

# Streamflow & Groundwater Conditions in Washington State as of 26 February 2024



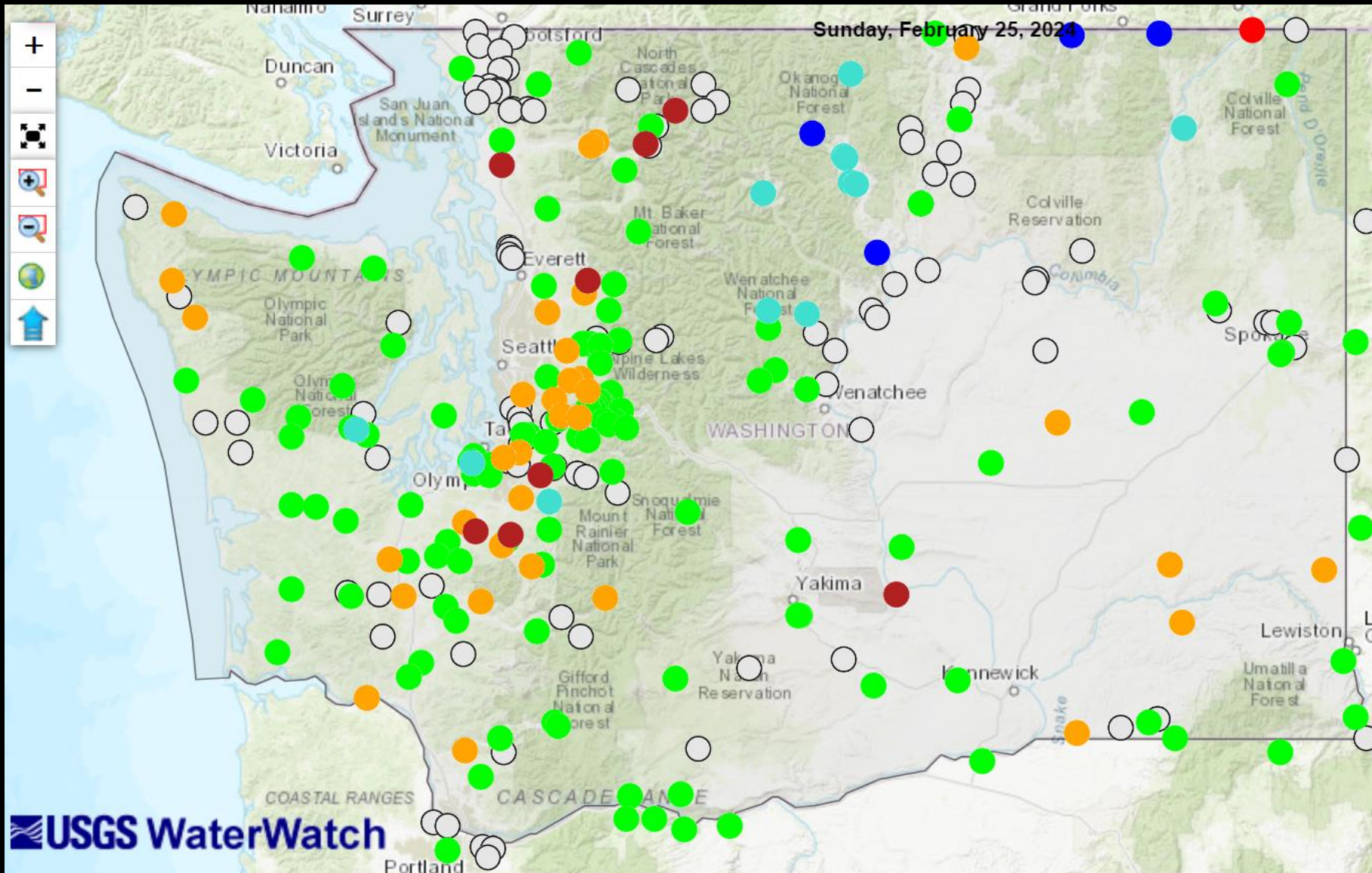
**Presented to**  
**The Washington State Water Supply Availability Committee on 28 January 2024**  
**by Nicholas Sutfin, USGS Washington Water Science Center**

