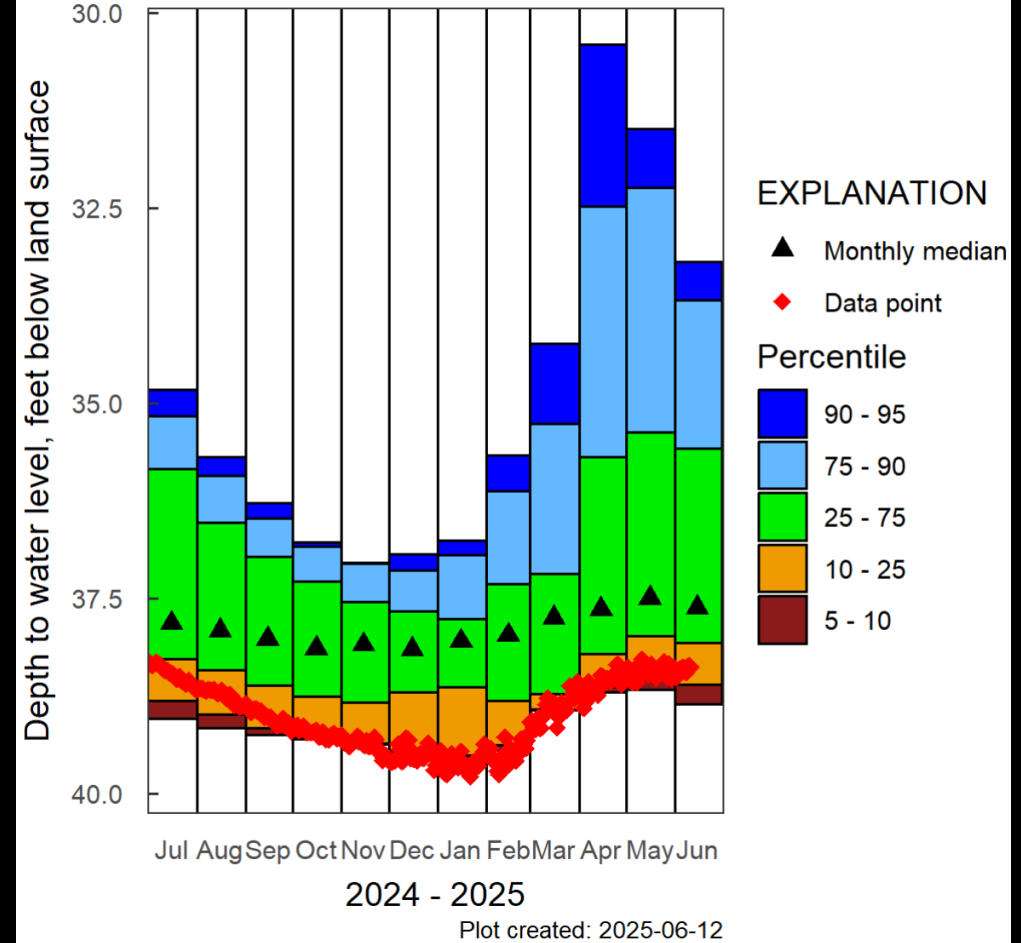


**Preliminary
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Subject to
Revision. Not
for Citation or
Distribution.**

Whetstone well

10N/37E-23R01

U.S. Geological Survey



Summary of Washington Streamflow and Groundwater Conditions as of 11 June 2025

7-day average streamflow at eight index gaging stations:

Normal

- Nooksack River
- American River

Below Normal

- Quinault River
- Puyallup River nr. Orting
- Chehalis River nr. Grand Mound
- Walla Walla River

Much Below Normal

- Hangman Creek
- EF Lewis River

Monthly average groundwater conditions:

- Davenport well
 - Normal
- Whetstone well
 - Below normal

Preliminary Information-Subject to Revision. Not for
Citation or Distribution.

Summary of Washington Streamflow and Groundwater Conditions as of 11 June 2025

Monthly average area-based runoff in May below normal

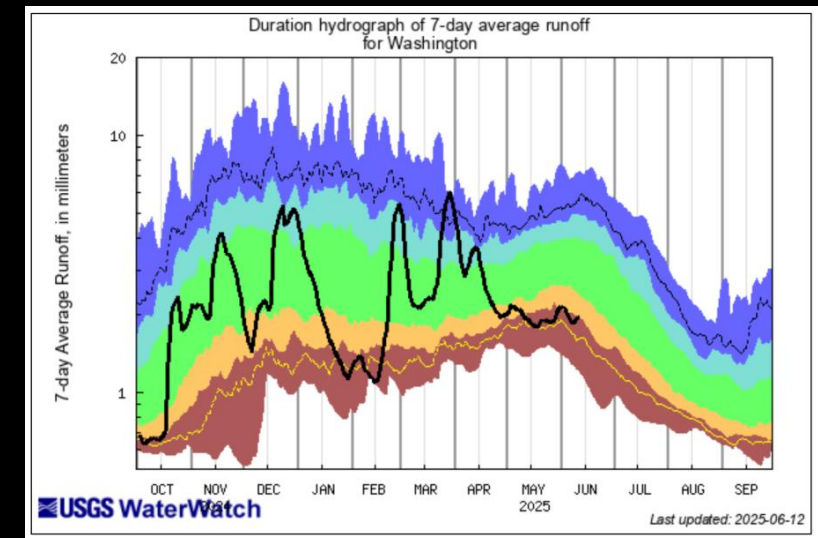
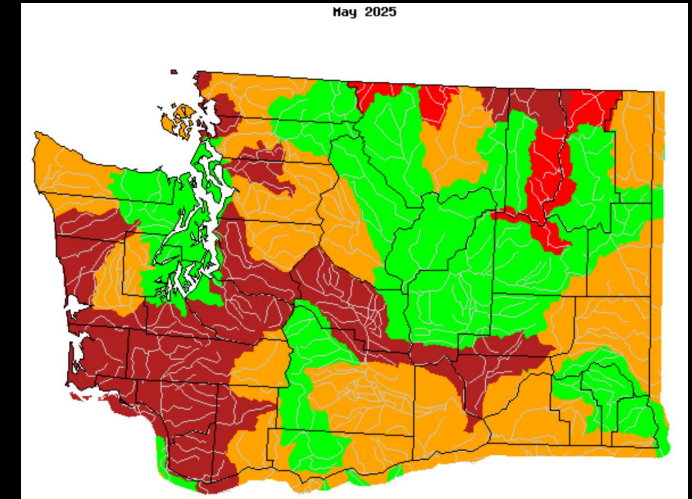
- Record lows in Roosevelt Lake and Similkameen
- Much below normal in the southeastern WA and
 - Stillaguamish
 - South and parts of Central Puget Sound
 - Queets/Quinault
 - Kettle
 - Upper Columbia-Priest Rapids
 - Upper Yakima

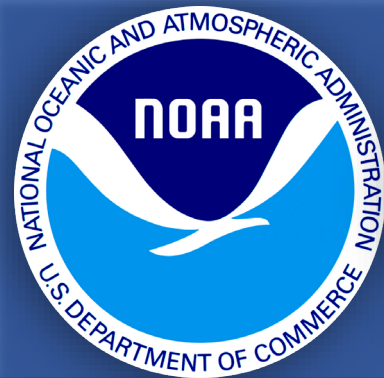
7-Day Area-based runoff below normal to much-below normal in May to June

- Lower flow conditions than past drought years

Cumulative Runoff

- Normal for water year 2025





NWS

June 2025 Washington Water Supply

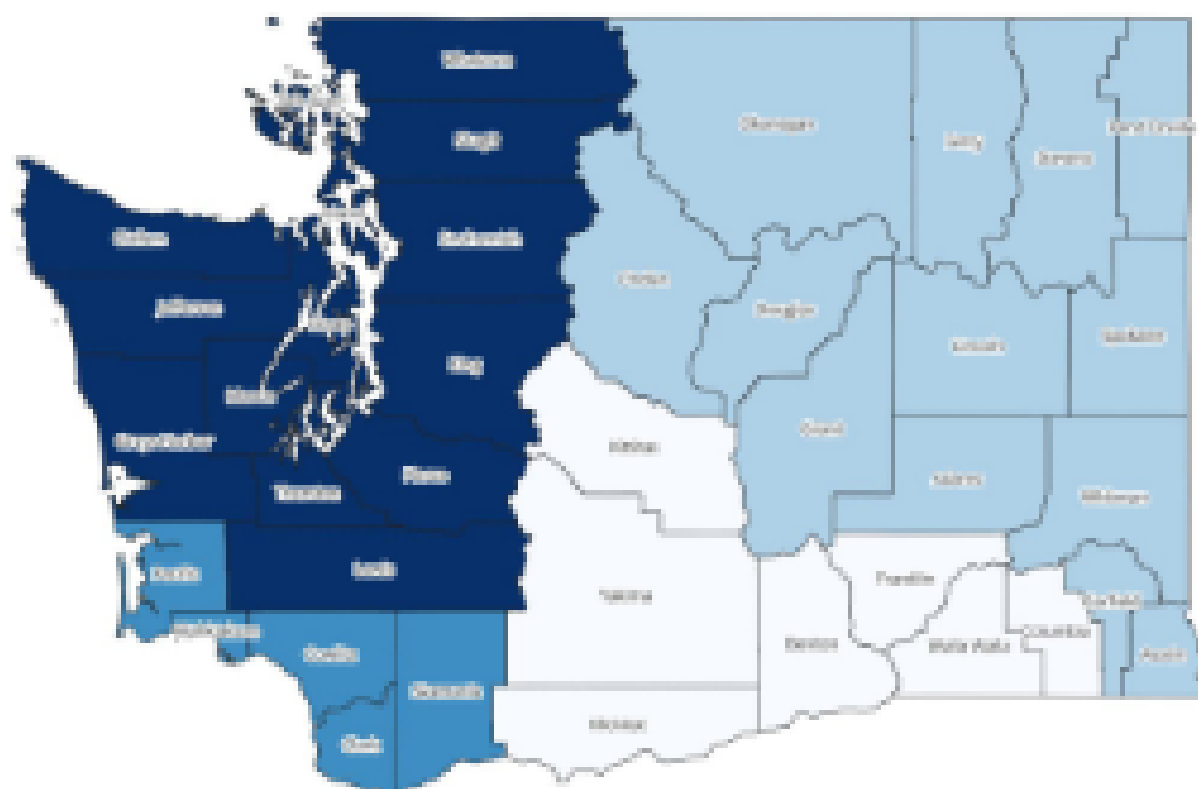
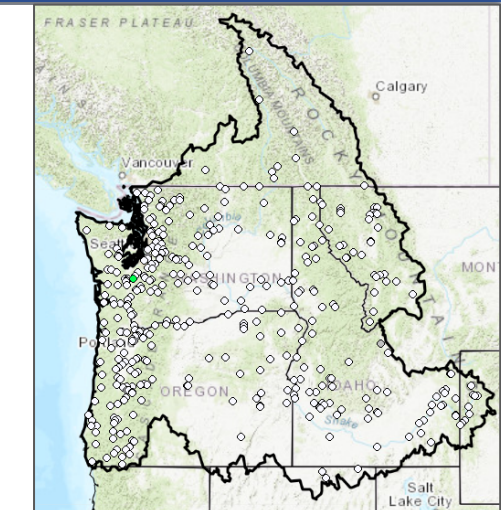
Brent Bower for Amy Burke, Sr Hydrologist - Northwest River Forecast Center
NWRFC.watersupply@noaa.gov

