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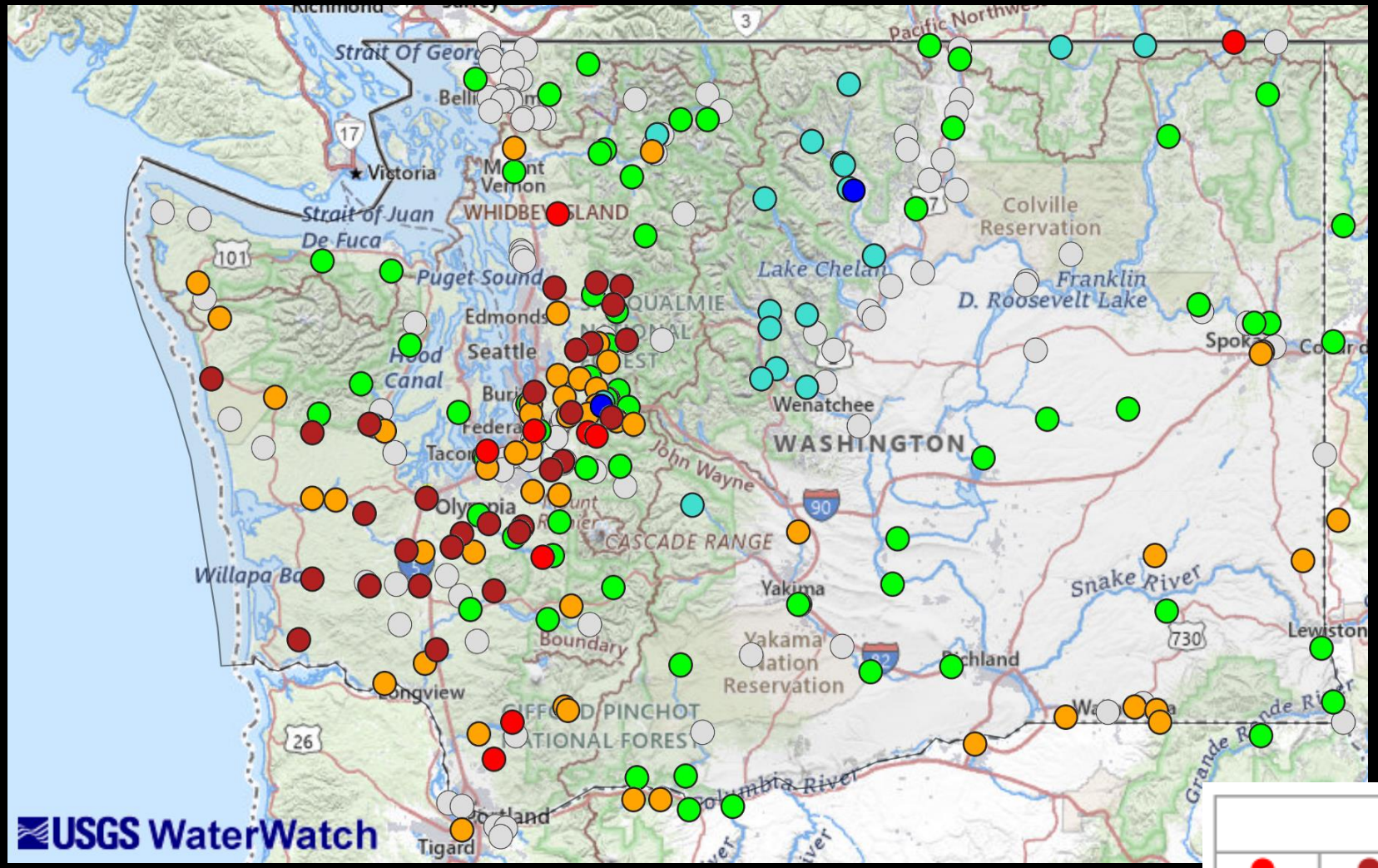
Streamflow & Groundwater Conditions in Washington State as of 7 May 2025

Presented on 8 May 2025
to the Washington Water Supply Availability Committee
by Nicholas Sutfin,
nsutfin@usgs.gov
USGS Washington Water Science Center

7-day Average Streamflow

Conditions as of 7 May 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 Not for Citation or Distribution.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

https://waterwatch.usgs.gov/index.php?id=pa07d&sid=w__gmap&r=wa

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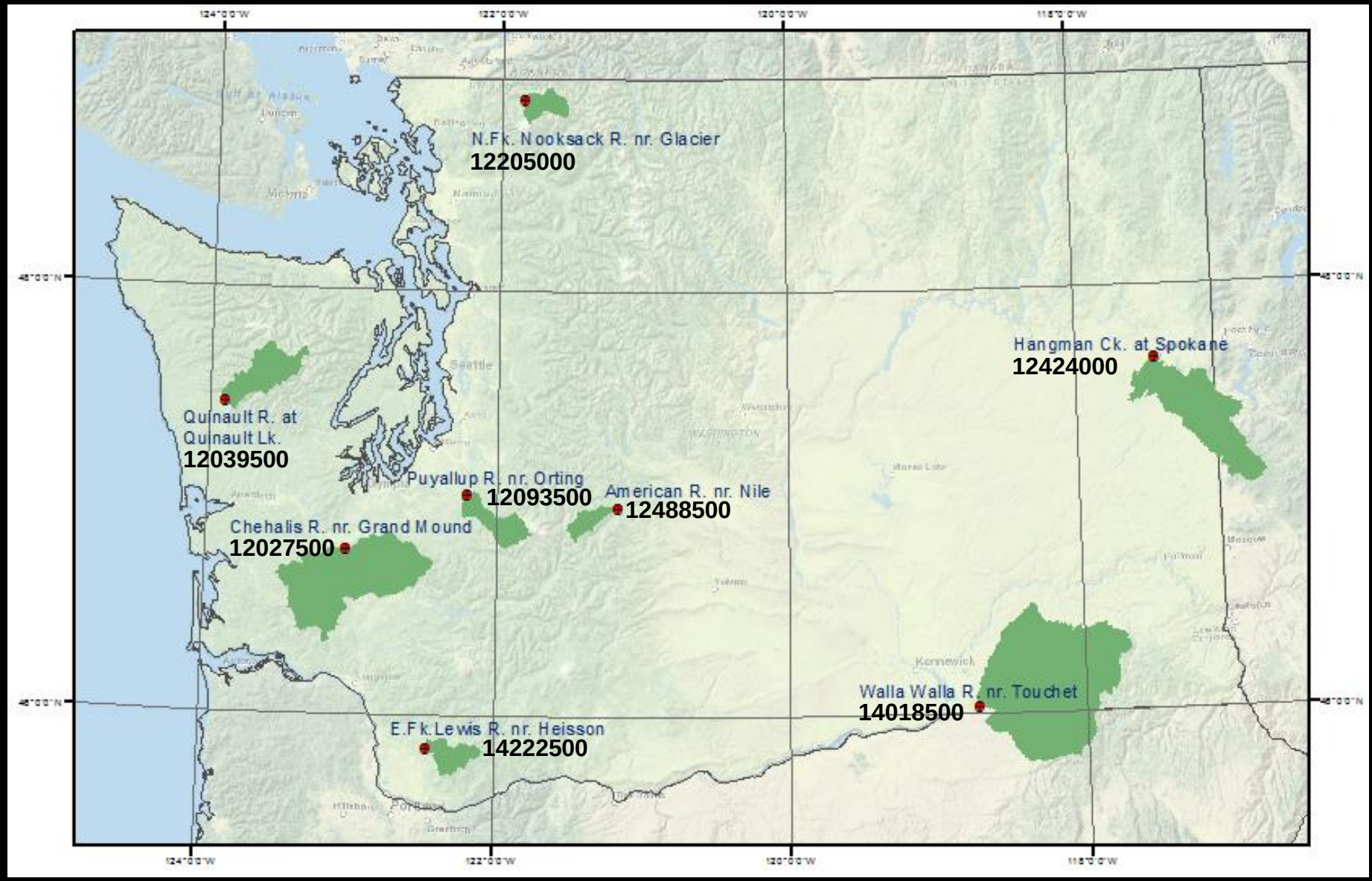
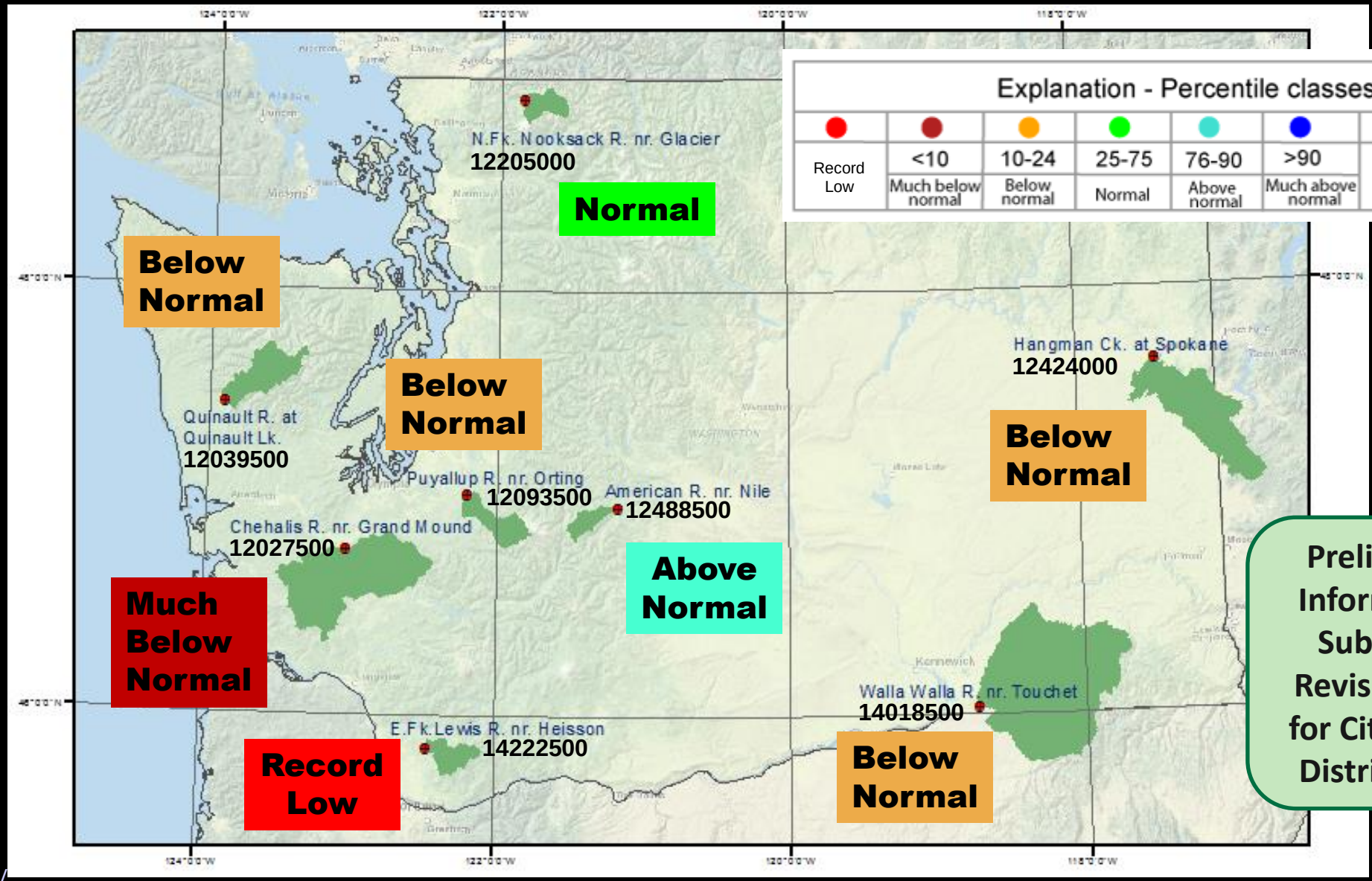
Index Gaging Stations

(Stations that measure natural or near-natural streamflow)