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# 7-day Average Streamflow

Conditions as of 25 Feb. 2024

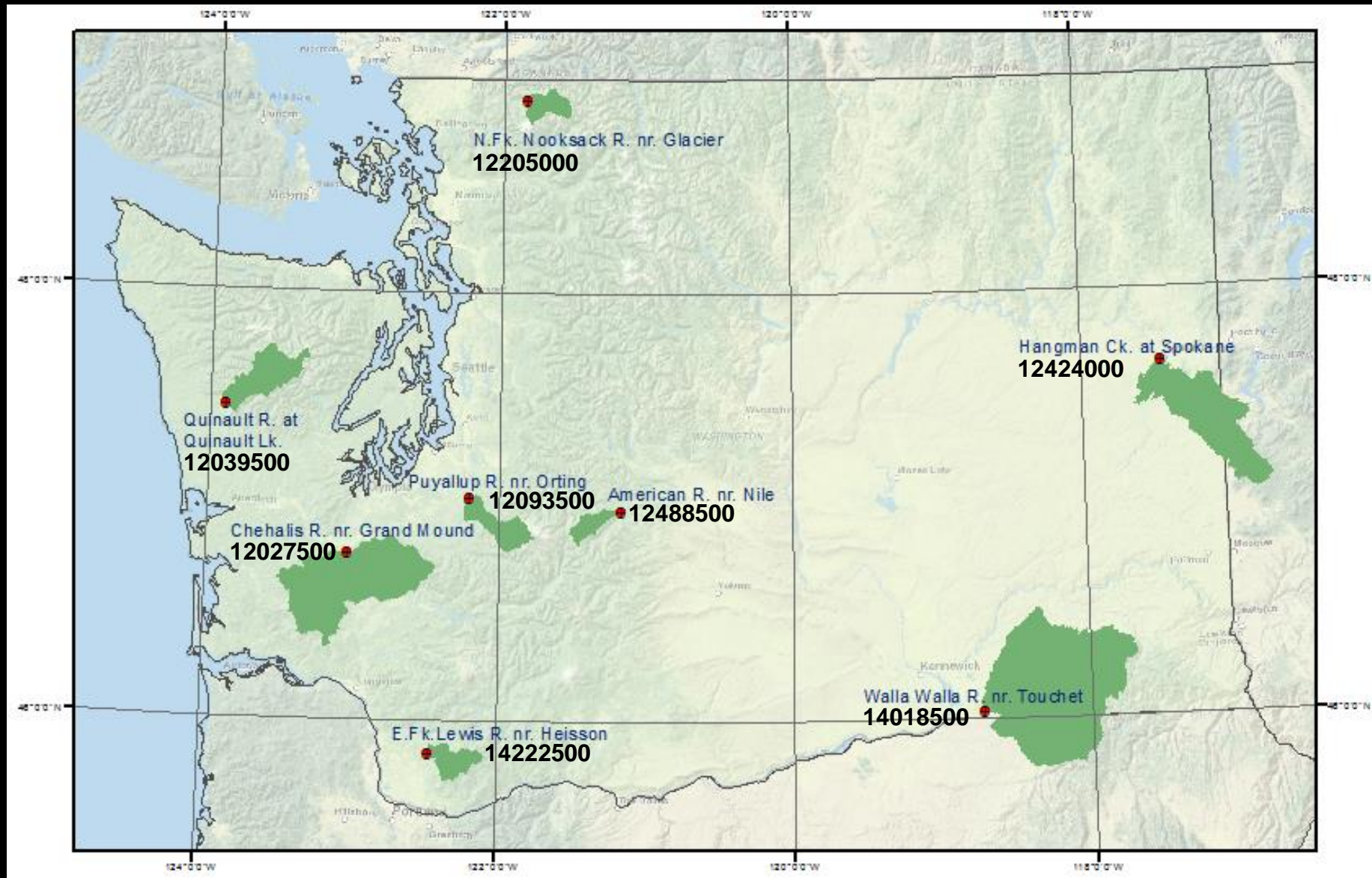


**Preliminary Information-  
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Citation or Distribution.**



# Index Gaging Stations

(Stations that measure natural or near-natural streamflow)