Brent Bower, Sr Service Hydrologist Seattle

~~Andy Bryant, Sr Service Hydrologist Portland~~ Tanja Fransen, Meteorologist In Charge

~~Robin Fox, Service Hydrologist Spokane~~ Charlotte Dewey, Warning Coordination Meteorologist

George Perry, Service Hydrologist Pendleton



Washington State - Areas of Responsibility



Northwest Washington - NWS Seattle - nws.seattle@noaa.gov



Southwest Washington - NWS Portland - nws.portland@noaa.gov

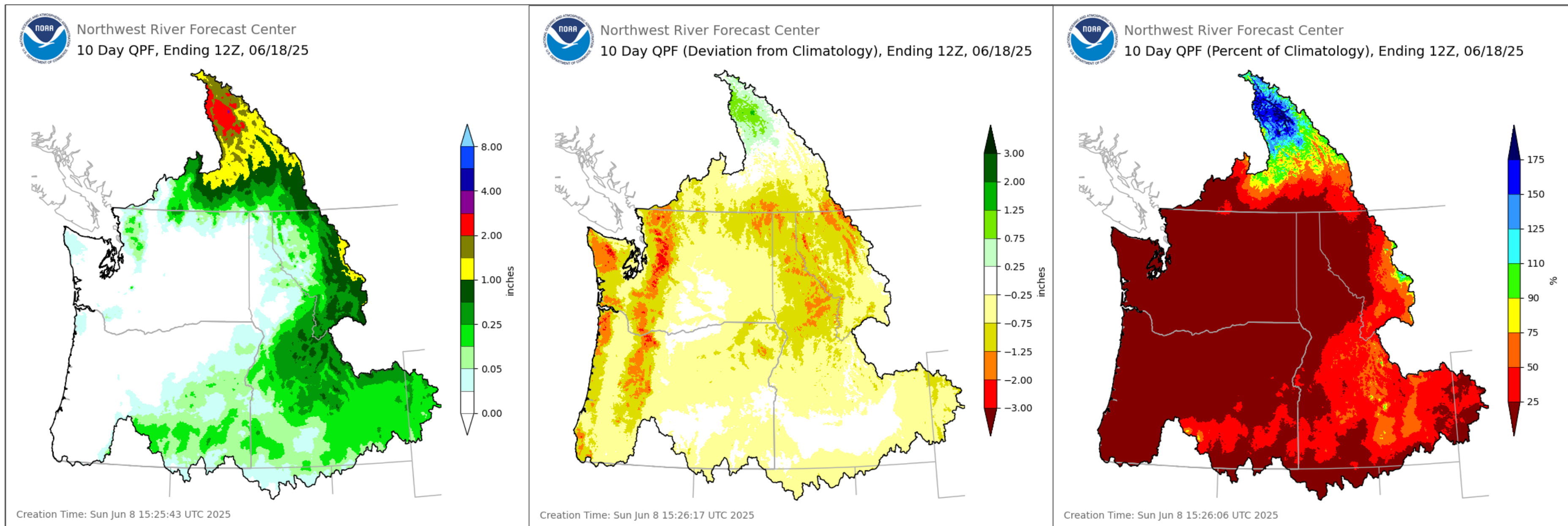


Northeast Washington - NWS Spokane - nws.spokane@noaa.gov



Southeast Washington - NWS Pendleton - pdt.operations@noaa.gov

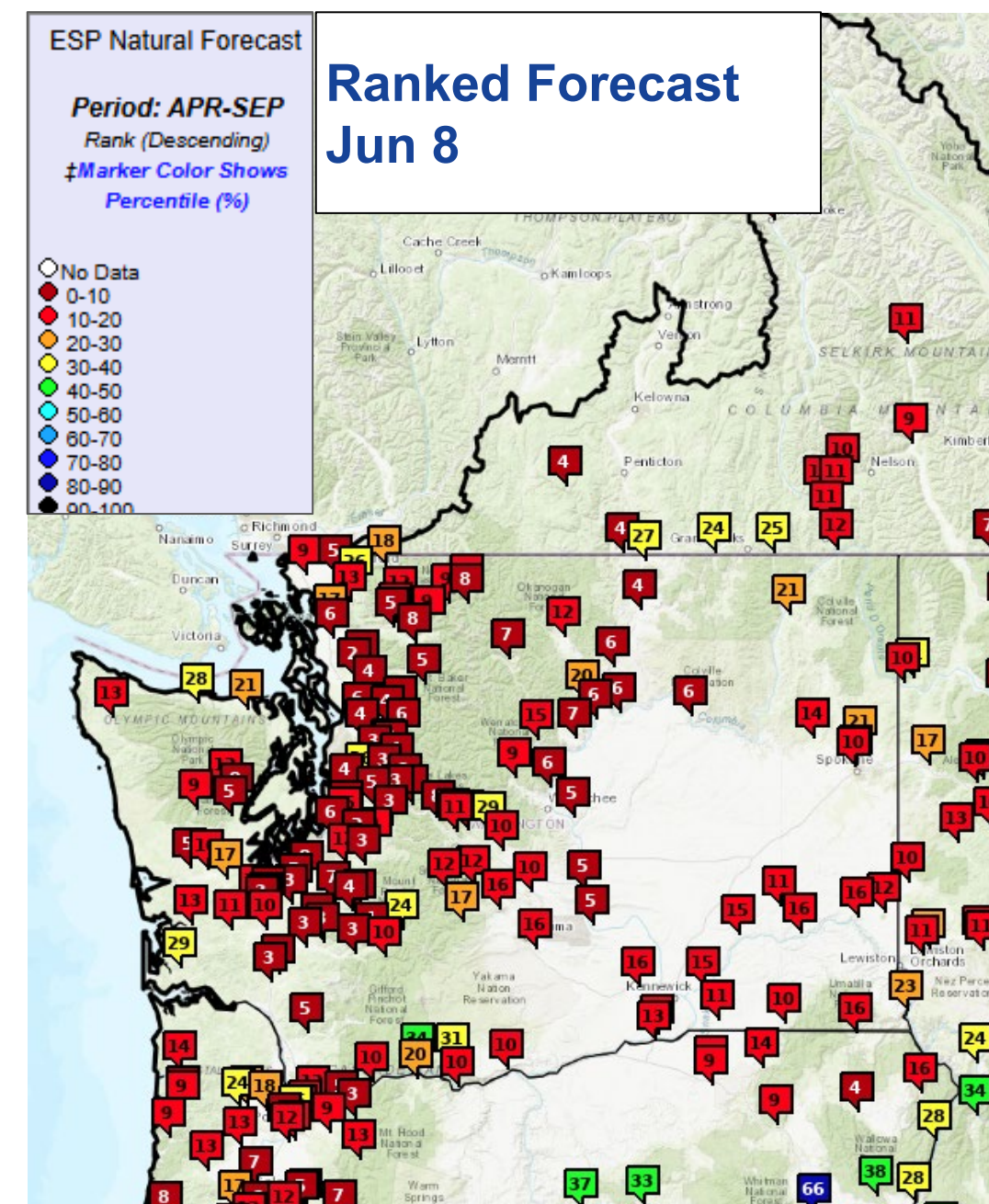
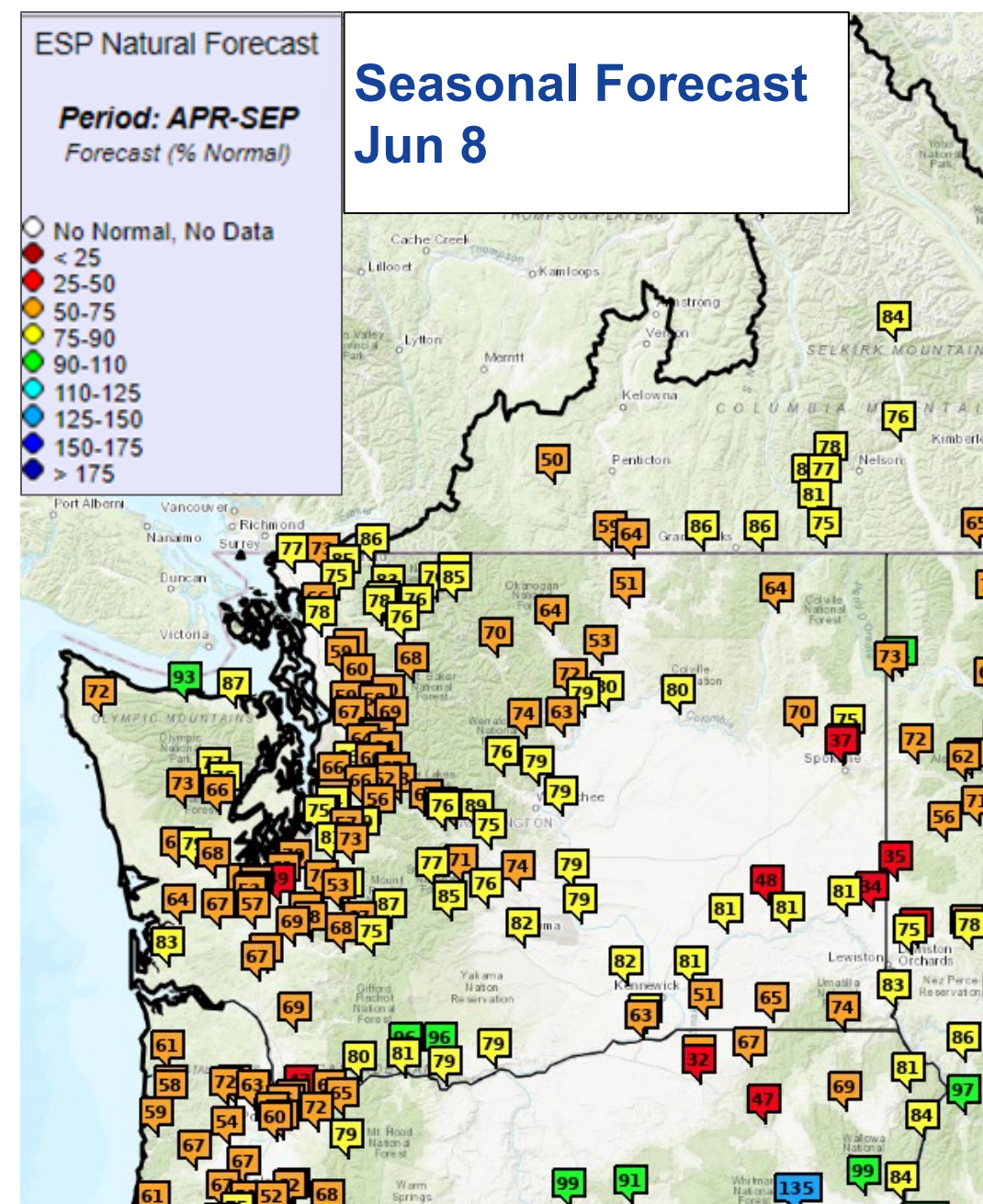
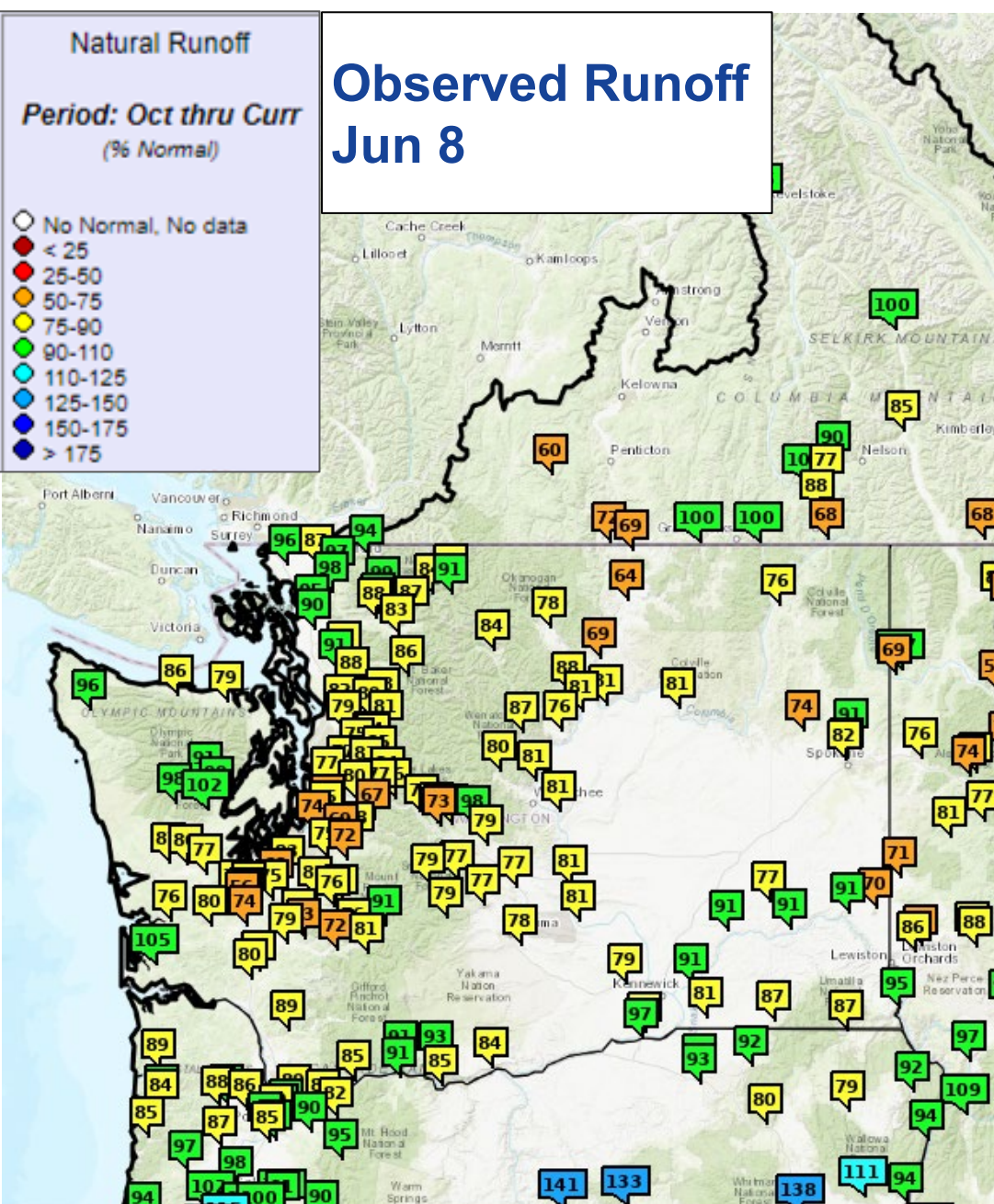
10 Day Precipitation Forecast used in ESP10