Index Gaging Stations

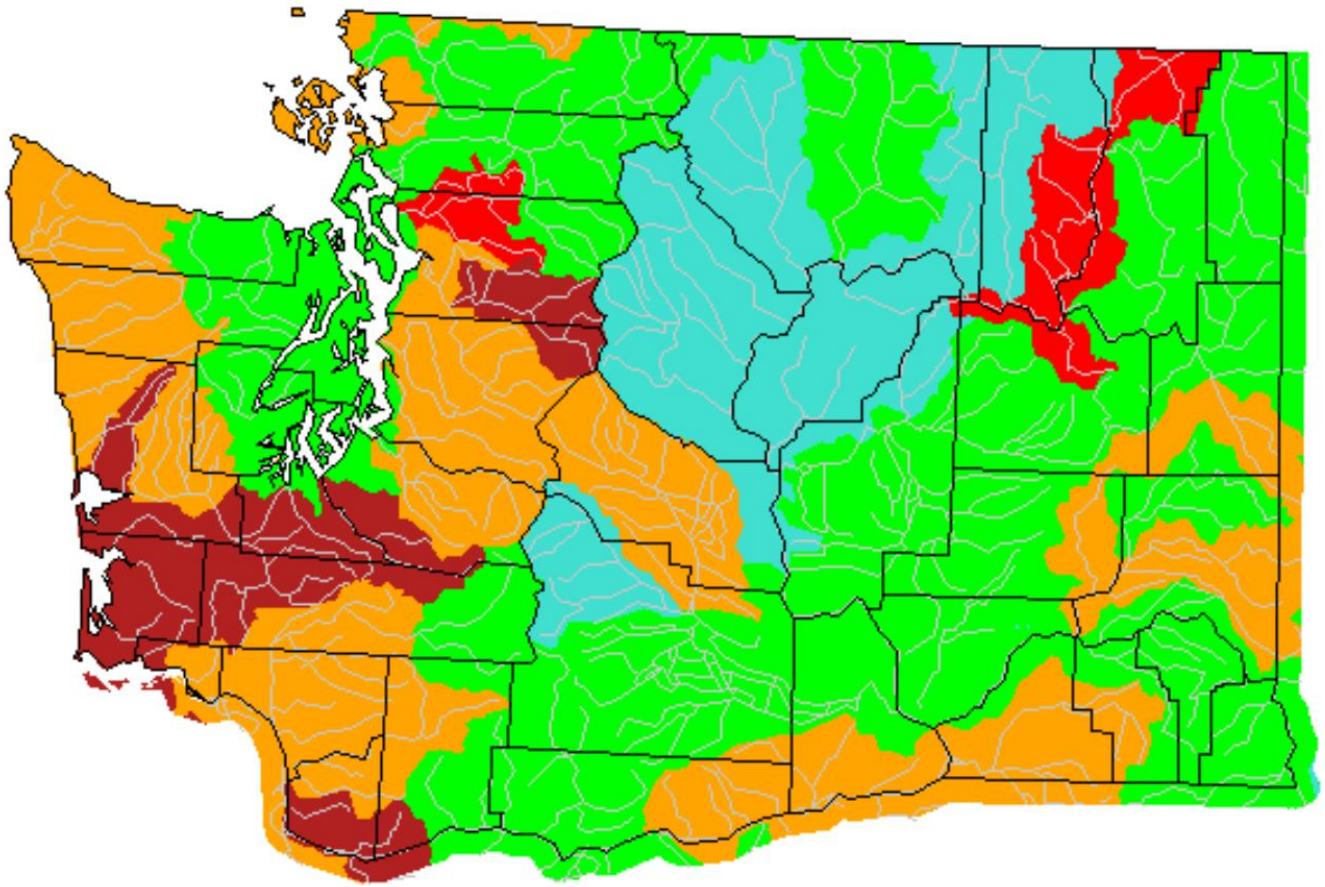
7-day average streamflow as of 7 April 2025



https://waterwatch.usgs.gov/

Average streamflow
compared to historical streamflow

Current area-weighted 7-day average as of 7 May 2025



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 Not for Citation or Distribution.

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7-day average streamflow

Most USGS stream gages at **normal** as of 7 May 2025

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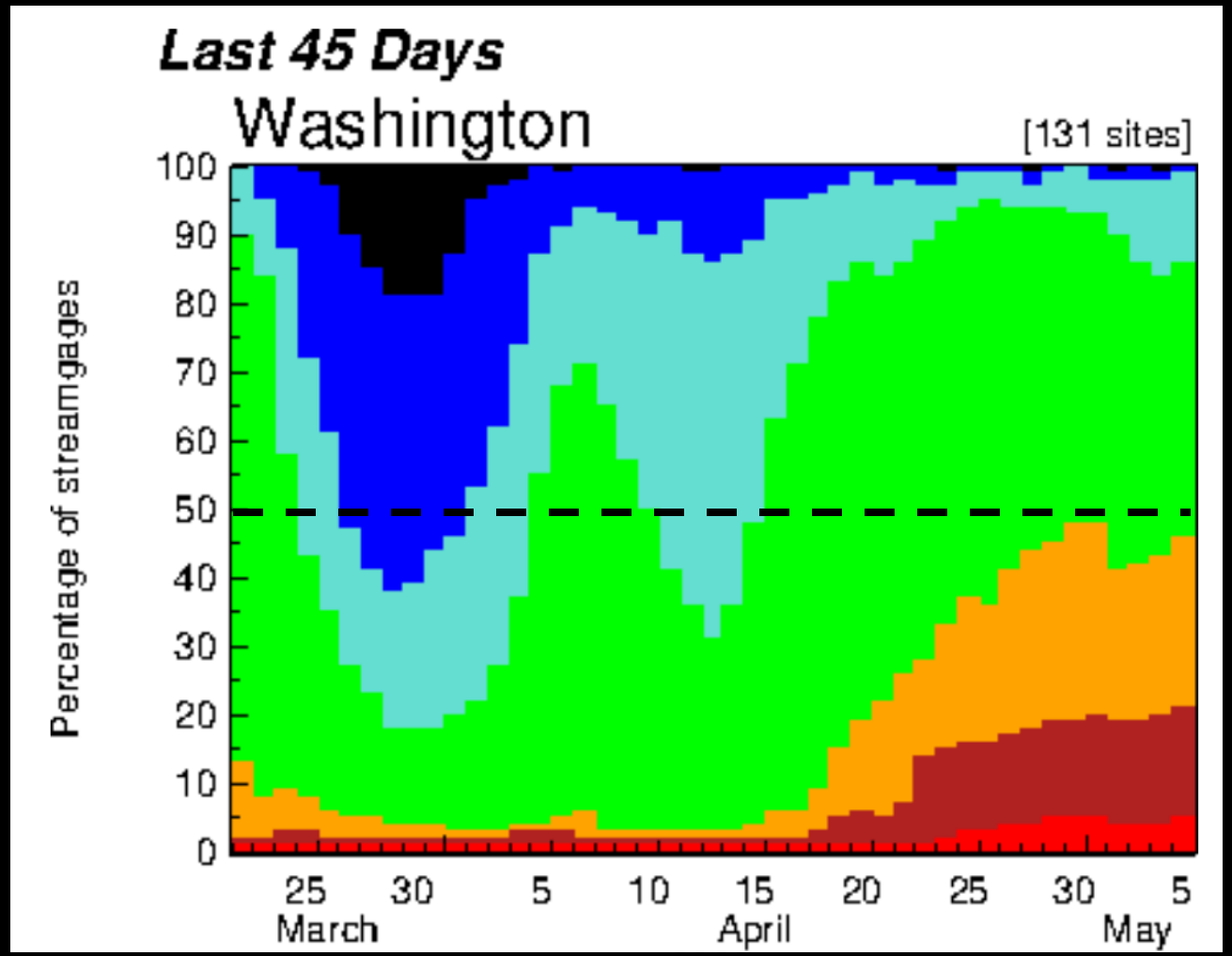

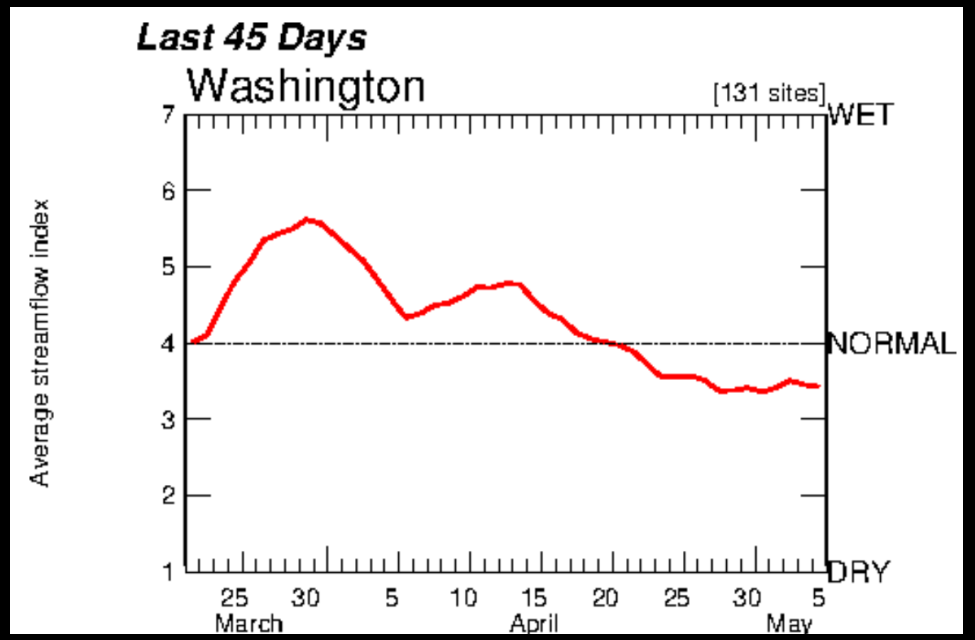

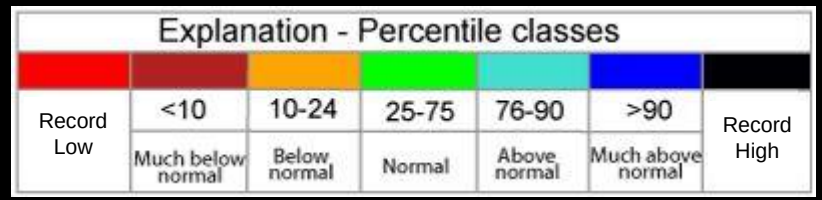

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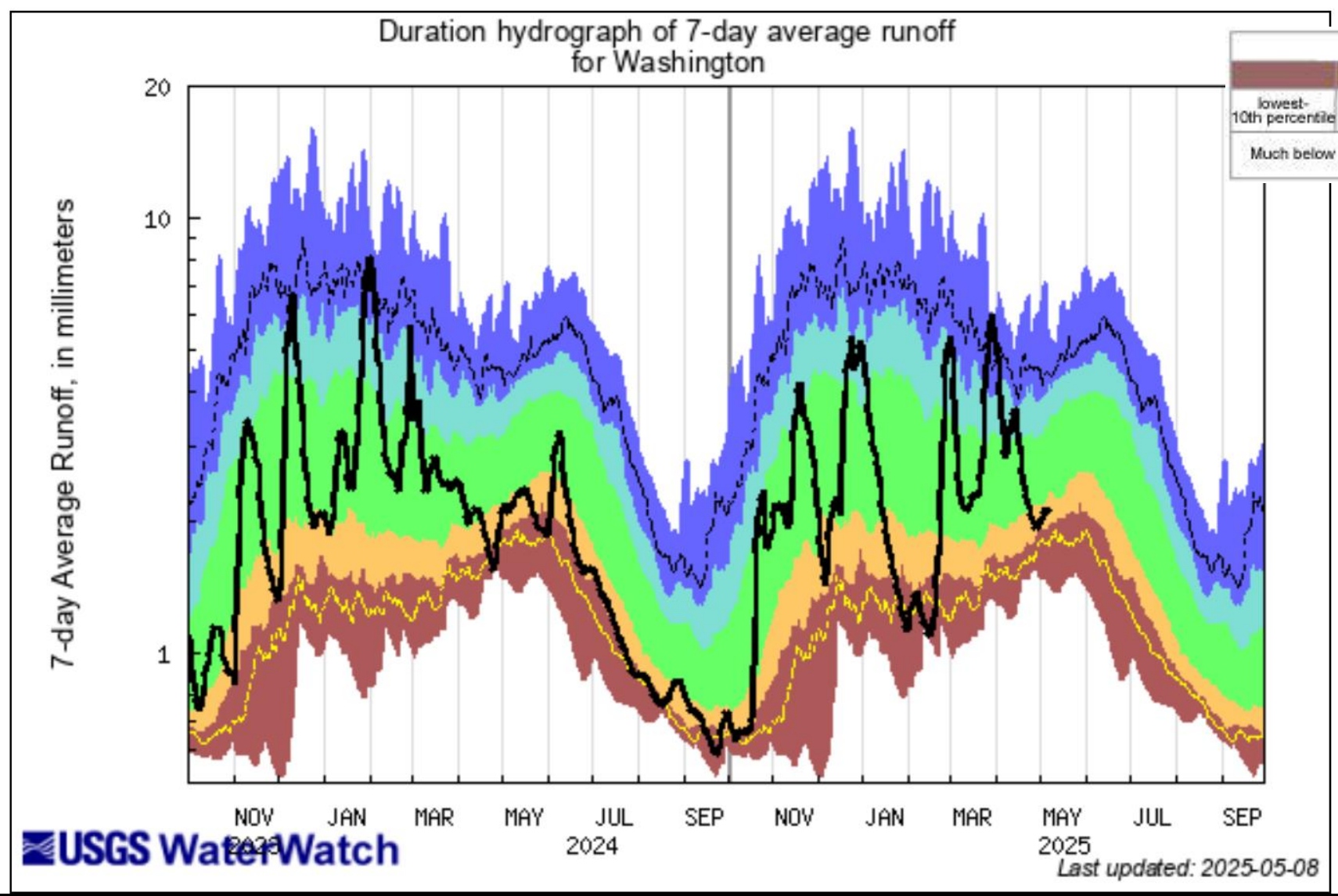
Area-Based Runoff Duration Hydrograph