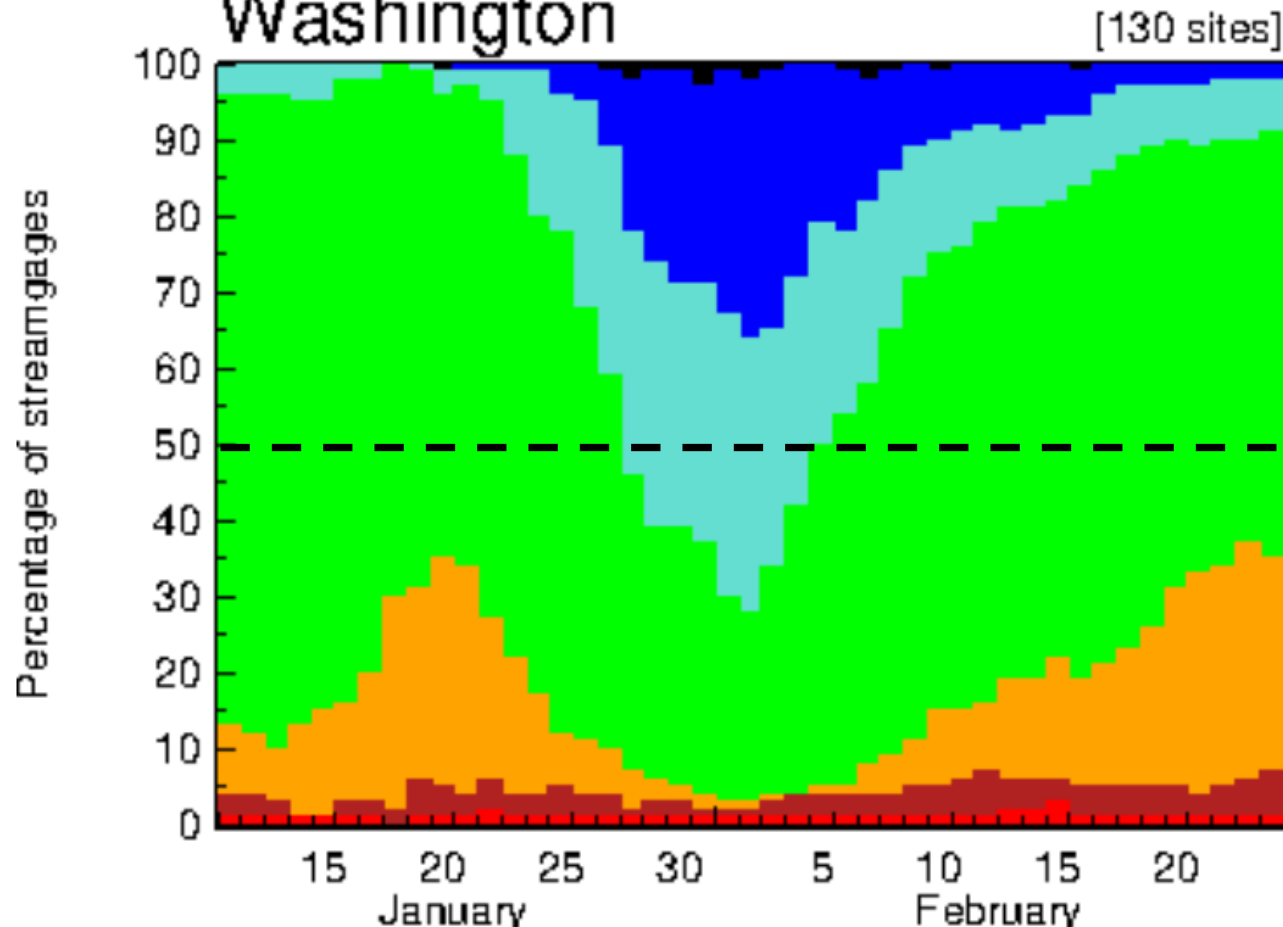




# 7-day average streamflow

7-day average streamflow as of 25 Feb. 2024 is ~normal

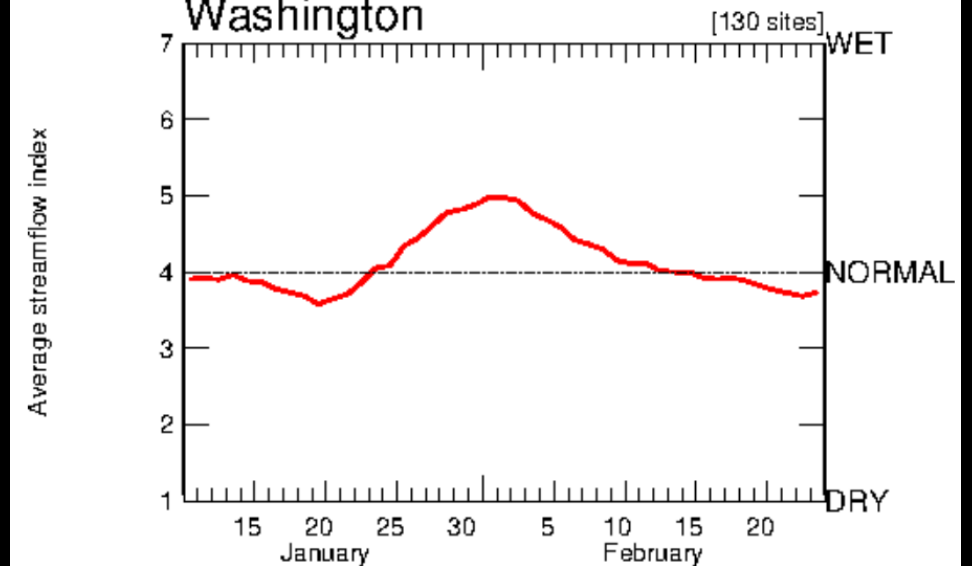
## Last 45 Days Washington



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## Last 45 Days

### Washington



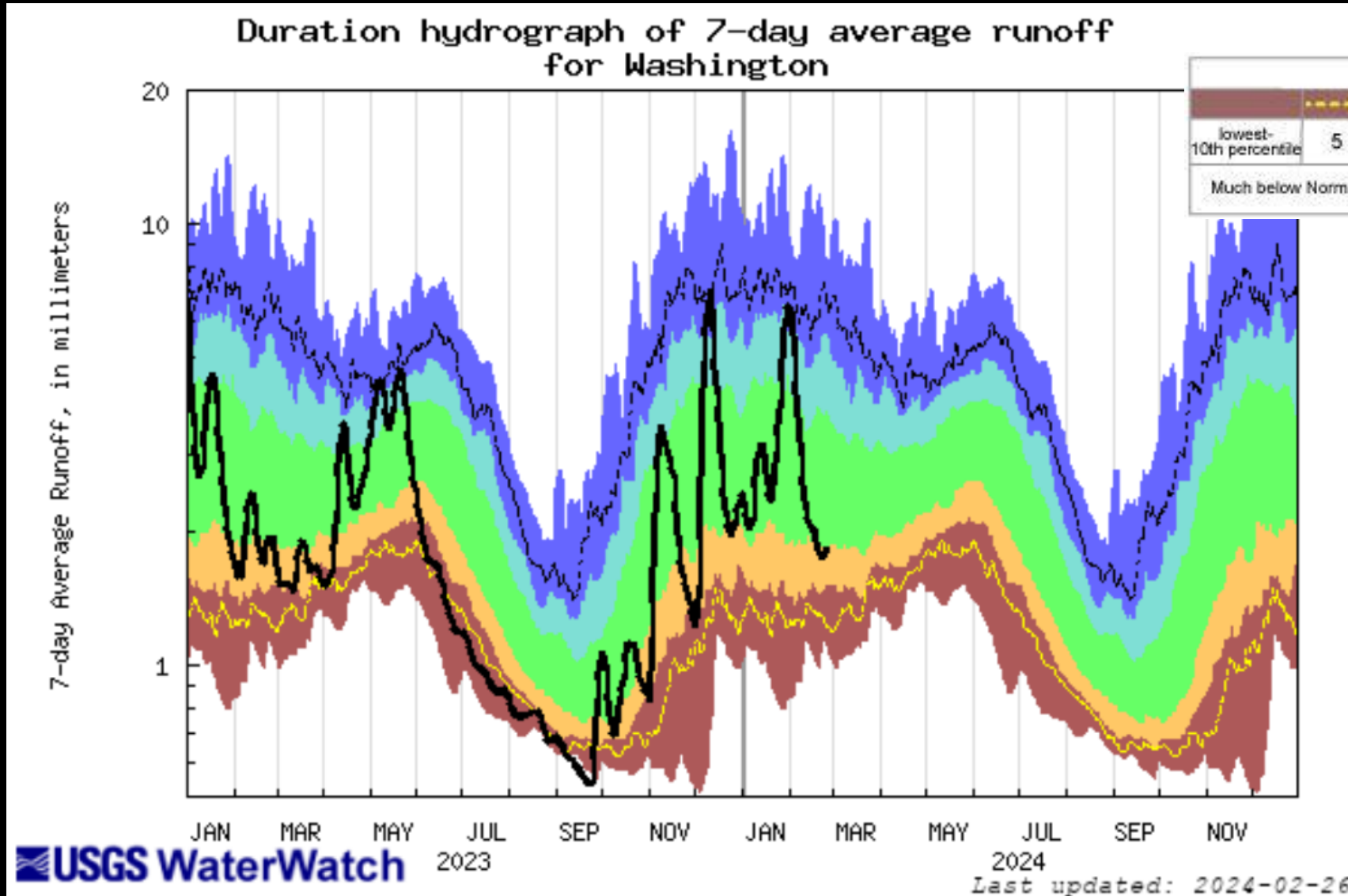
### Explanation - Percentile classes

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



# Area-Based Runoff Duration Hydrograph

7-day average streamflow as of 25 Feb. 2024 is ~normal



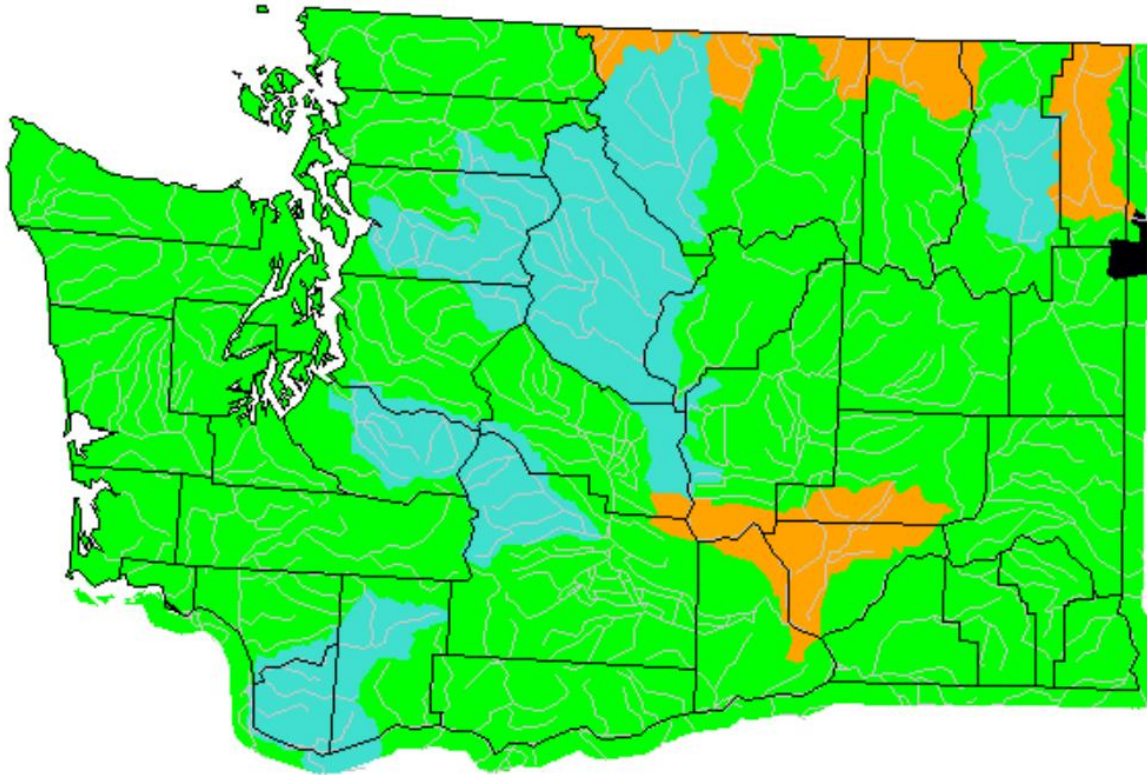
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For some streams, flow  
statistics may have been  
computed from mixed  
regulated  
and unregulated flows; this  
can affect depictions of flow  
conditions.