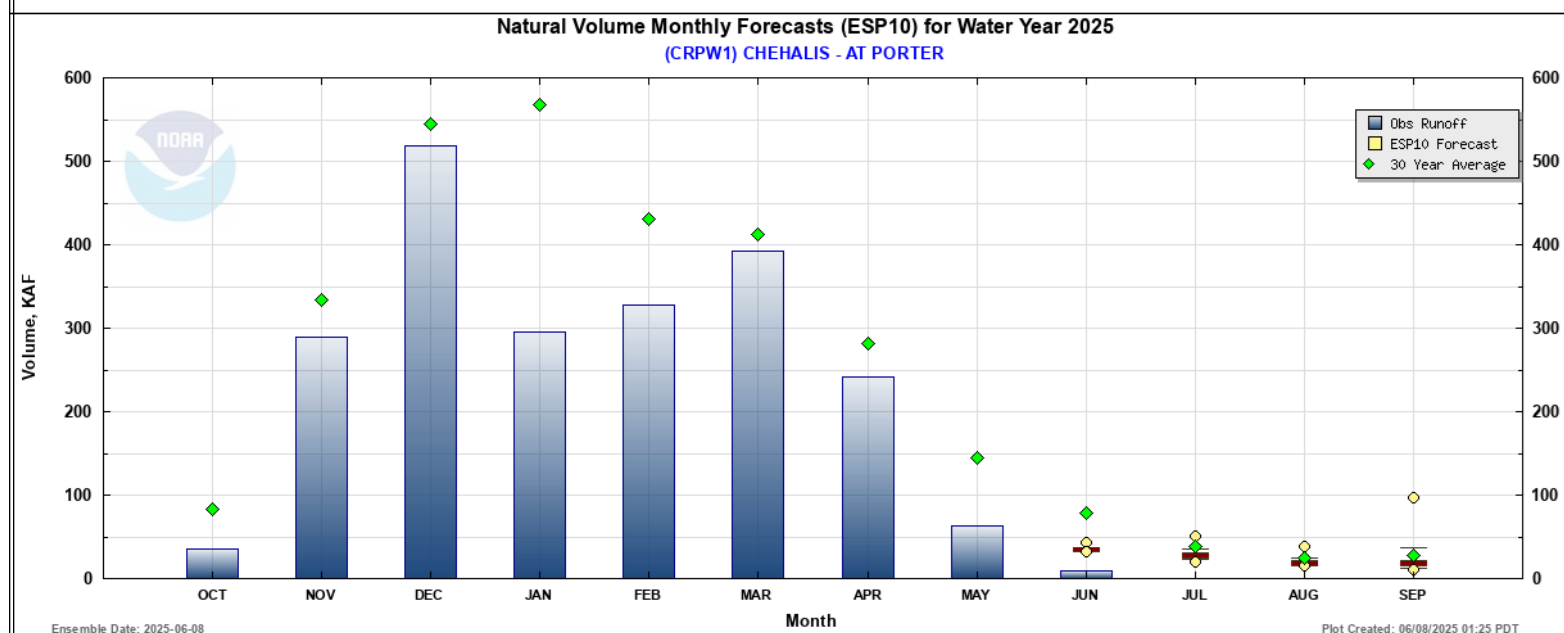
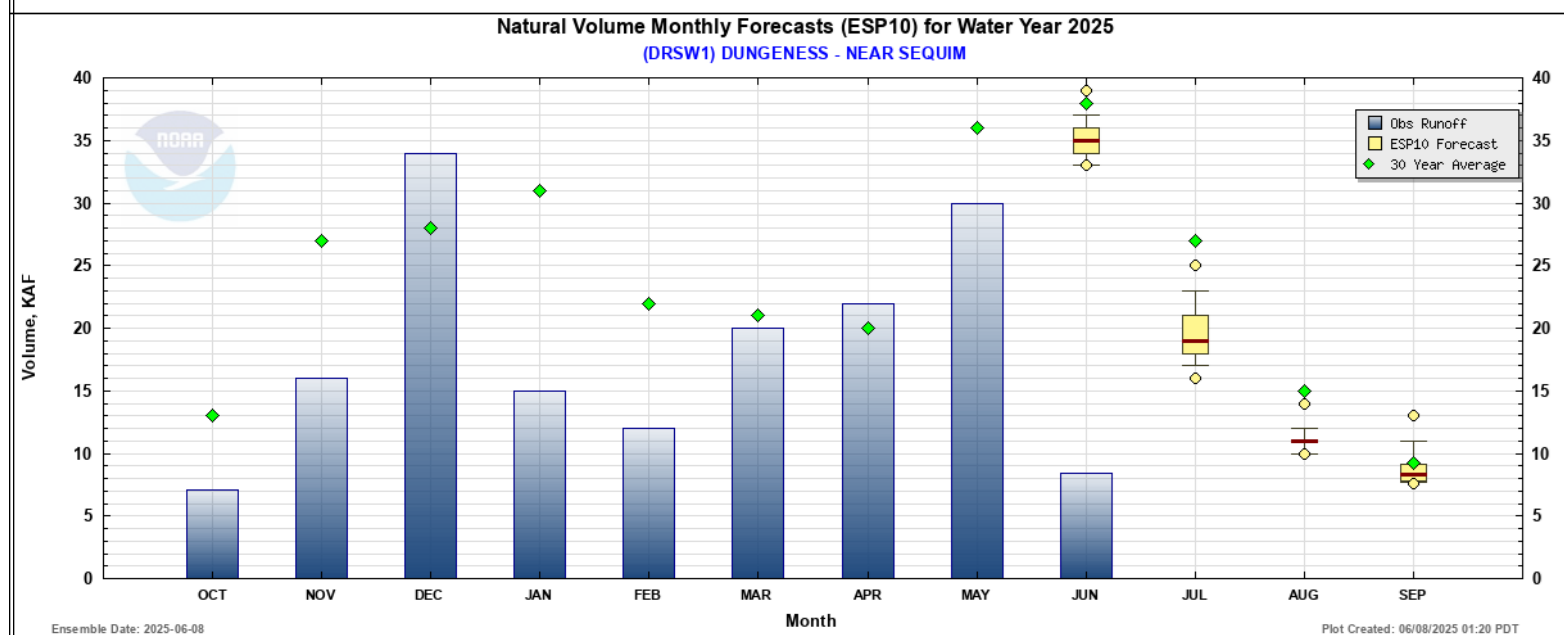
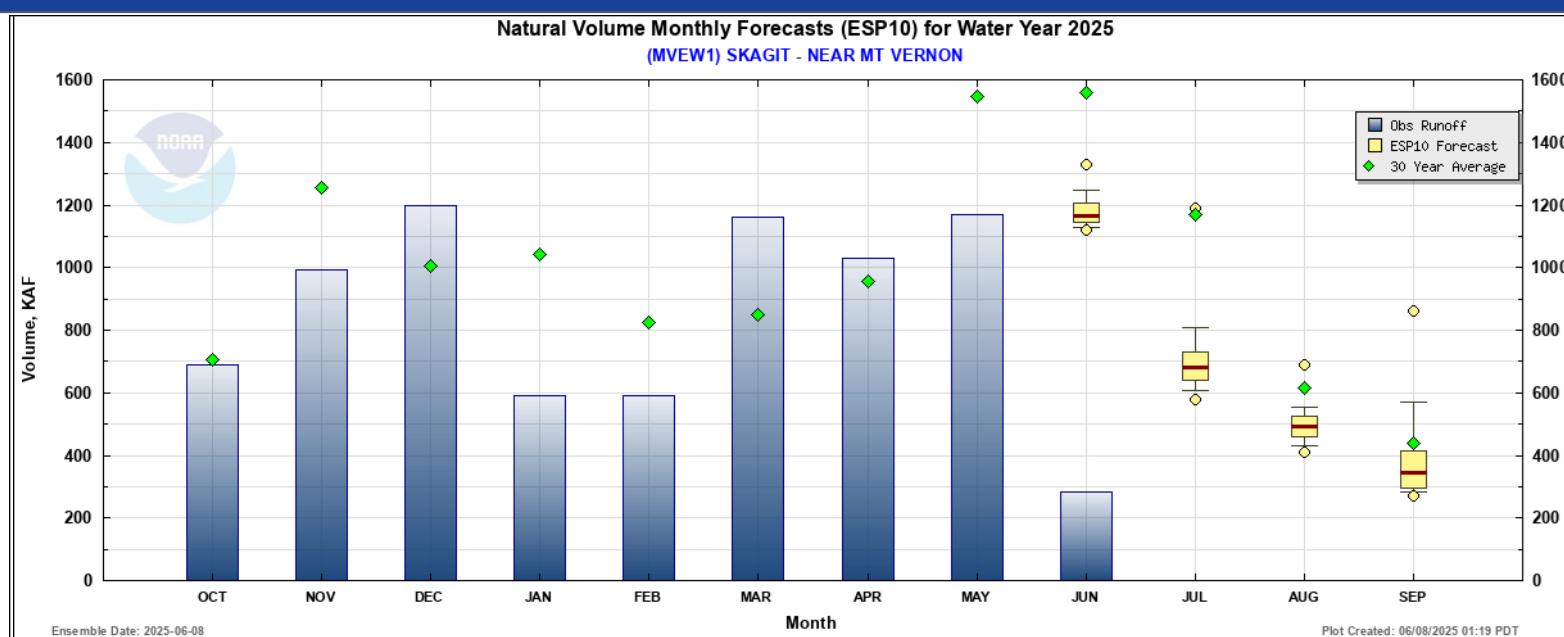
Quantitative Precipitation Forecast (QPF) Sources:

- Days 1 - 2 NWS Weather Forecast Offices (WFO) in the US, WPC in BC.
- Days 3 - 7 NWS Weather Prediction Center (WPC).
- Days 8 - 10 NWS National Blend of Models (NBM).