7-day average streamflow



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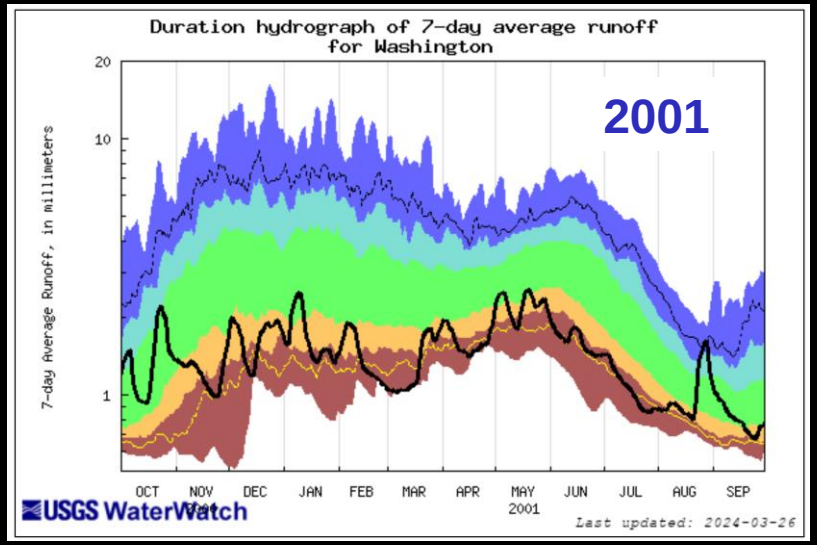
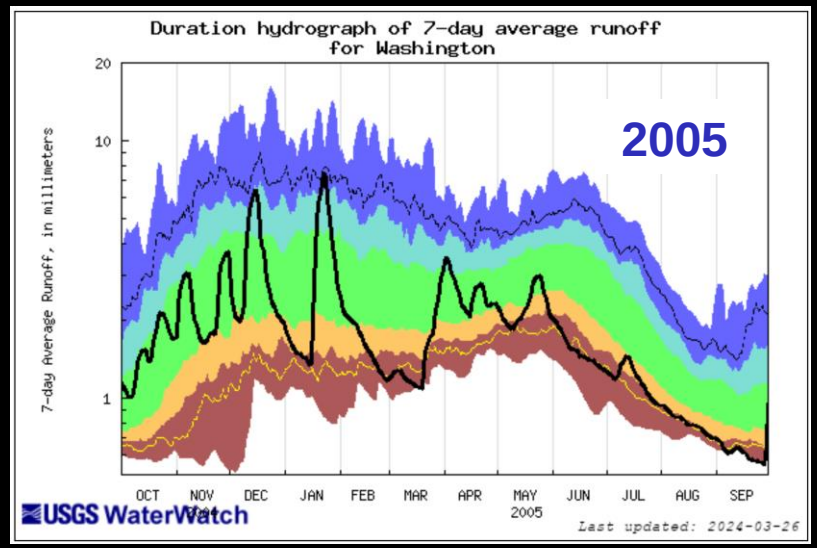
For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.