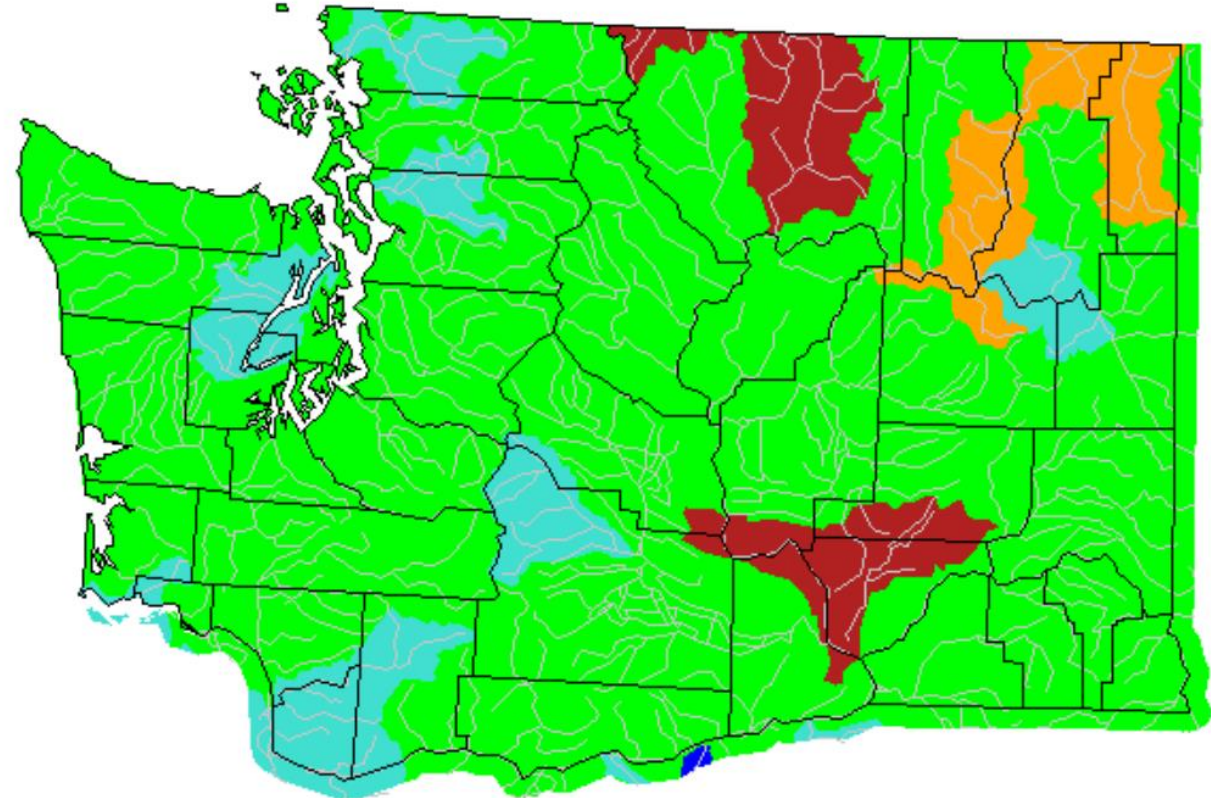
# Monthly average streamflow compared to historical streamflow

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

December 2023



January 2024

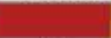

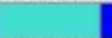



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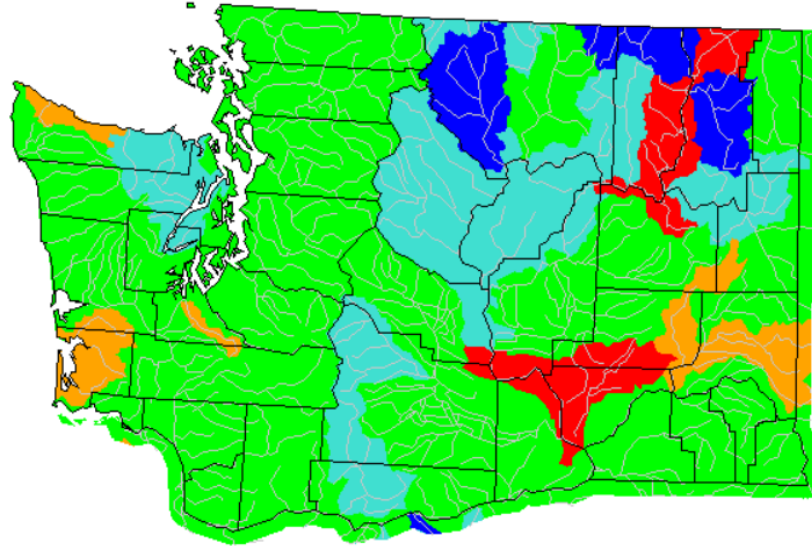
# Monthly average streamflow