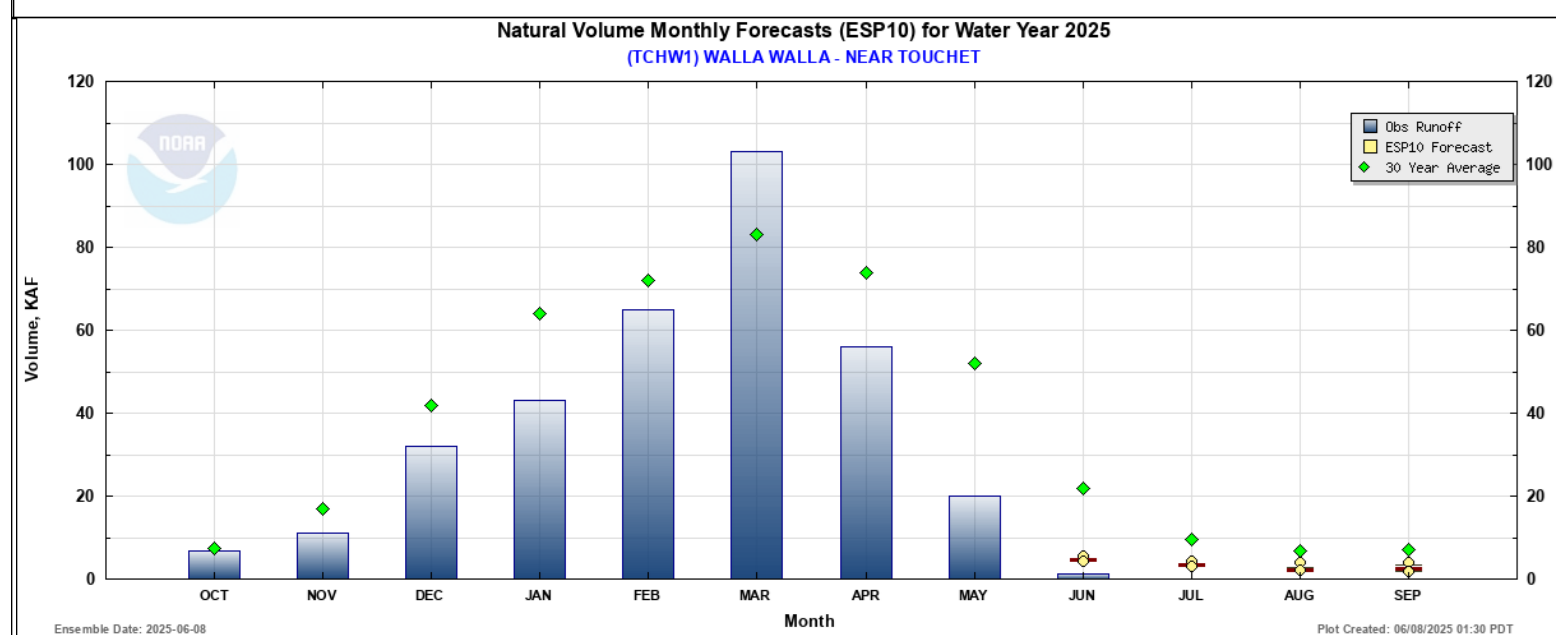
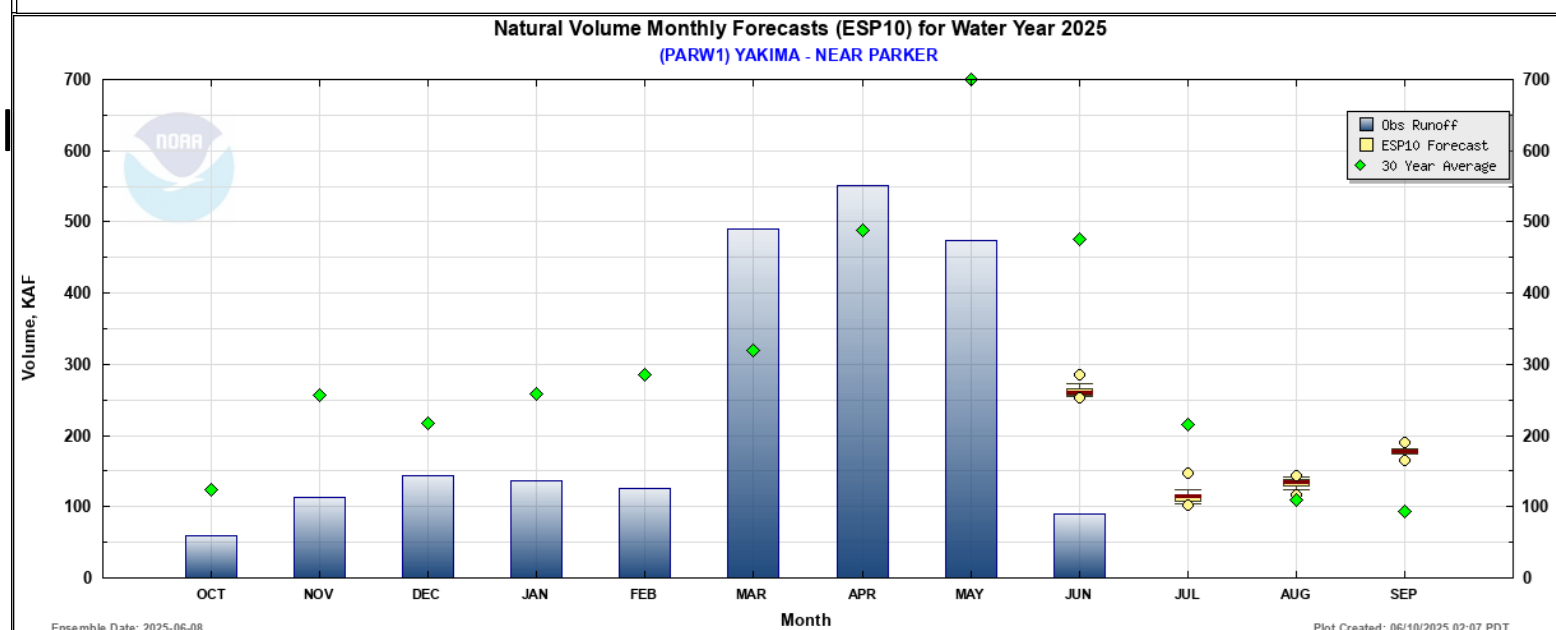
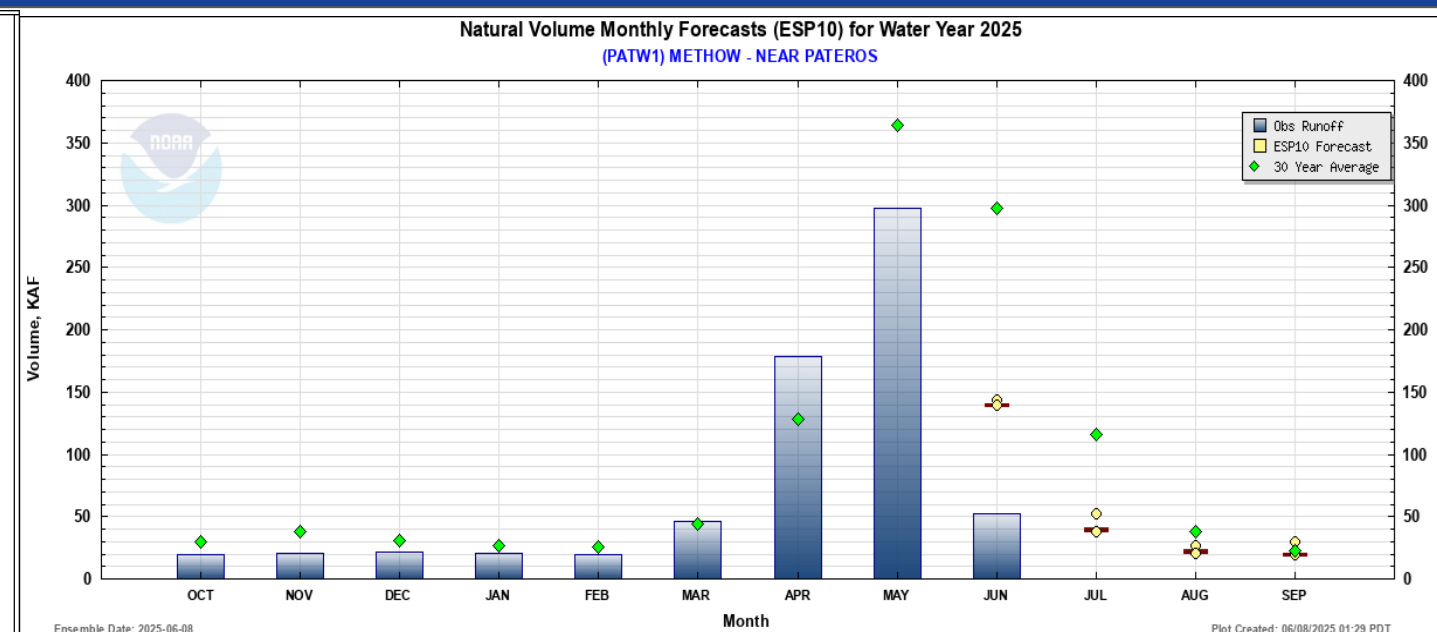
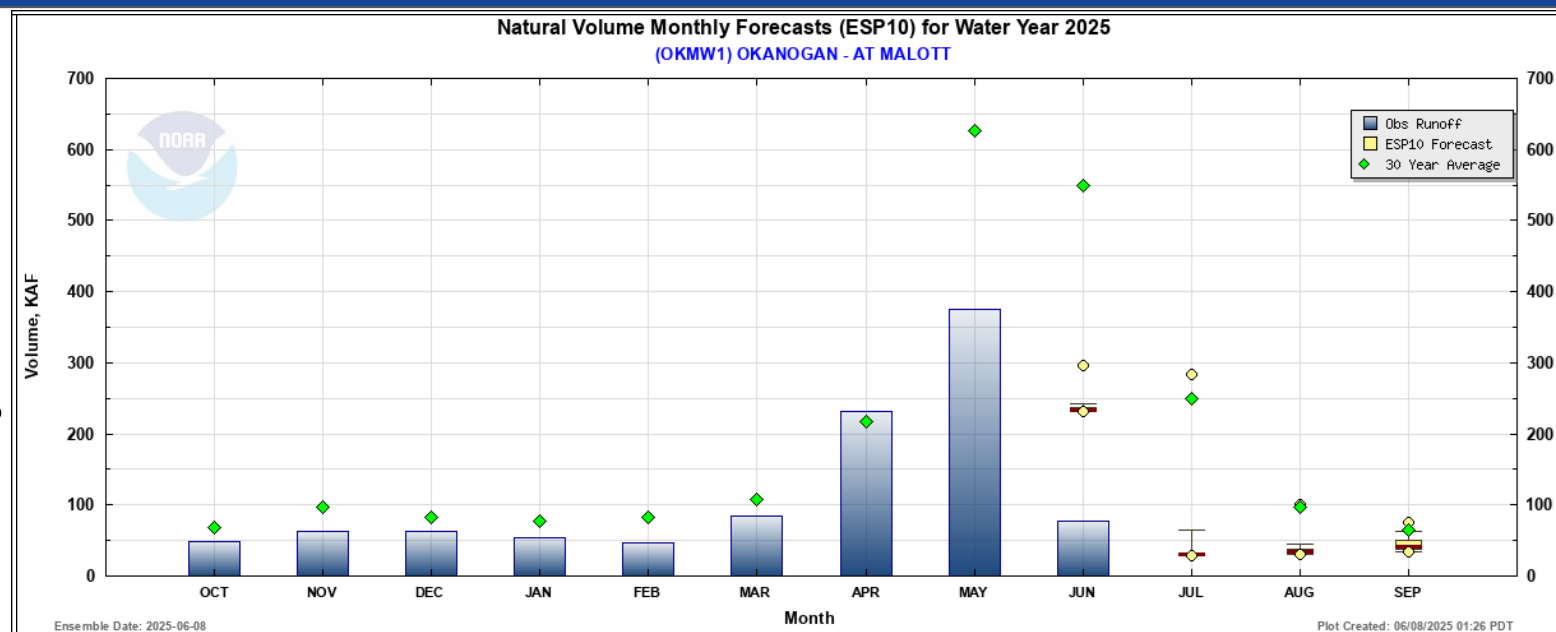
WY Runoff and Apr - Sep Forecasts