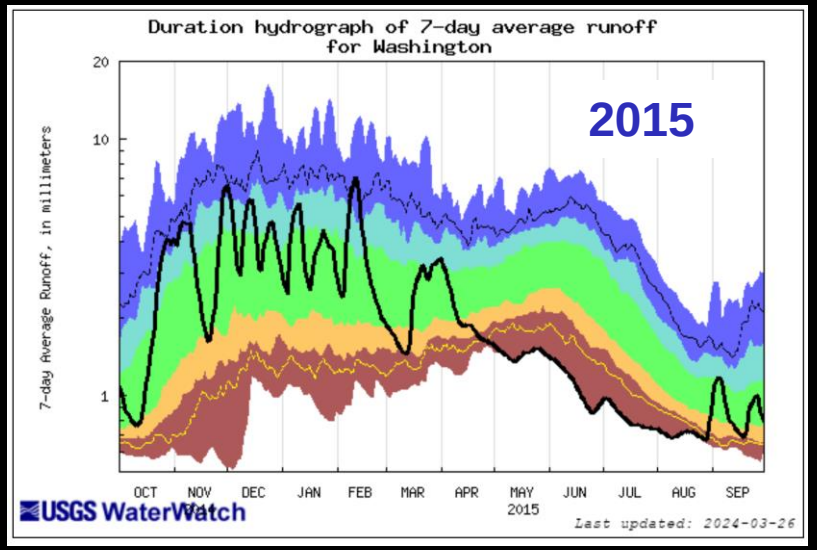
https://waterwatch.usgs.gov/

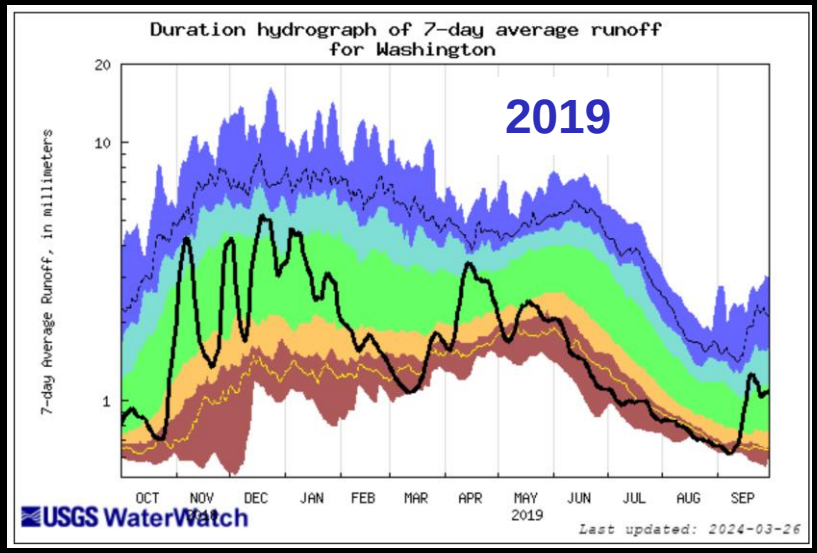
Area-Based Runoff Duration Hydrograph

7-day average streamflow

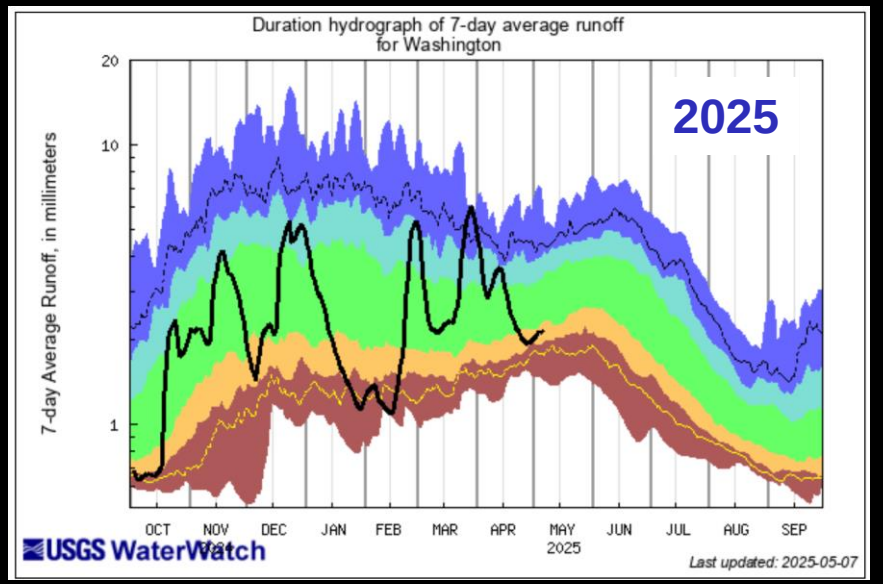


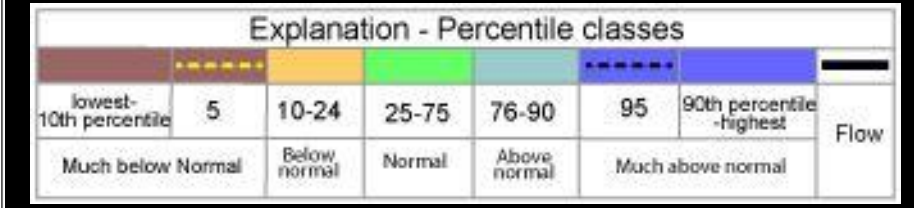






Duration hydrograph for the year compared to recent years of drought





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Monthly average streamflow

compared to historical streamflow

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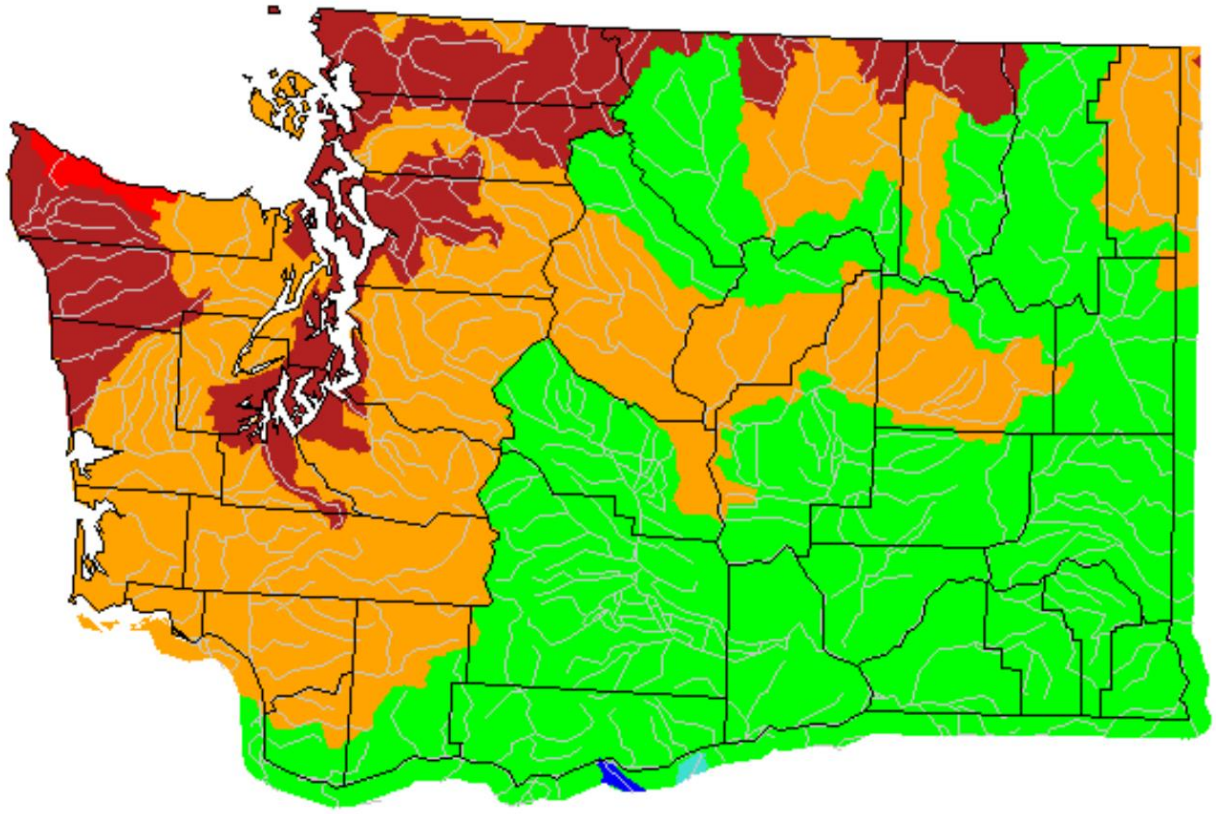
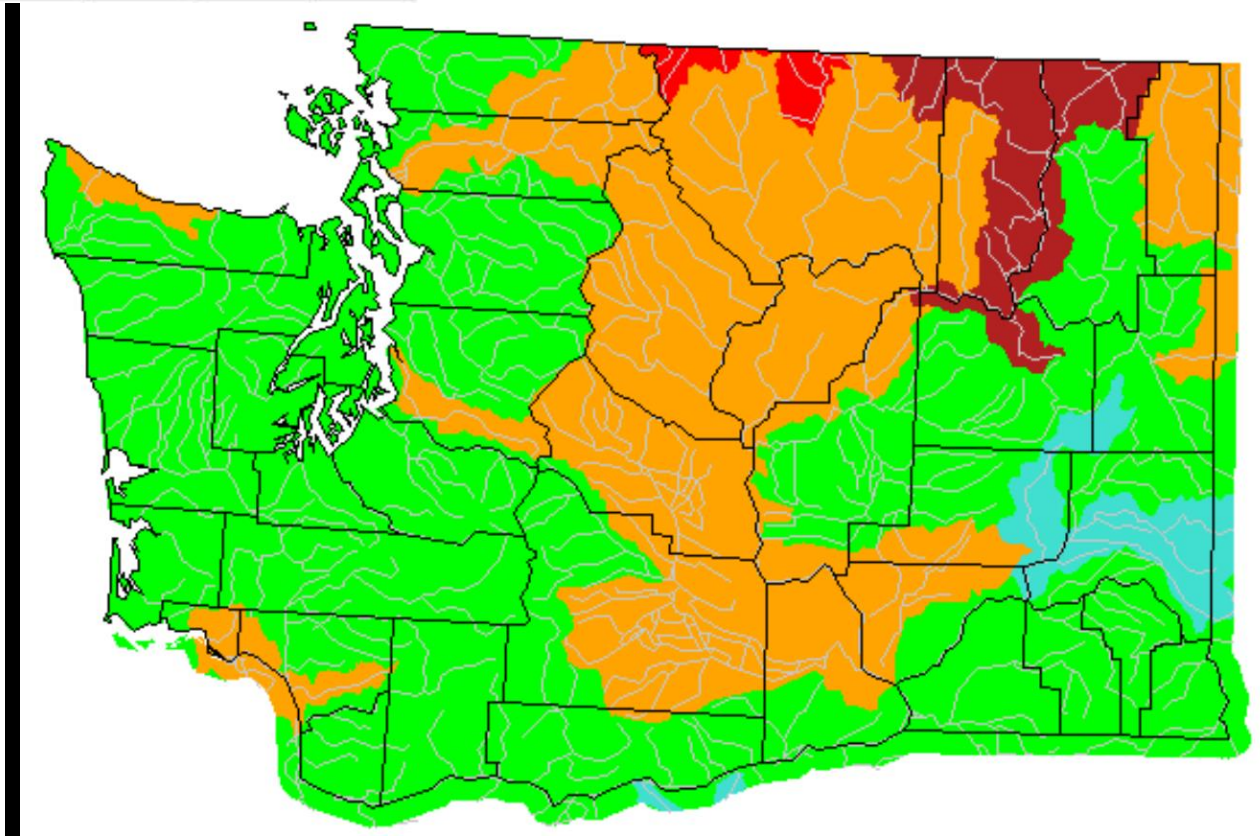
Explanation - Percentile classes						
Record Low	<10	10-24	25-75	76-90	>90	Record High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

January 2025



February 2025



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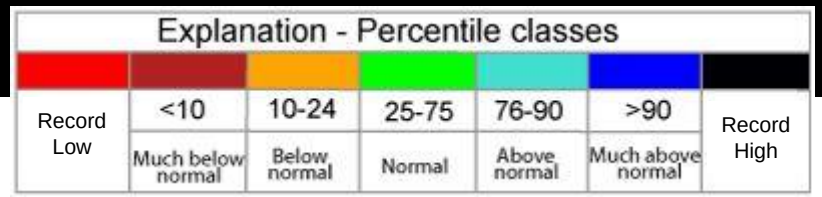
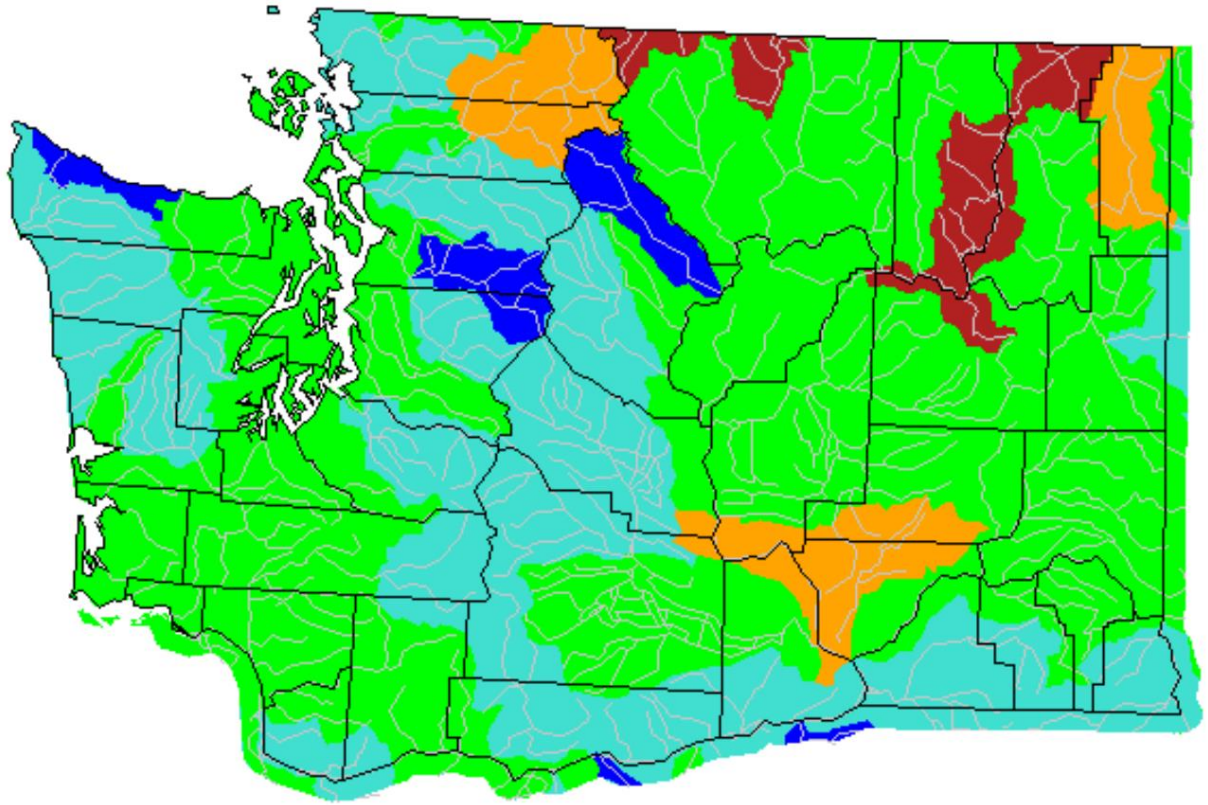
Monthly average streamflow