compared to historical streamflow as of 25 Feb. 2024

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

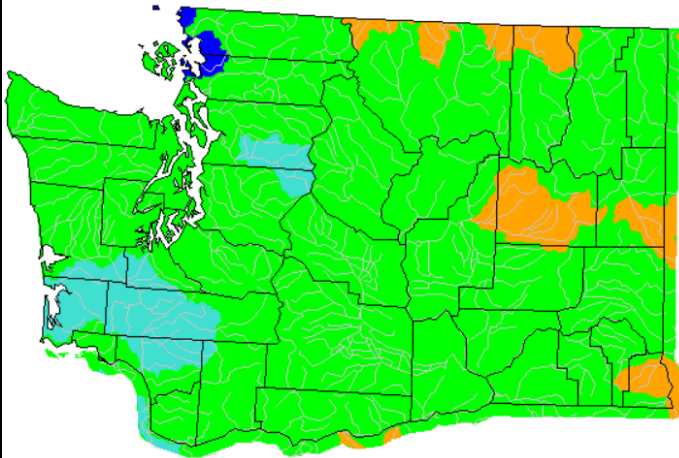
<https://waterwatch.usgs.gov/>

Last 28 days as of 25 Feb. 2024

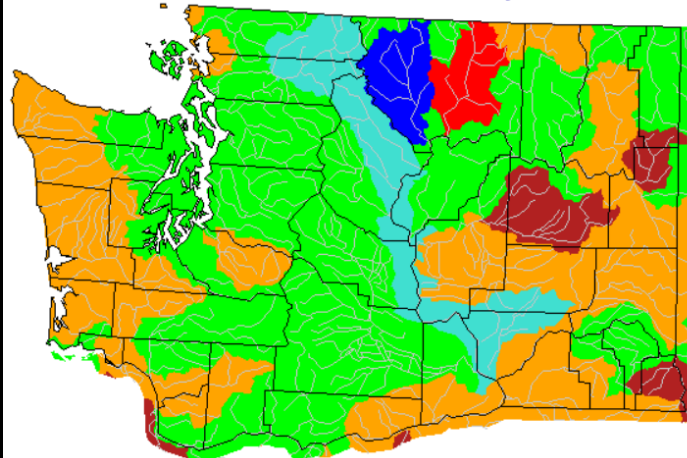


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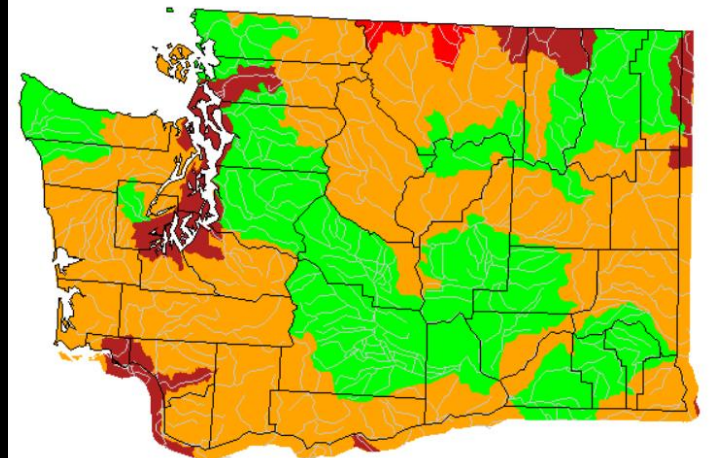
February 2021



February 2022

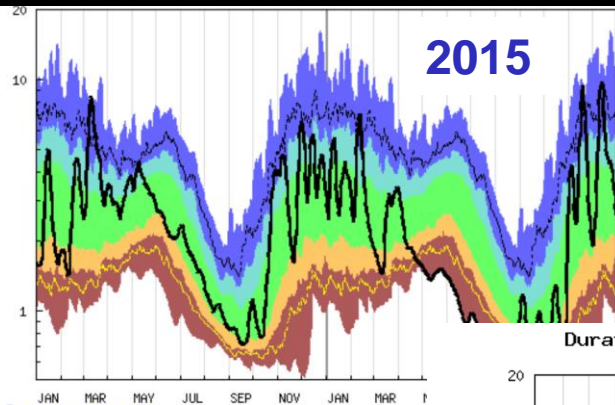
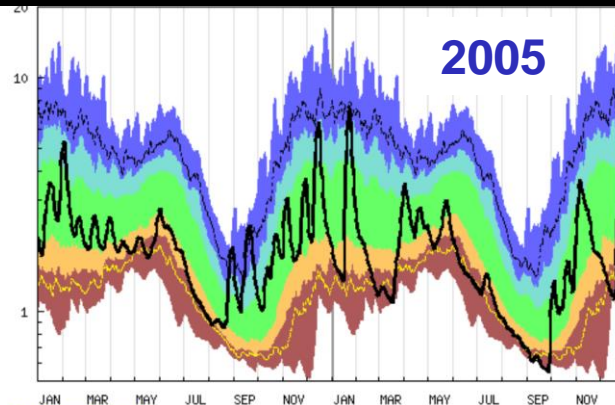
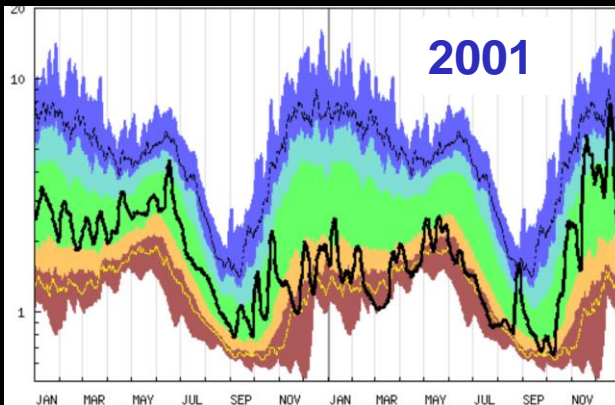