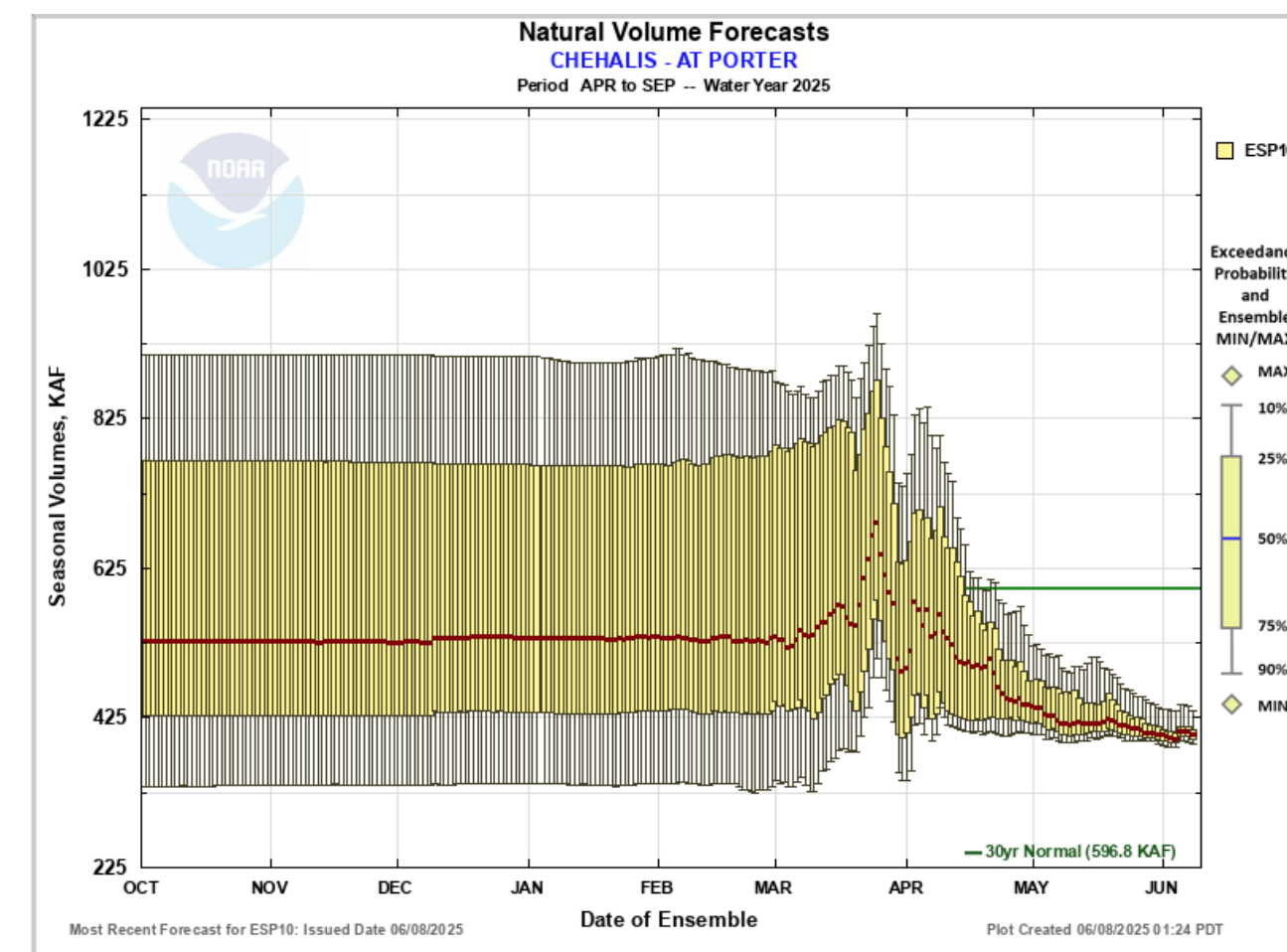
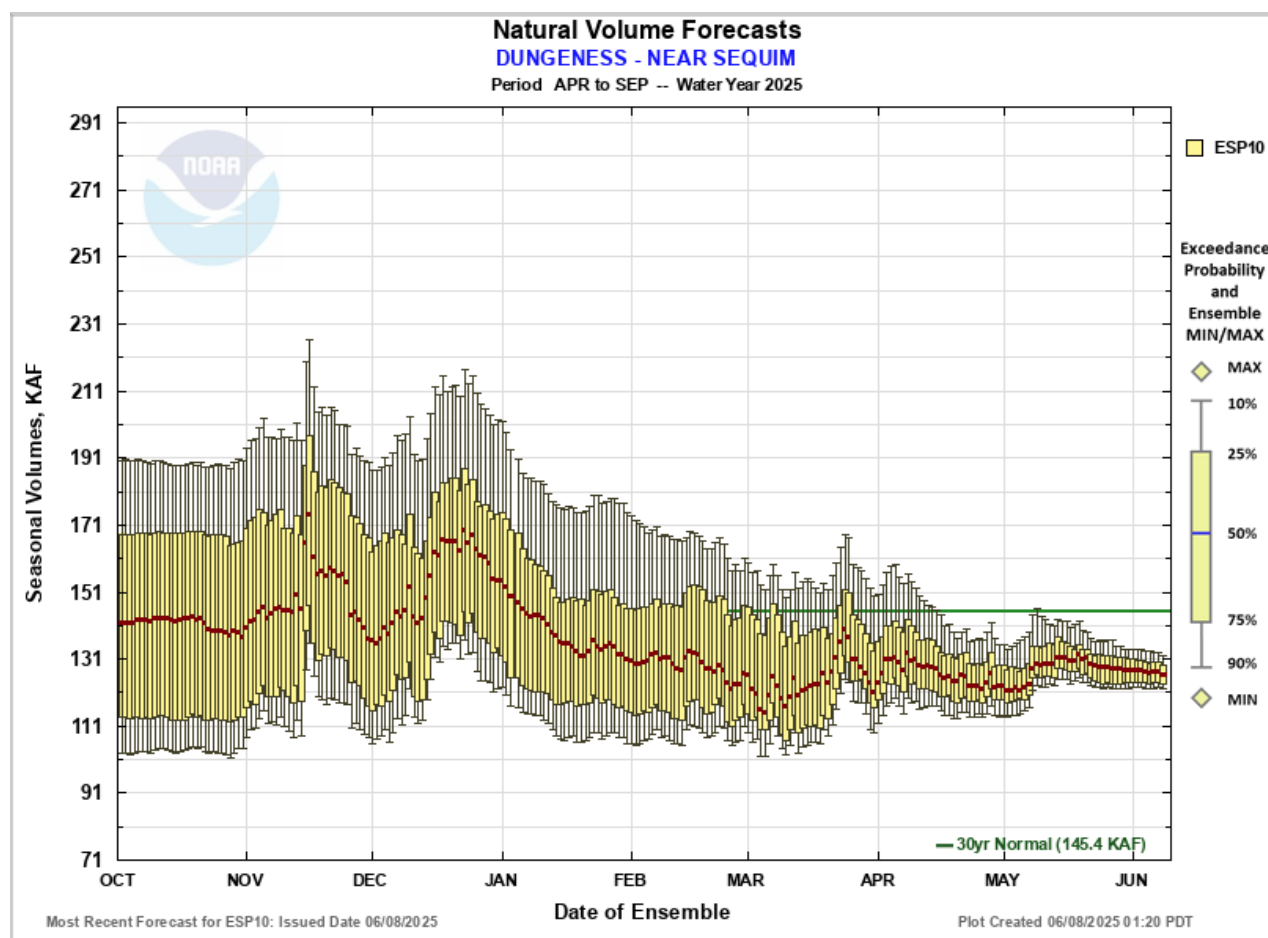
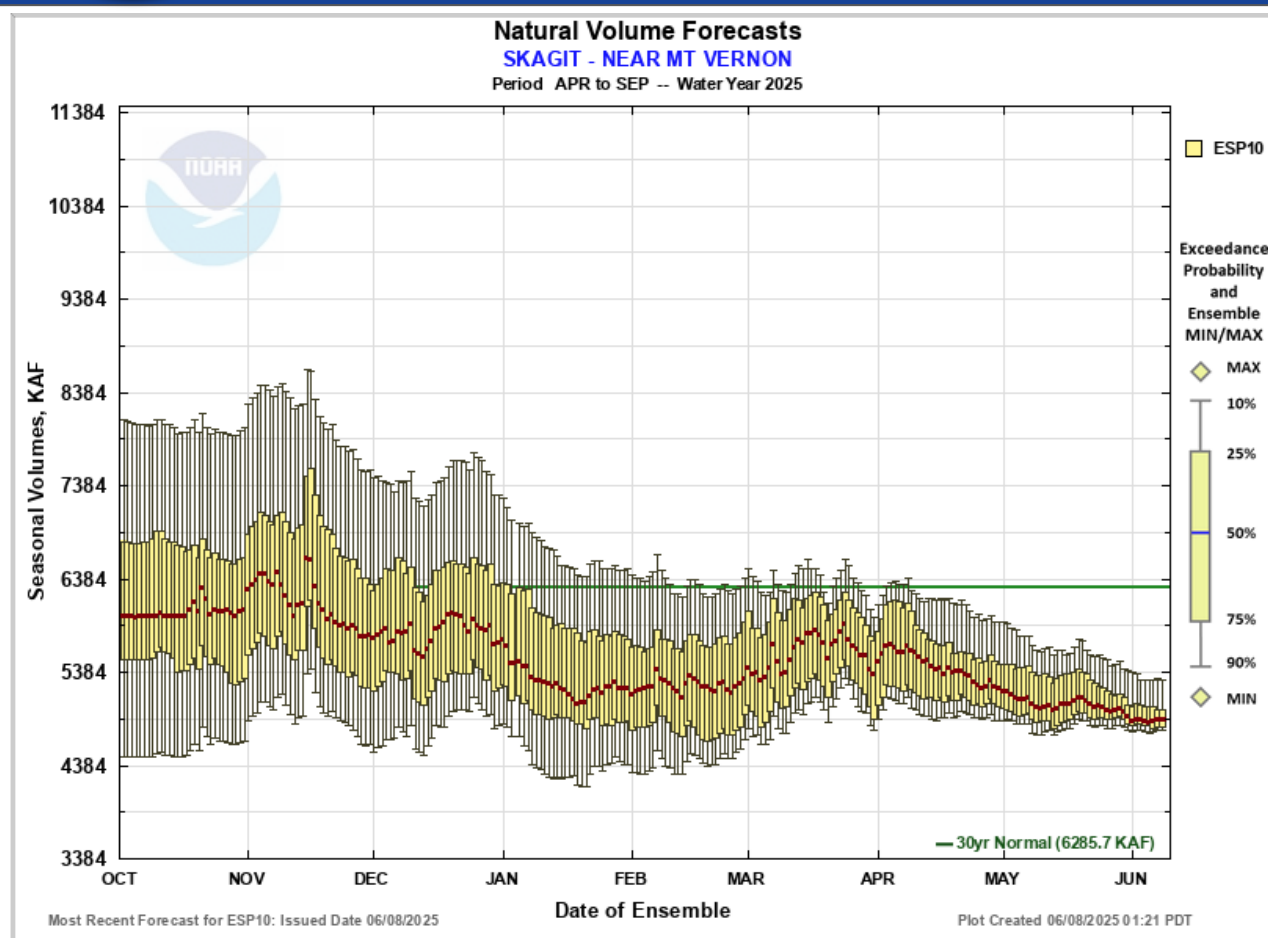