compared to historical streamflow

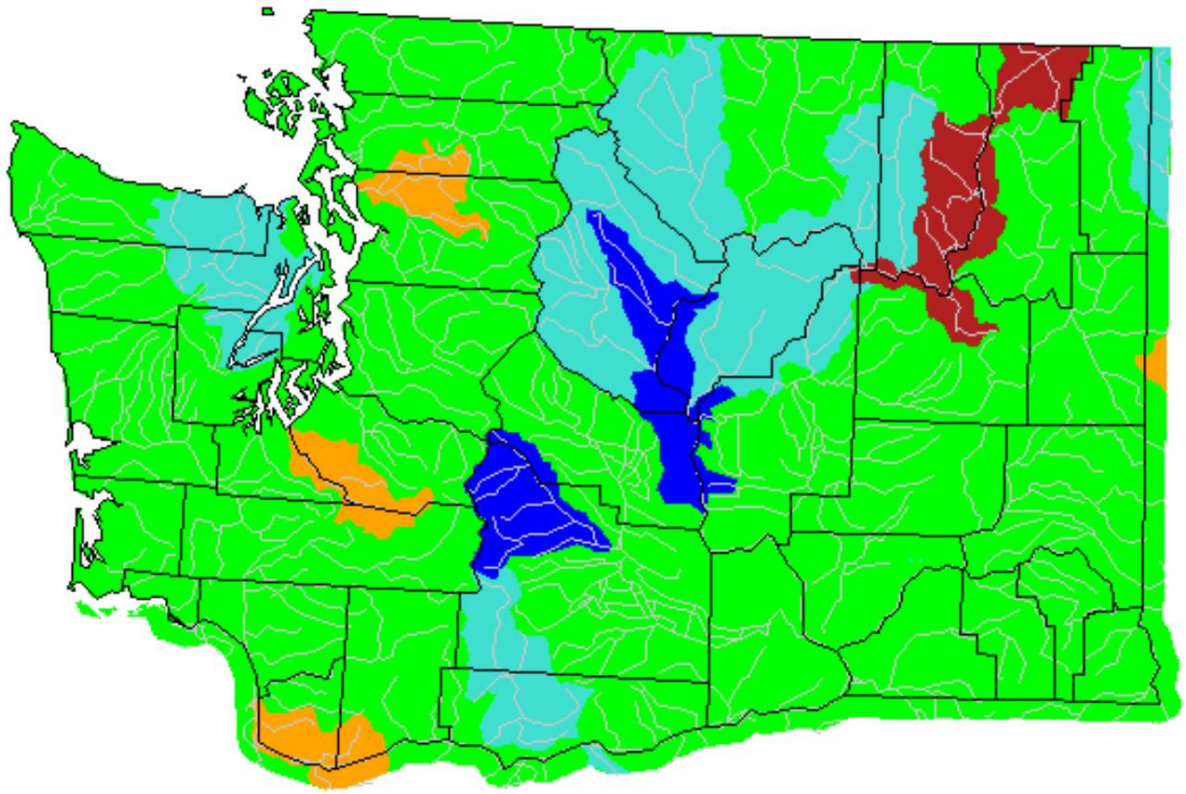
USGS science for a changing world



March 2025



April 2025



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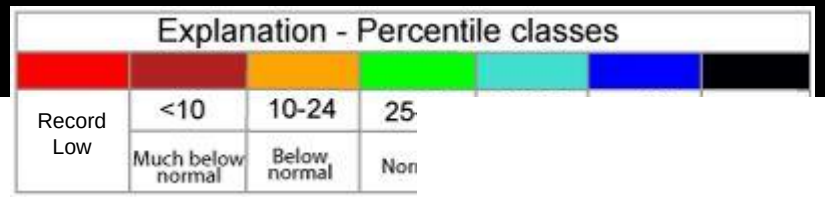
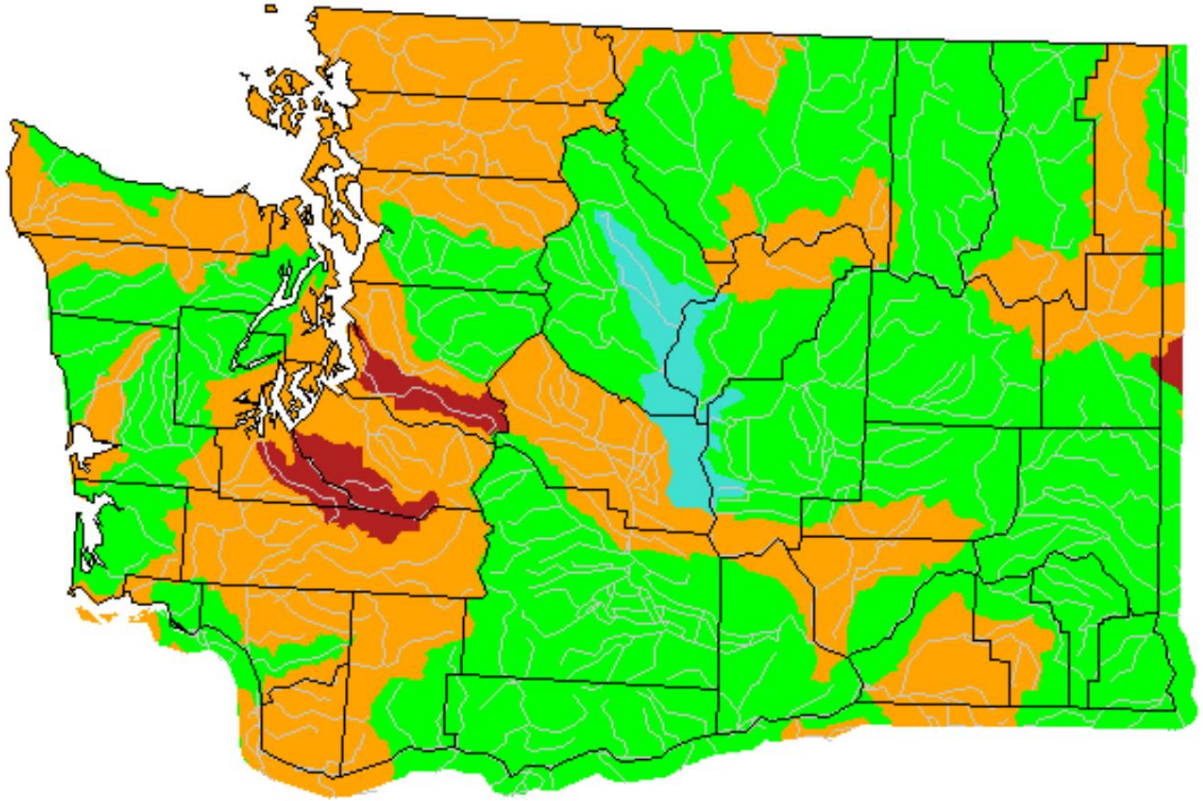
Monthly average streamflow

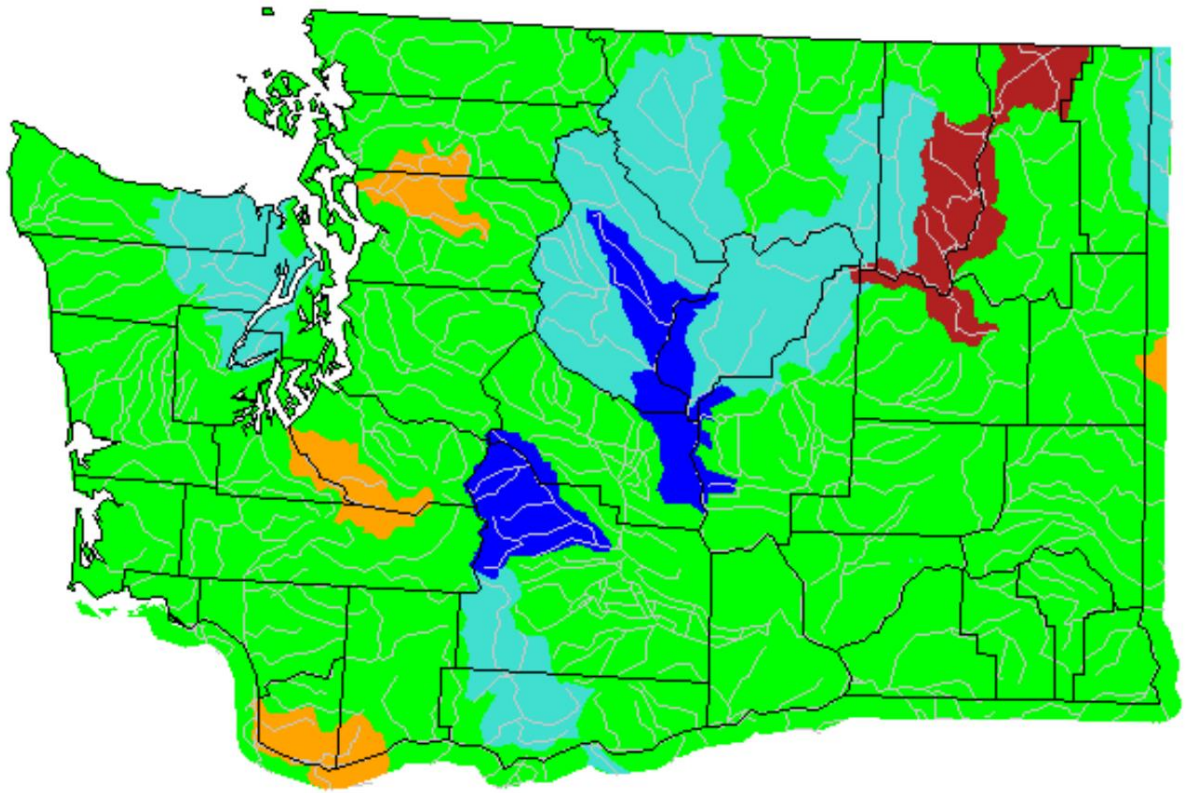
compared to historical streamflow



April 2024



April 2025



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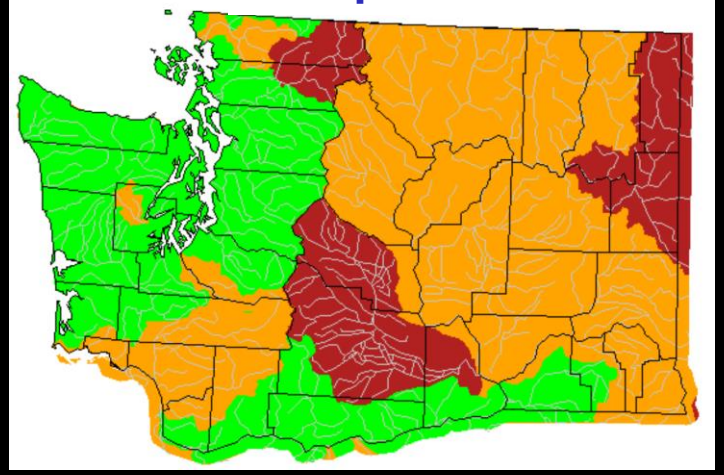
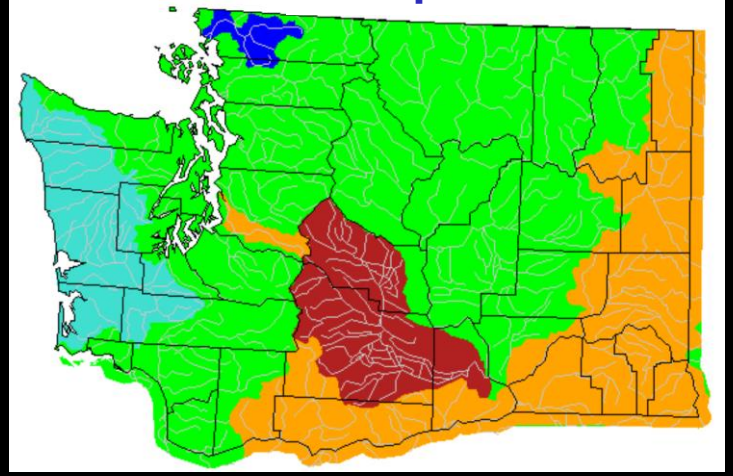
Monthly average streamflow

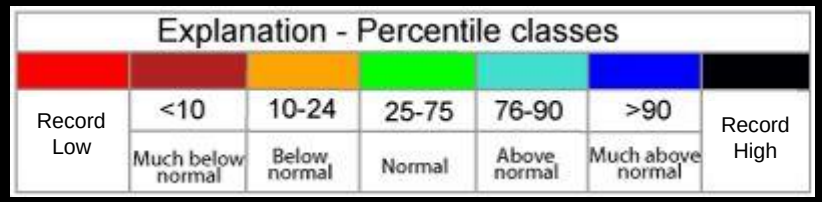
compared to historical streamflow

April 2001



April 2005





https://waterwatch.usgs.gov/

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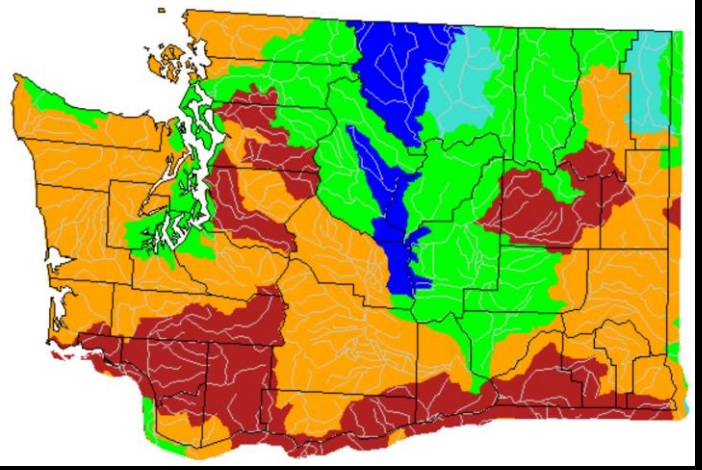
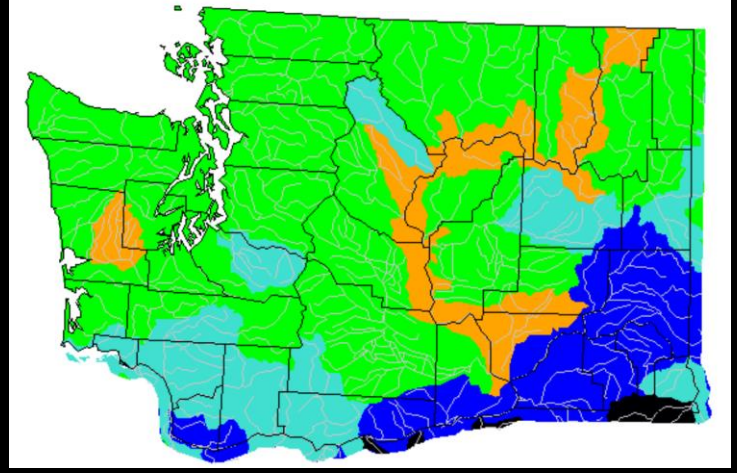
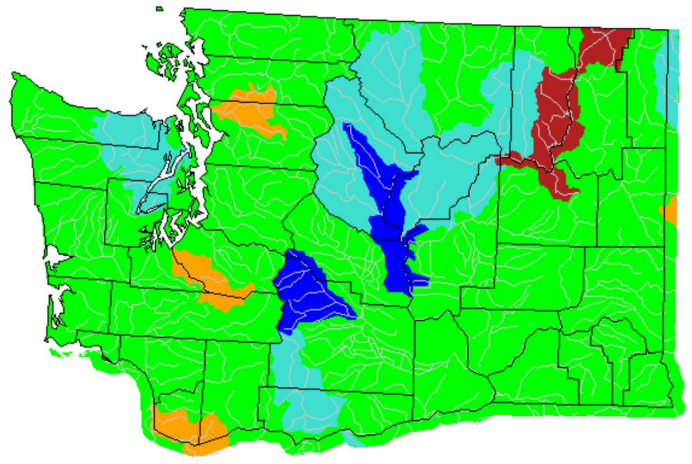
April 2015