February 2023

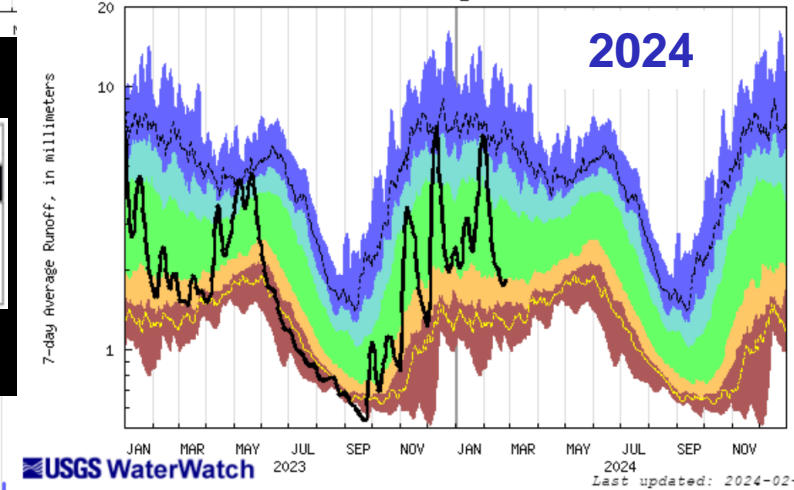




# 7-day average runoff compared to historical runoff as of 25 Feb. 2024

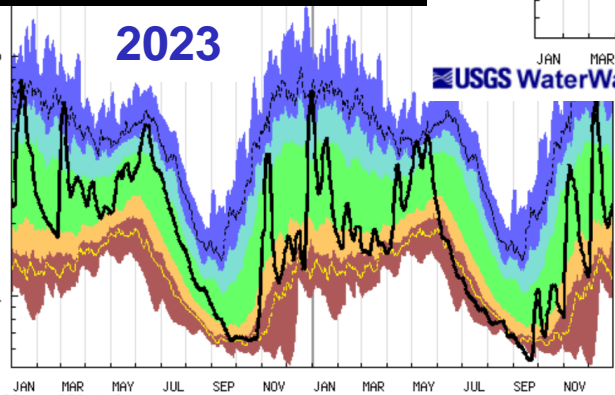
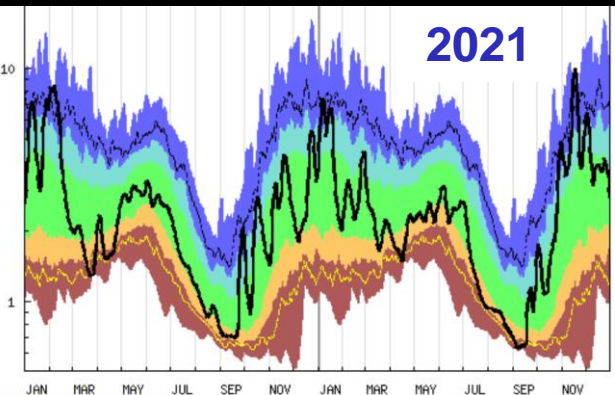
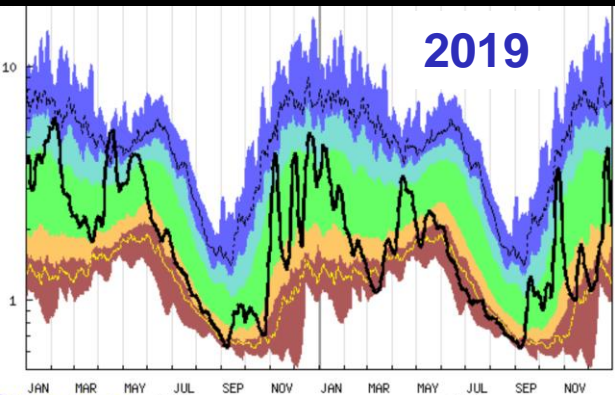


Duration hydrograph of 7-day average runoff  
for Washington



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



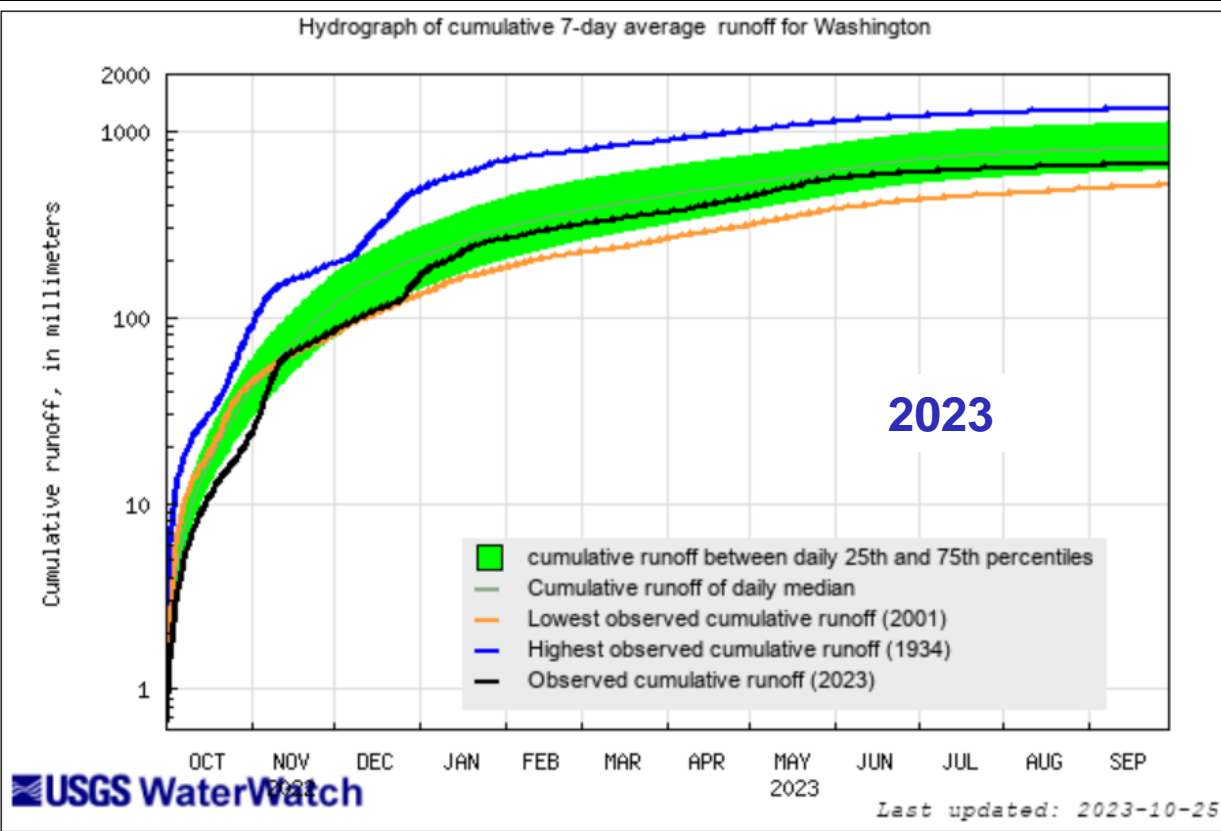
USGS WaterWatch

Last updated: 2024-02-26

# Cumulative runoff hydrograph

## Area-based runoff based on 7-day average

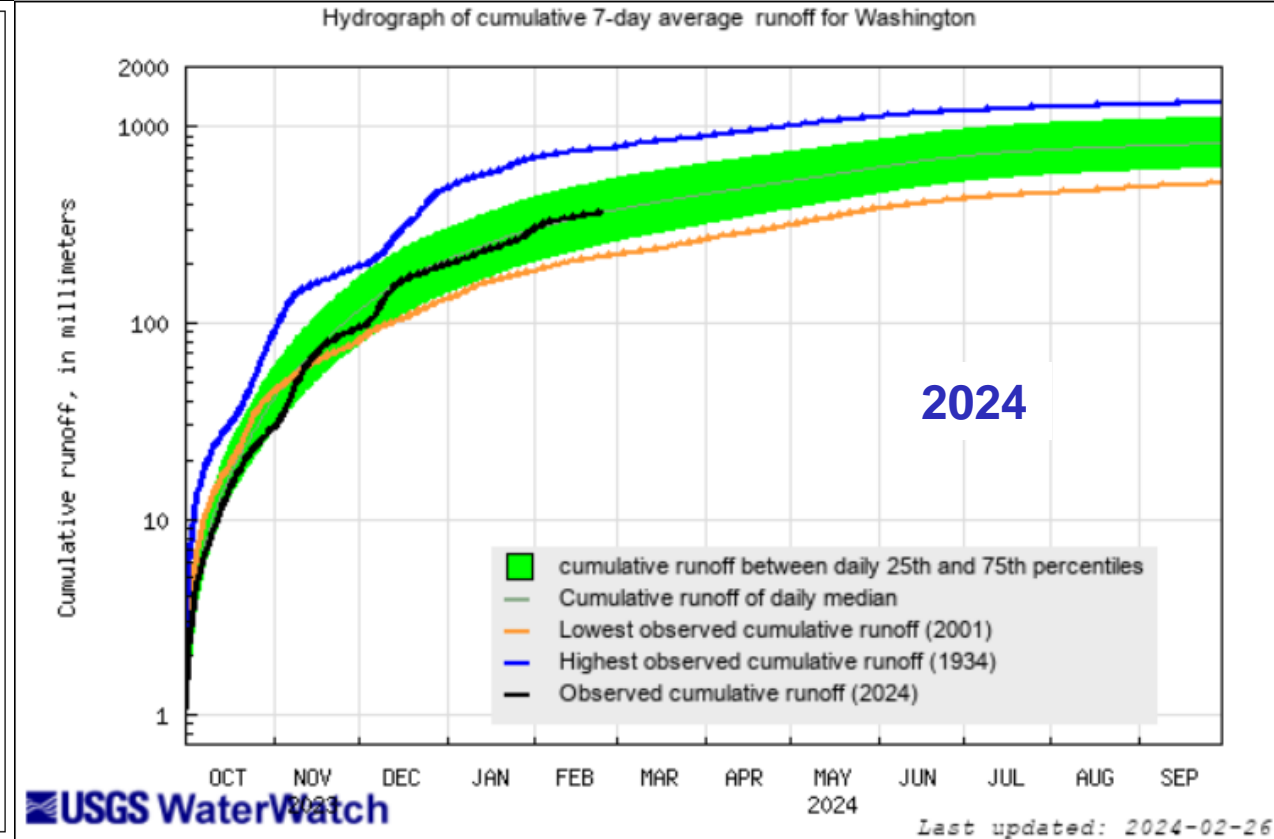
2024 Water year (as of 25 Feb. 2024) is normal