- Runoff was below normal in January and Feb
- March and April runoff was a mix of higher and lower than normal
- Monthly runoff May was below normal
- Expect the rest of the year will be below normal



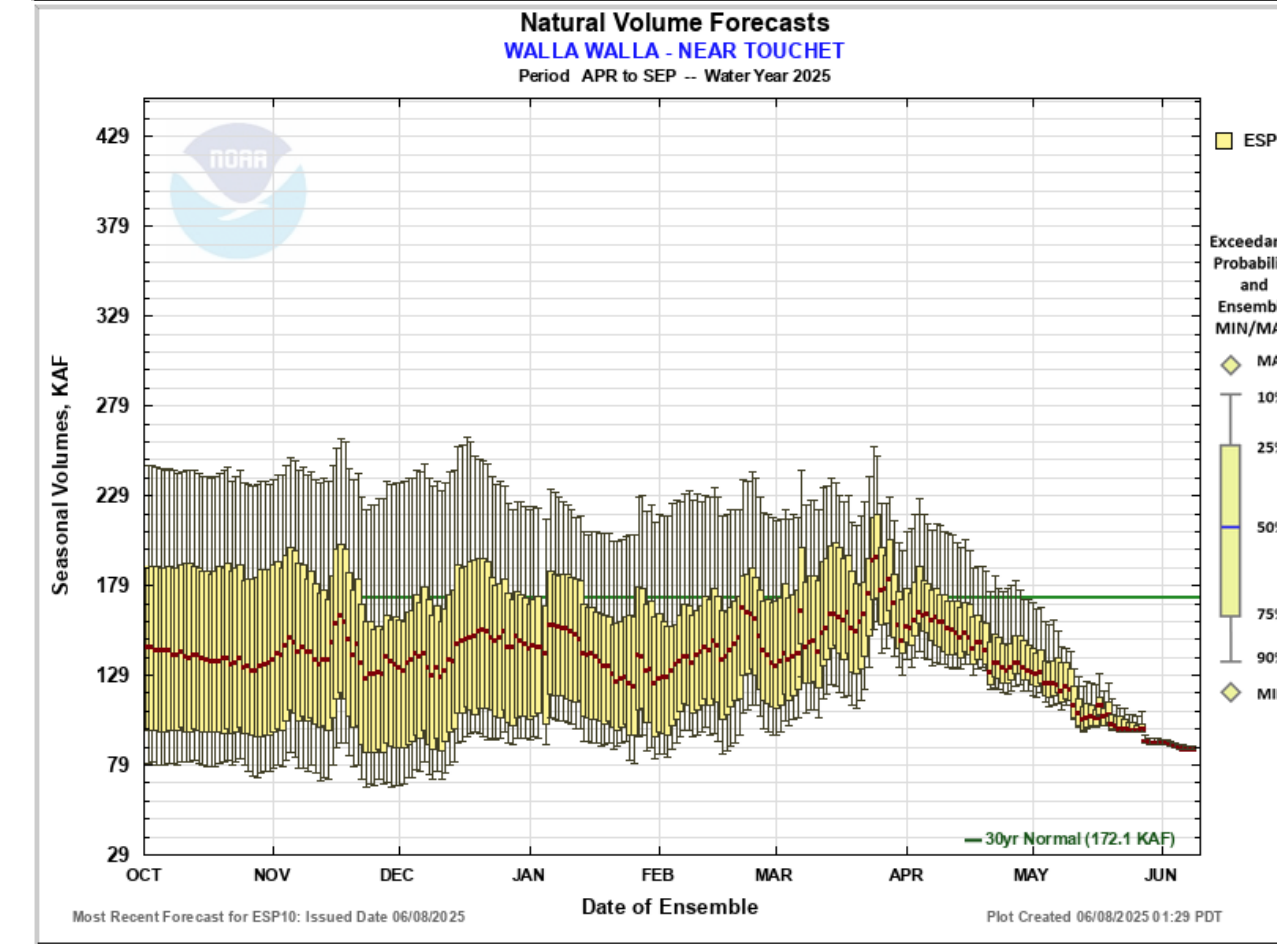
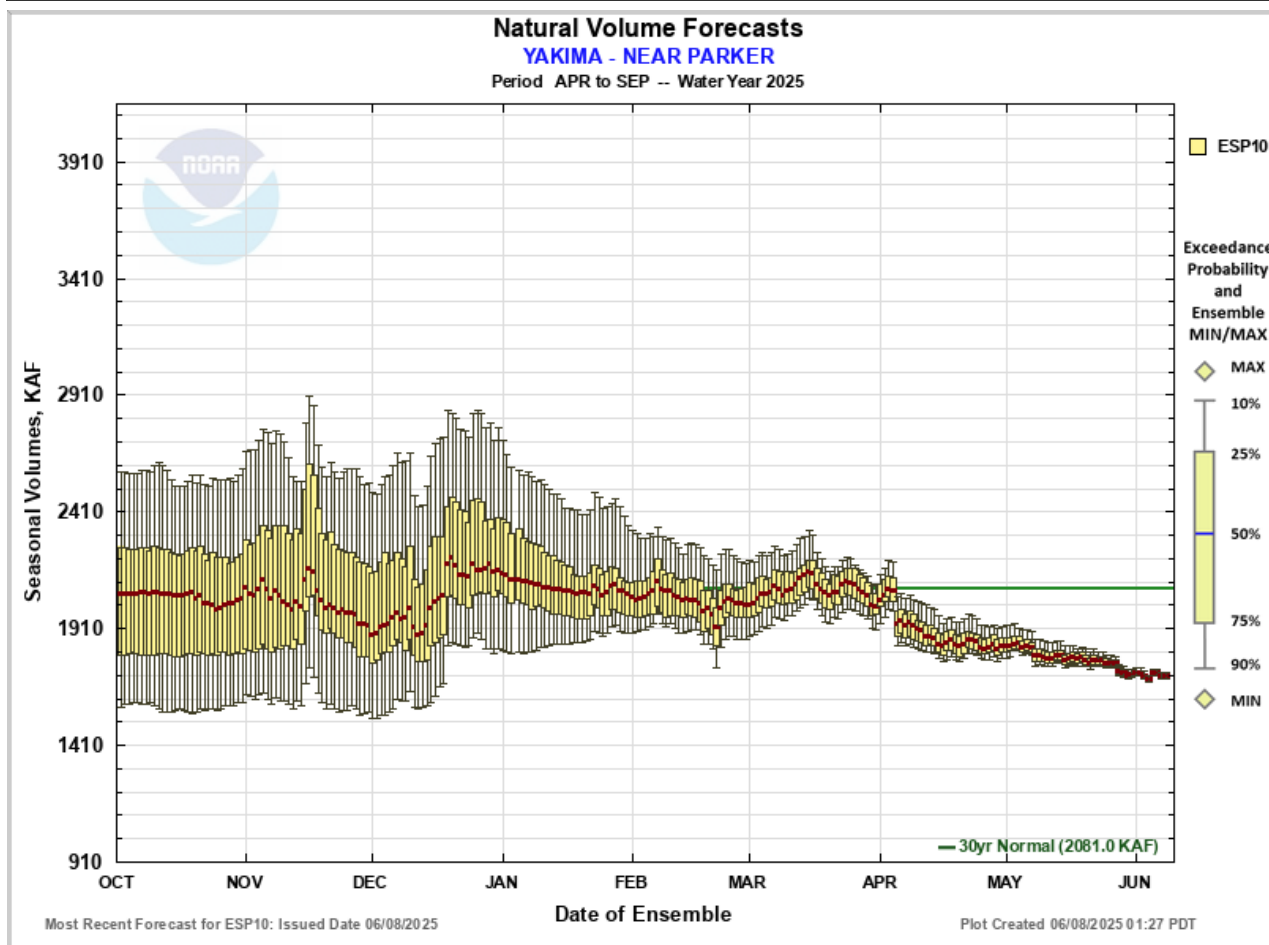
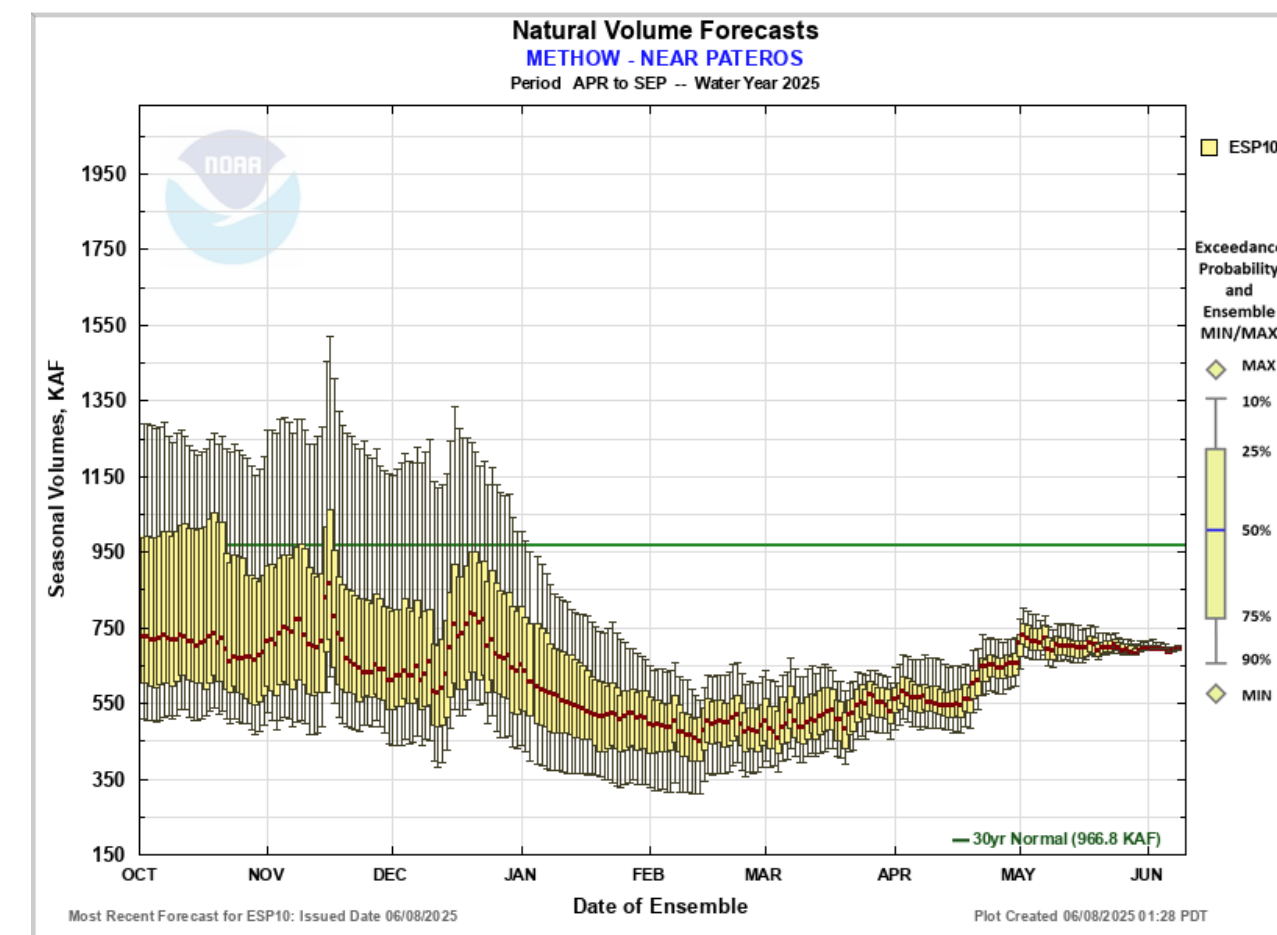
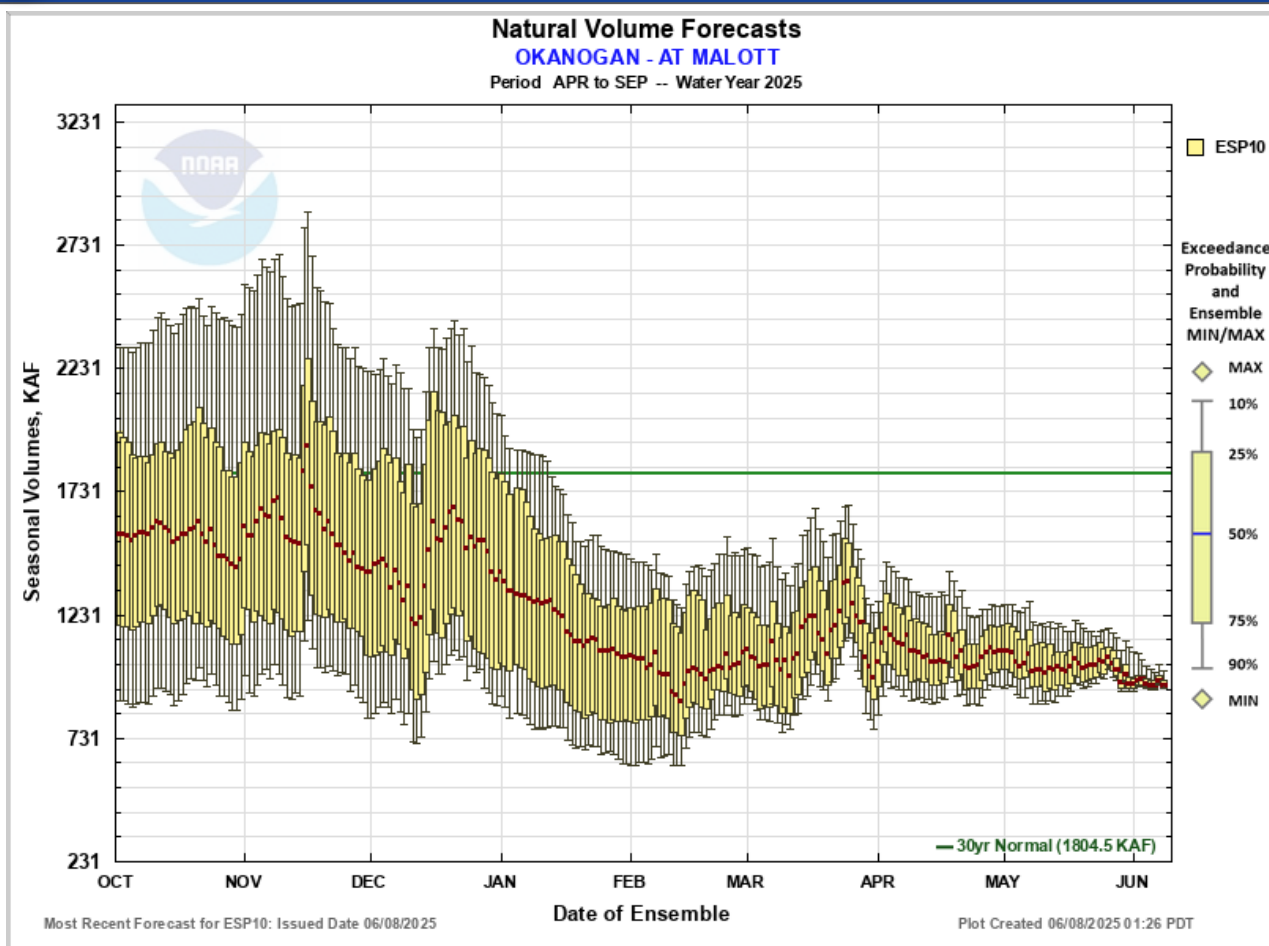
- March and April runoff was a mix of higher and lower than normal
- Speculation: snow melt runoff being shifted earlier in spring caused the normal to above normal volumes for March and possibly some of April's
- Monthly runoff May was well below normal
- Expect the rest of the year will be below normal







Forecasts



Takeaways

- May was dry compared to normal
- May runoff was below normal. Low snowmelt driven, timing.
- Precipitation forecasts for the next 10 days is well below normal.
- Apr-Sep river forecasts are significantly lower than normal, lower than last month, and continue the trend to lower volumes.