April 2019



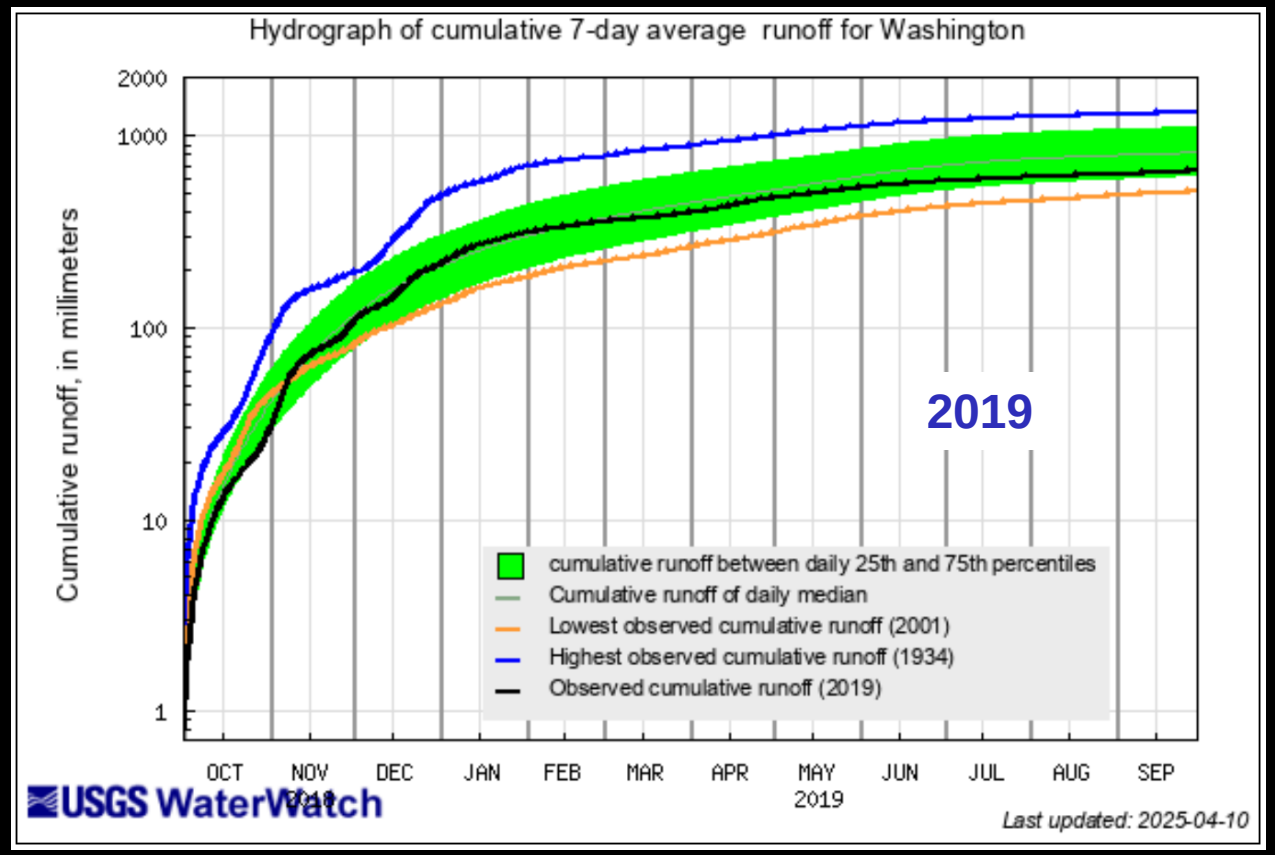
April 2025



Cumulative runoff hydrograph

Area-based runoff based on 7-day average

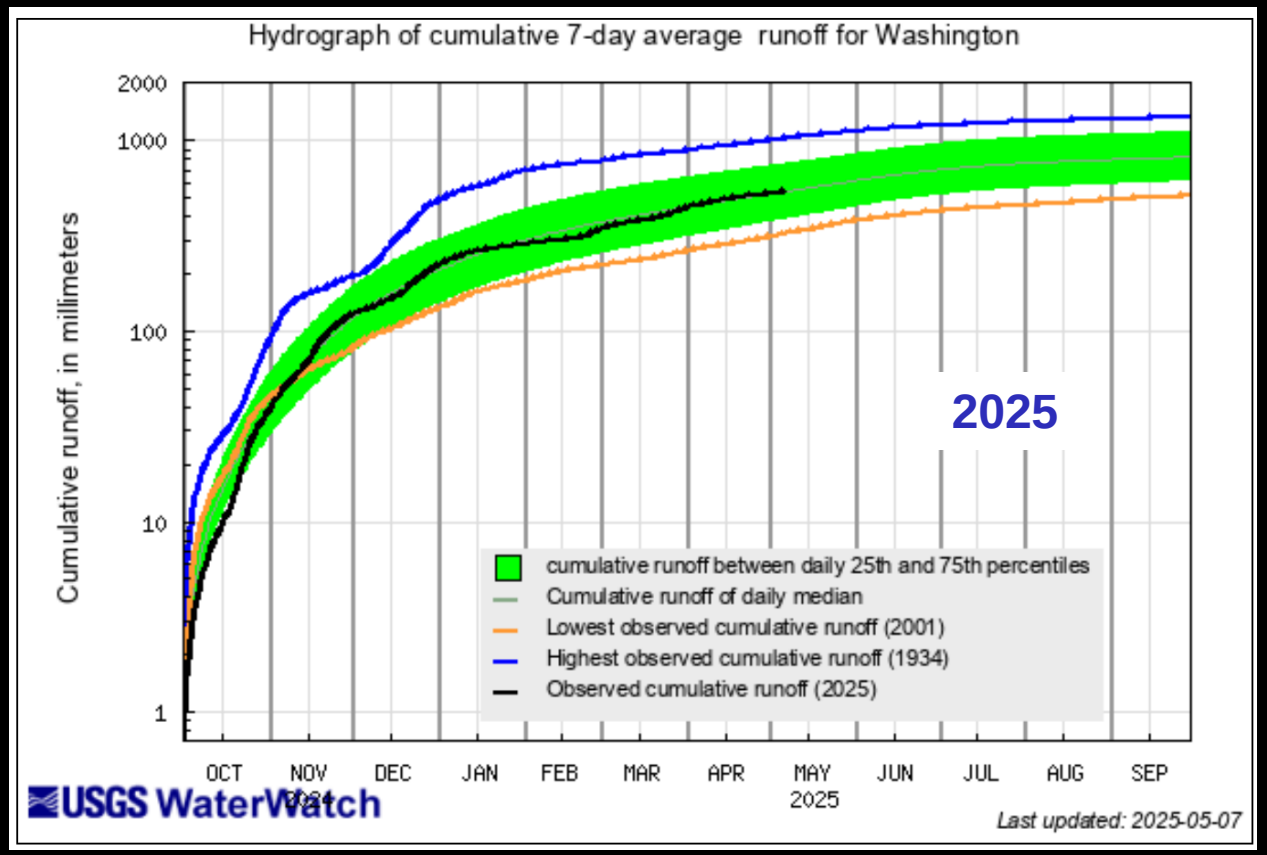
Normal for 2025 water year as of 7 April



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.
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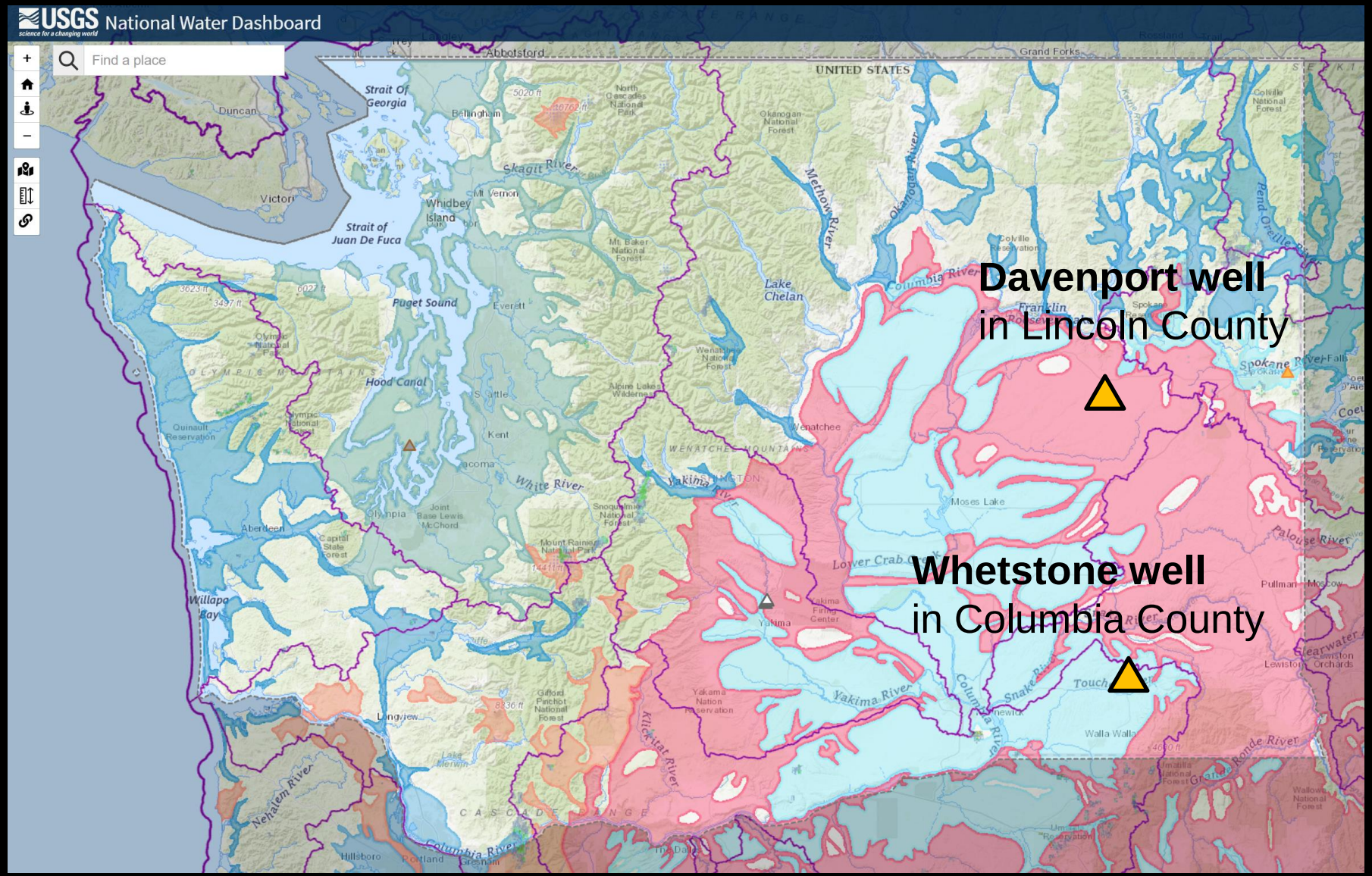
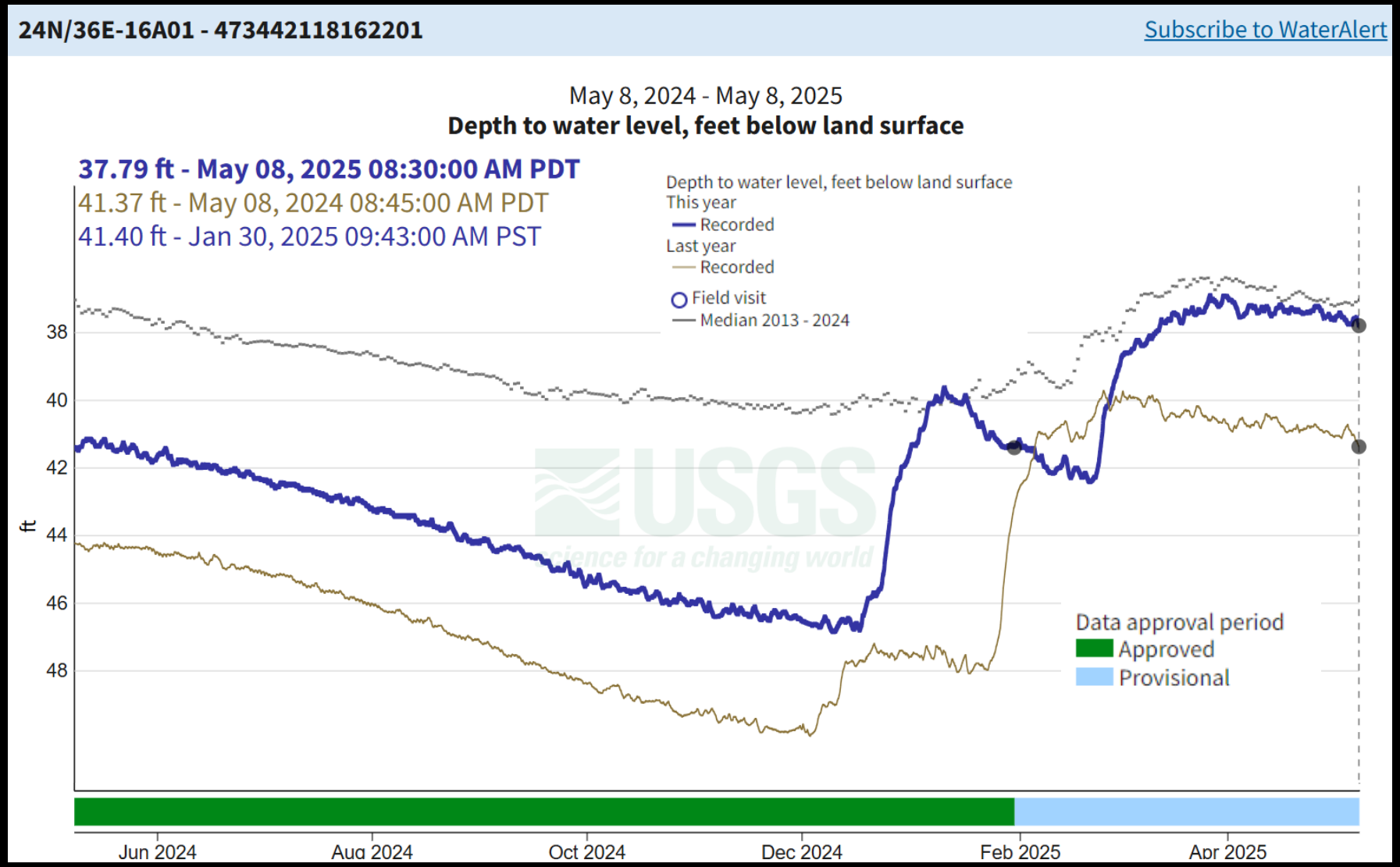
Two reference groundwater wells