2023 water year

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

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

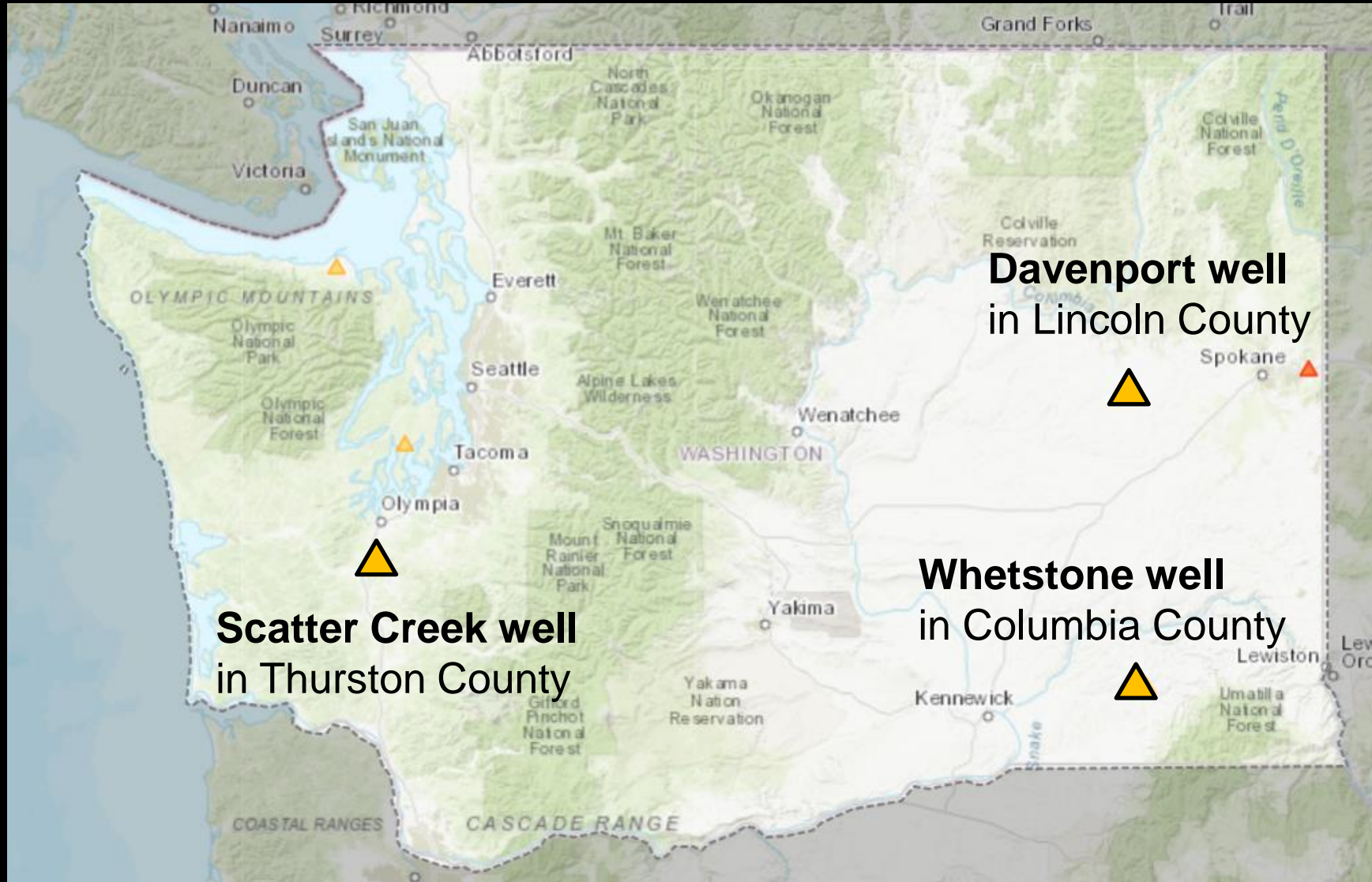


2024 water year

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# Three reference groundwater wells