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

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

Davenport Well Groundwater Conditions



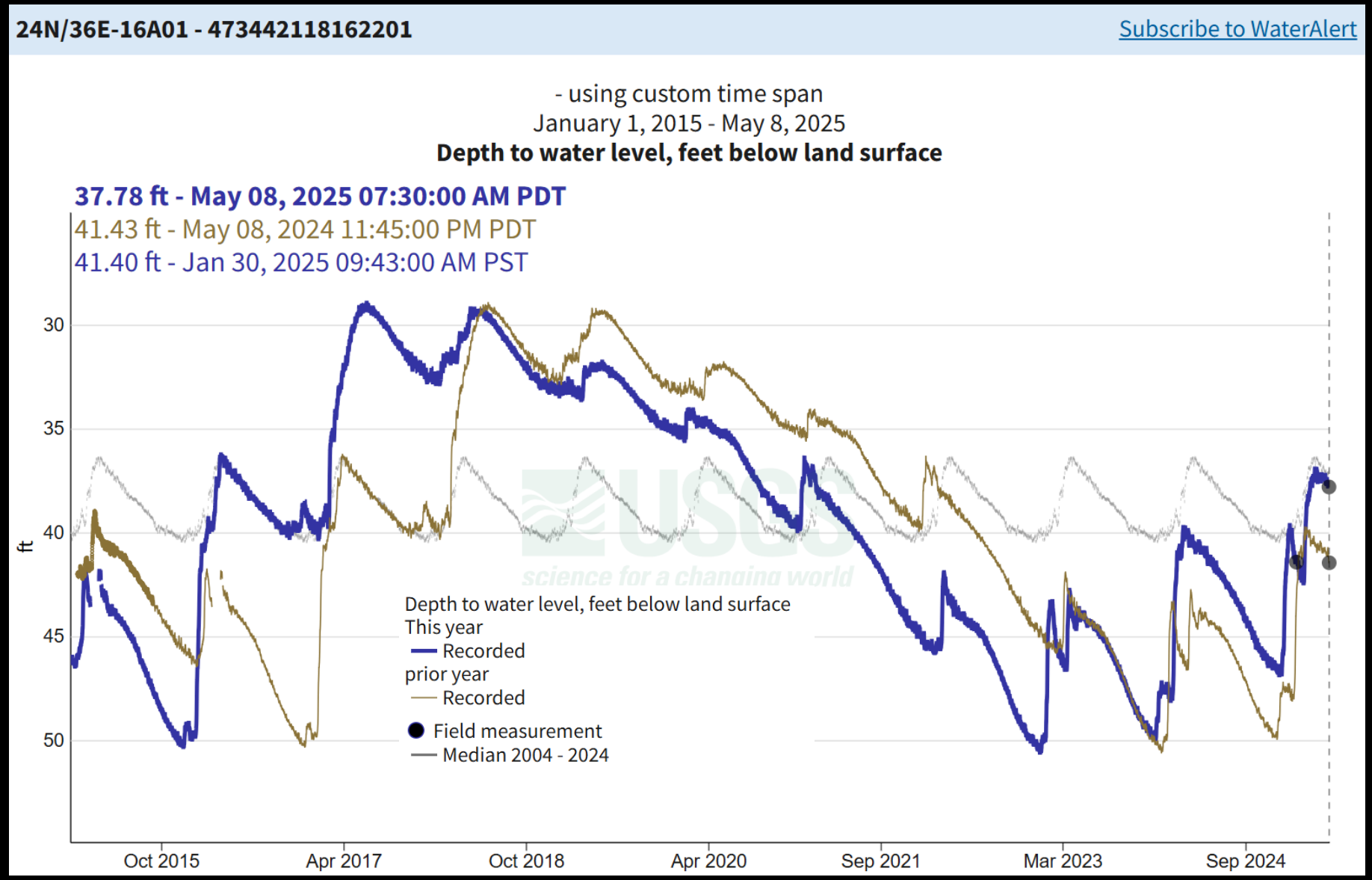
Davenport well

Well Details

- Lincoln County
- 117-ft deep
- Wanapum Basalt

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

Davenport Well Groundwater Conditions



Well Details

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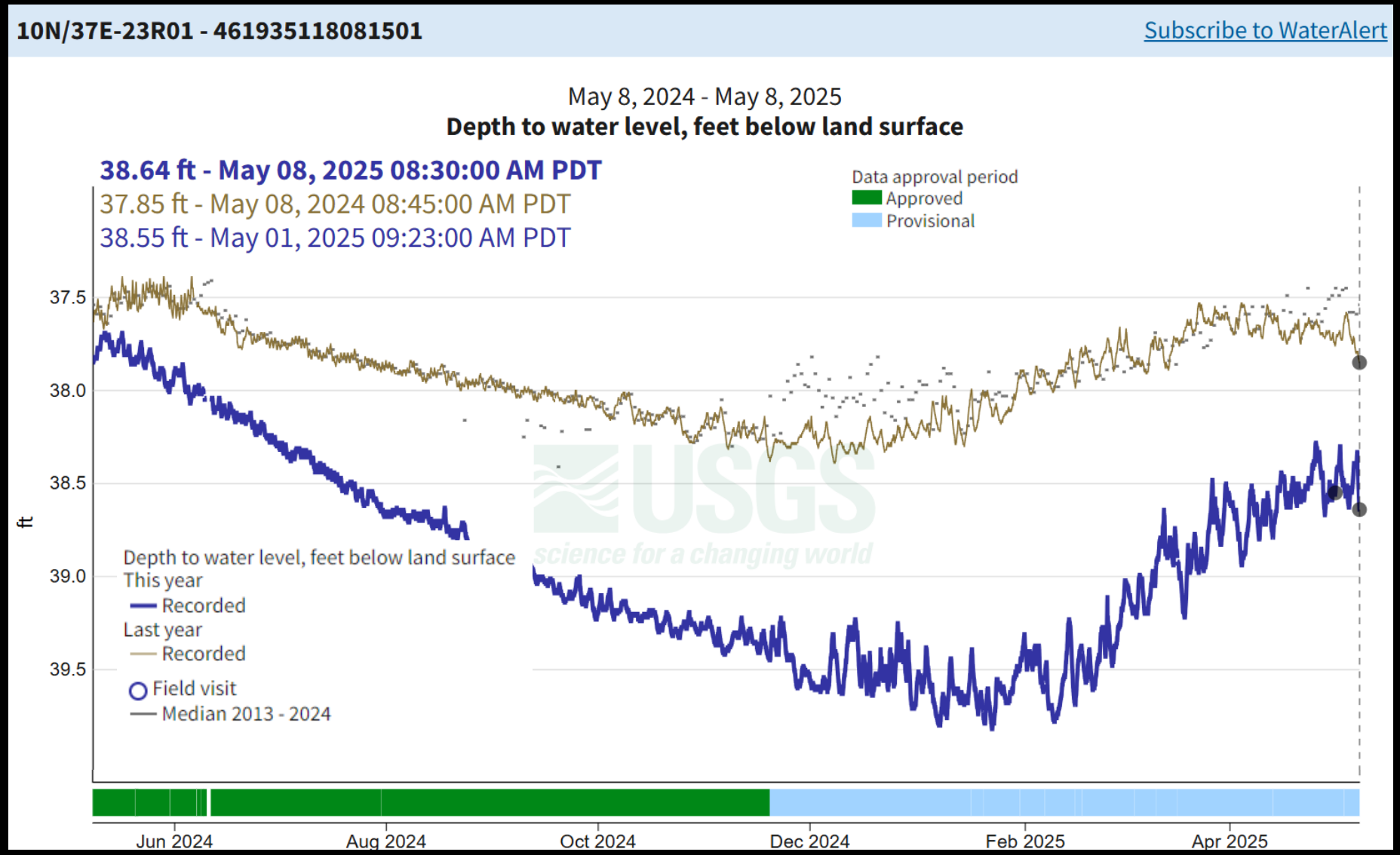
Whetstone Well Groundwater Conditions



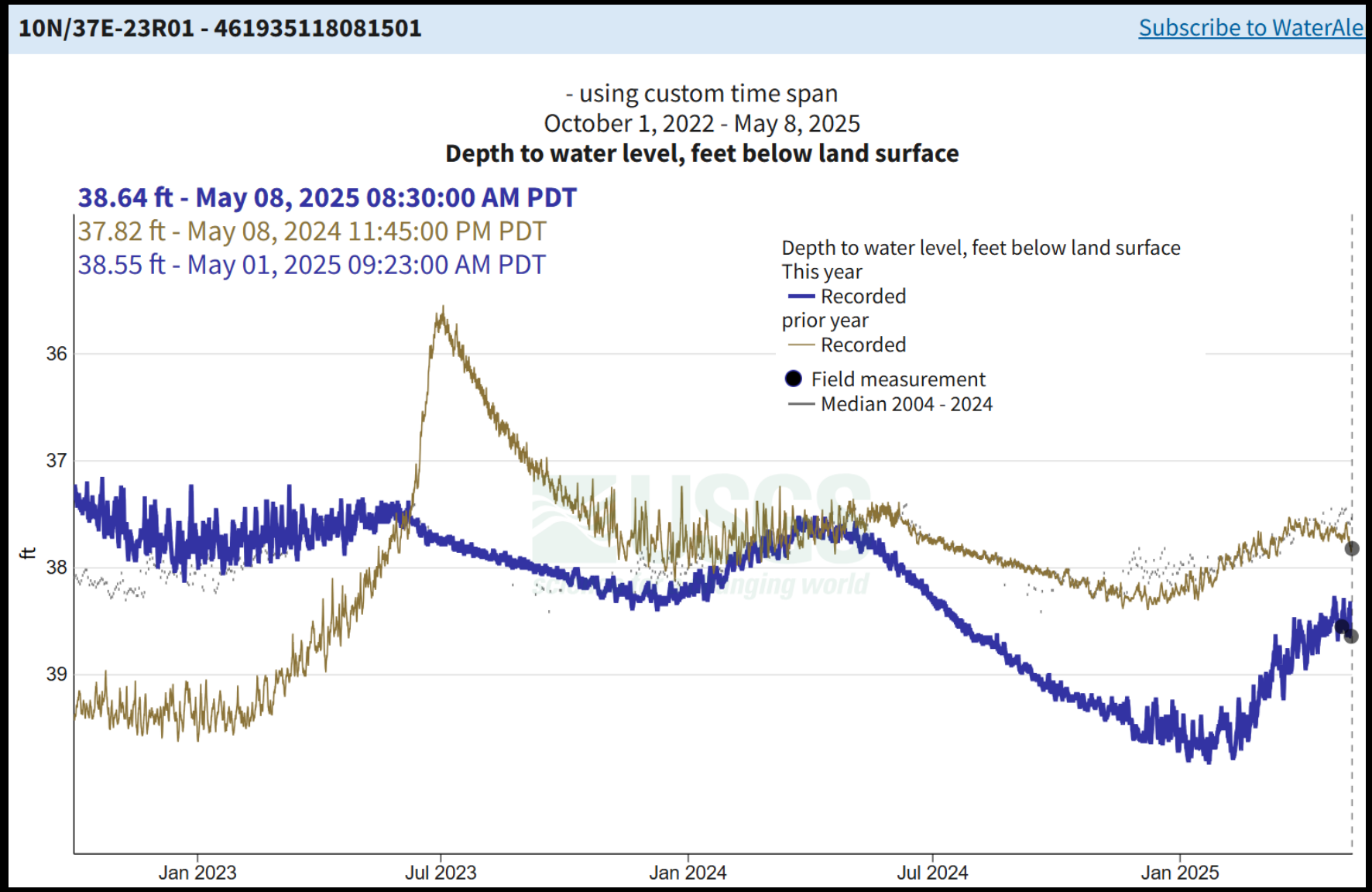
Whetstone well

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



Well Details:

- Columbia County near Waitsburg
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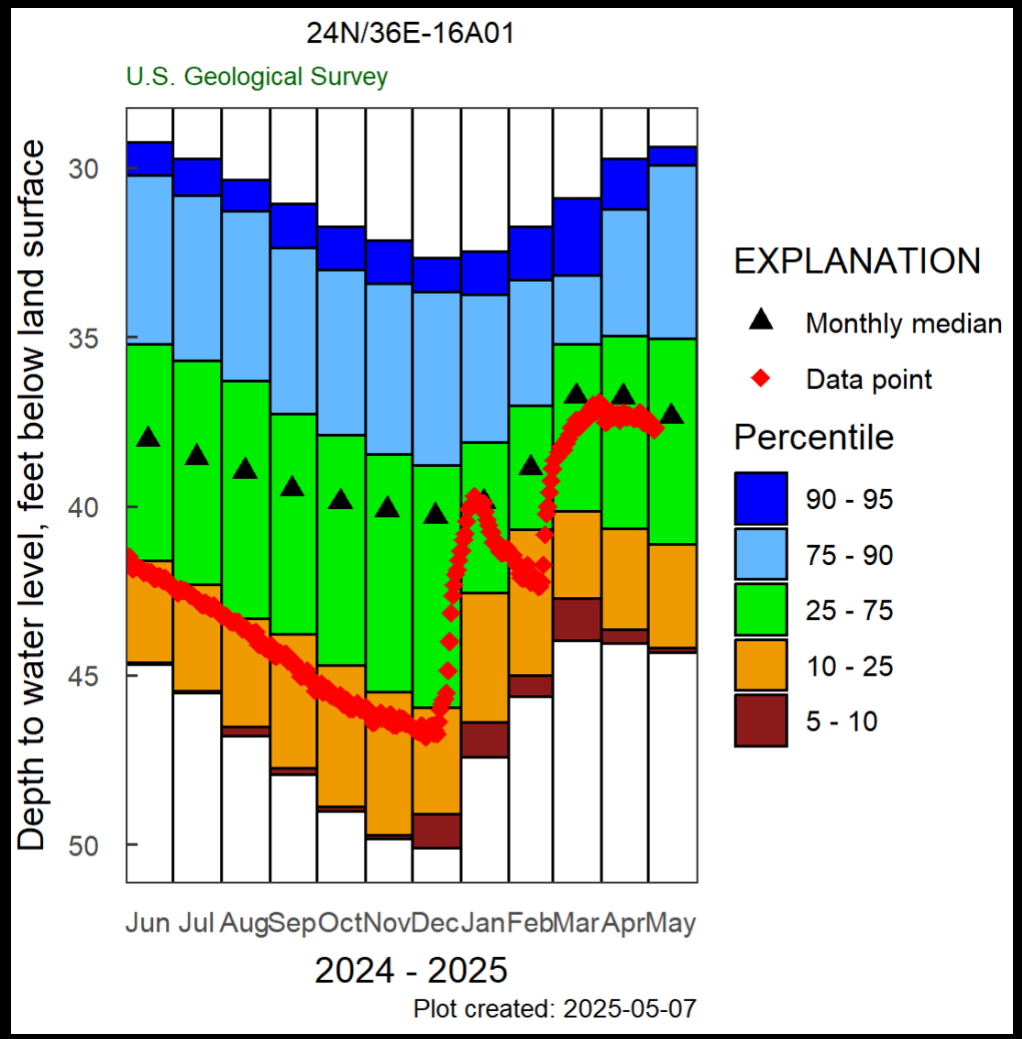
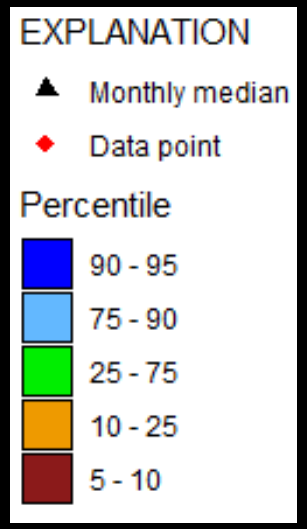
Groundwater Conditions

Davenport well





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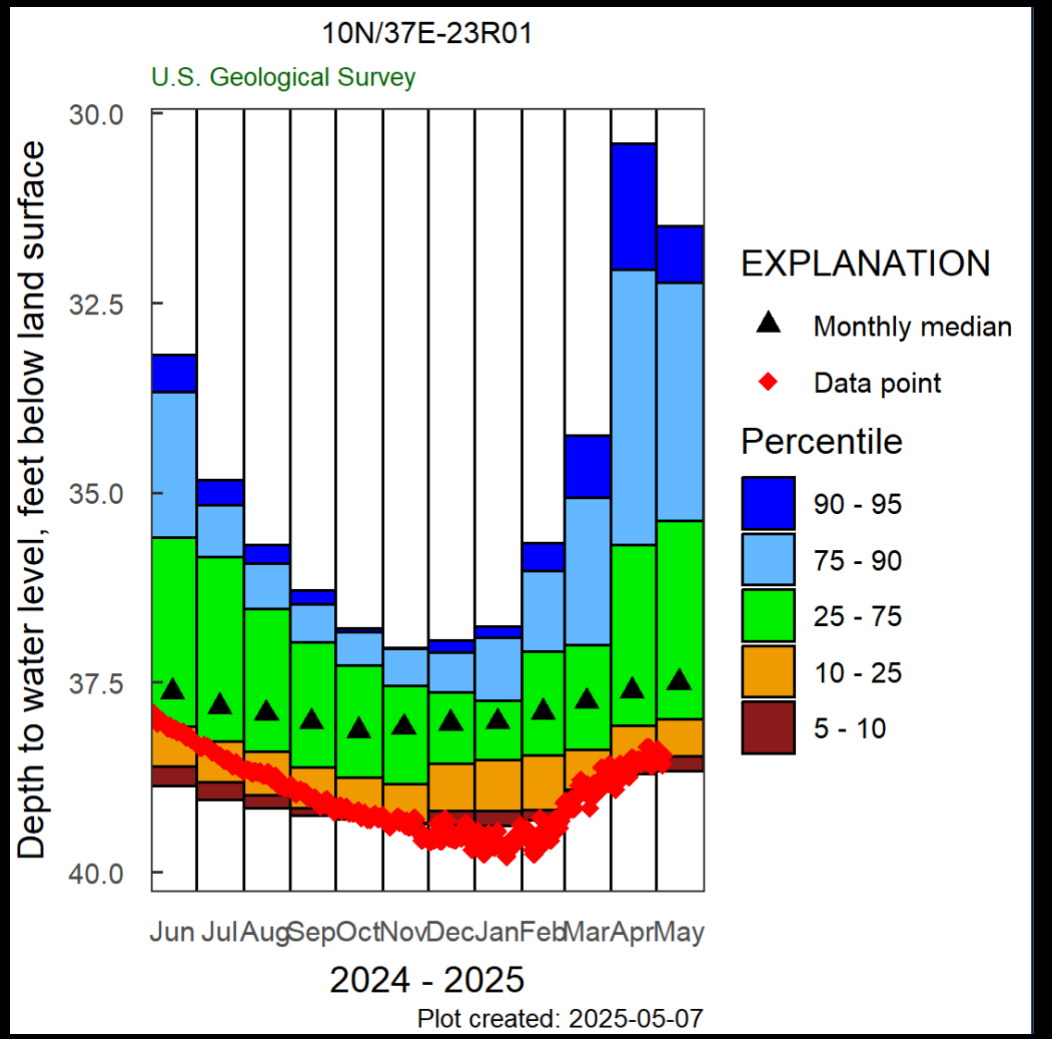
Whetstone well



Summary of Washington Streamflow and Groundwater Conditions as of 7 May 2025

7-day average streamflow at eight index gaging stations:

Above Normal
- American River

Normal
- Nooksack River

Below Normal
- Quinault River
- Puyallup River nr. Orting
- Hangman Creek
- Walla Walla River

Much Below Normal
- Chehalis River nr. Grand Mound

Record Low
- EF Lewis River

Monthly average groundwater conditions in April and May:

- Davenport well
  - Normal

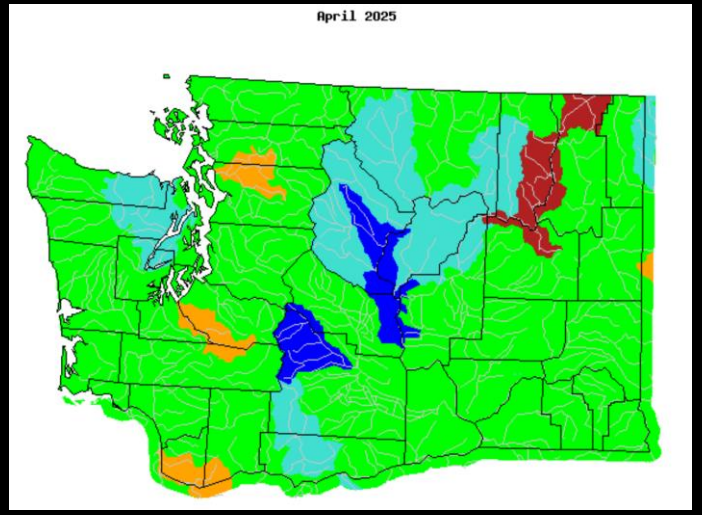
- Whetstone well
  - Below to much below normal

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

Summary of Washington Streamflow and Groundwater Conditions as of 7 May 2025

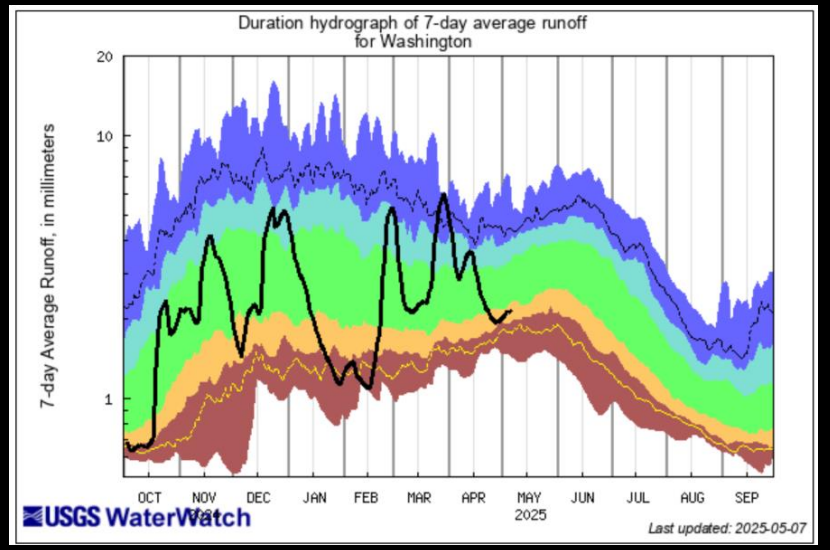
Monthly average area-based runoff normal to above normal in April

- Very low in Roosevelt Lake
- Highs east of Cascades in north central WA
  - Upper Columbia-Entiat
  - Naches
  - Chelan
  - Methow



7-Day Area-based runoff below normal at start of May

- Similar trend in recent drought years
- Higher flow conditions in March and April in 2025



Cumulative Runoff

- Normal for water year 2025

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