## Groundwater Levels

### DEPTH TO WATER

▲ 0 – 50 feet

▲ > 50 – 100 feet

▲ > 100 – 150 feet

▲ > 150 – 200 feet

▲ > 200 – 250 feet

▲ > 250 feet

▲ Measurement flag

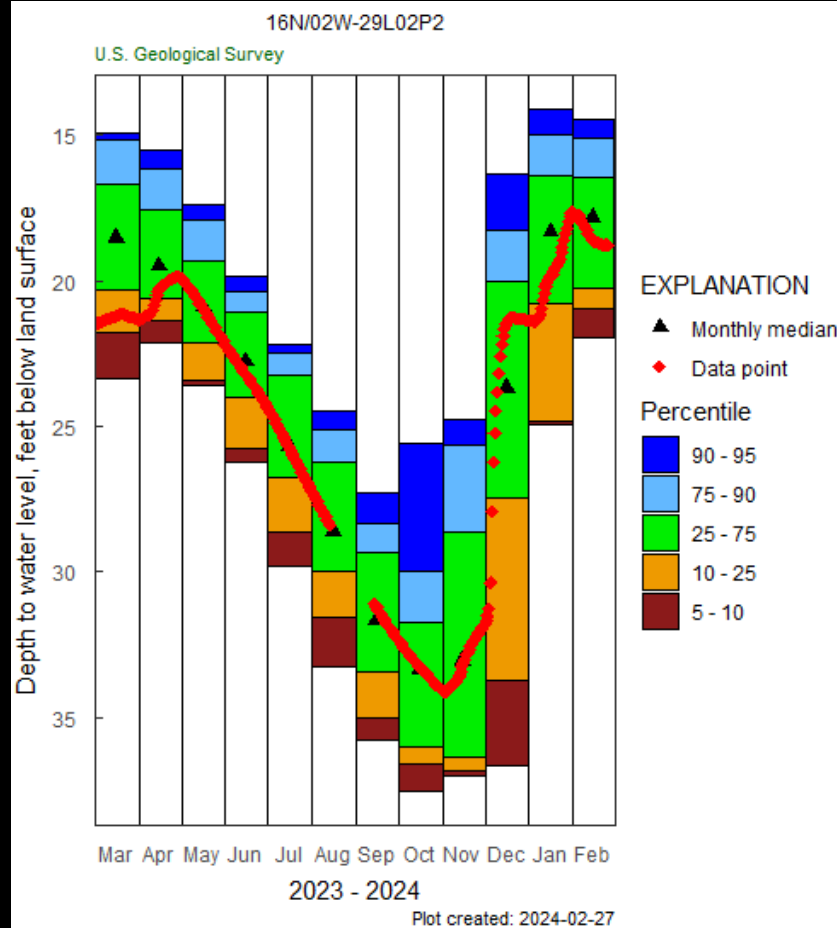
▲ Recent measurement unavailable

▲ Depth to water unavailable

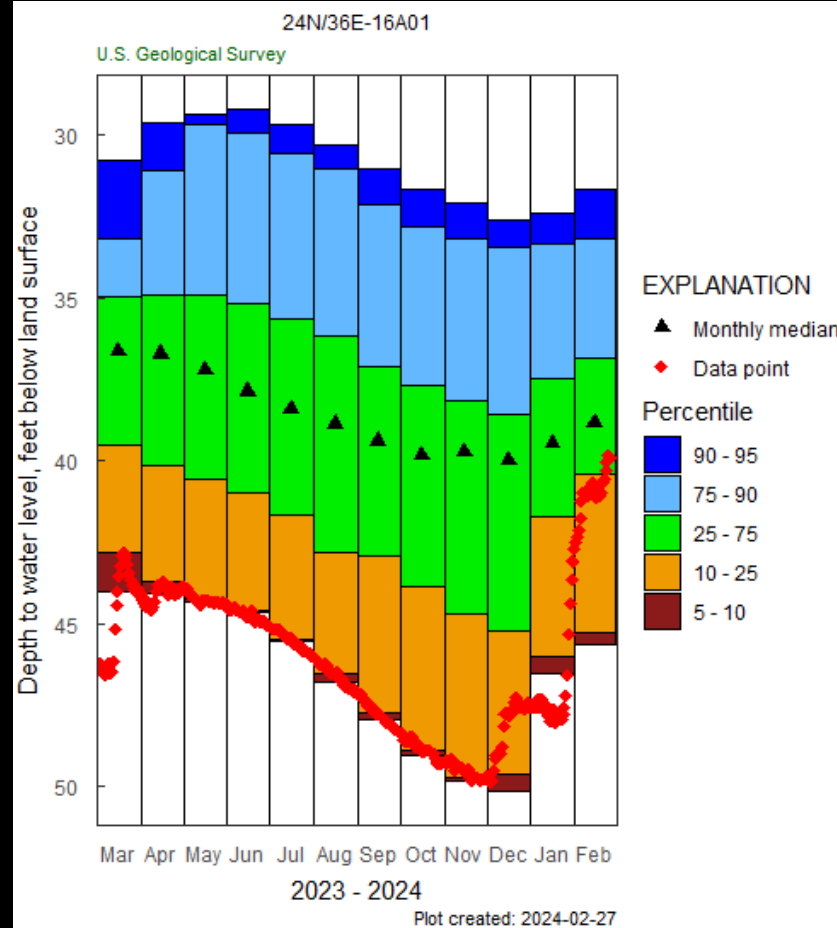
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# Groundwater Conditions

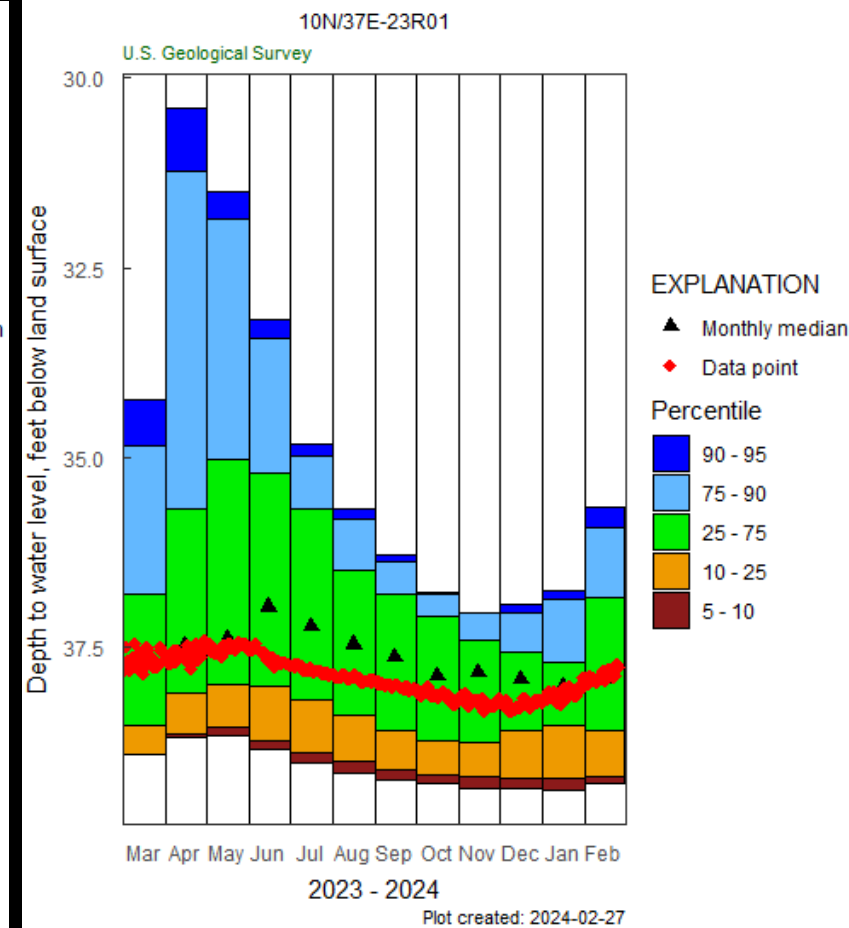
## Scatter Creek well



## Davenport well



## Whetstone well



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# Scatter Creek Well Groundwater Conditions

**16N/02W-29L02P2 - 465033122570202**

February 26, 2023 - February 26, 2024

**Depth to water level, feet below land surface**

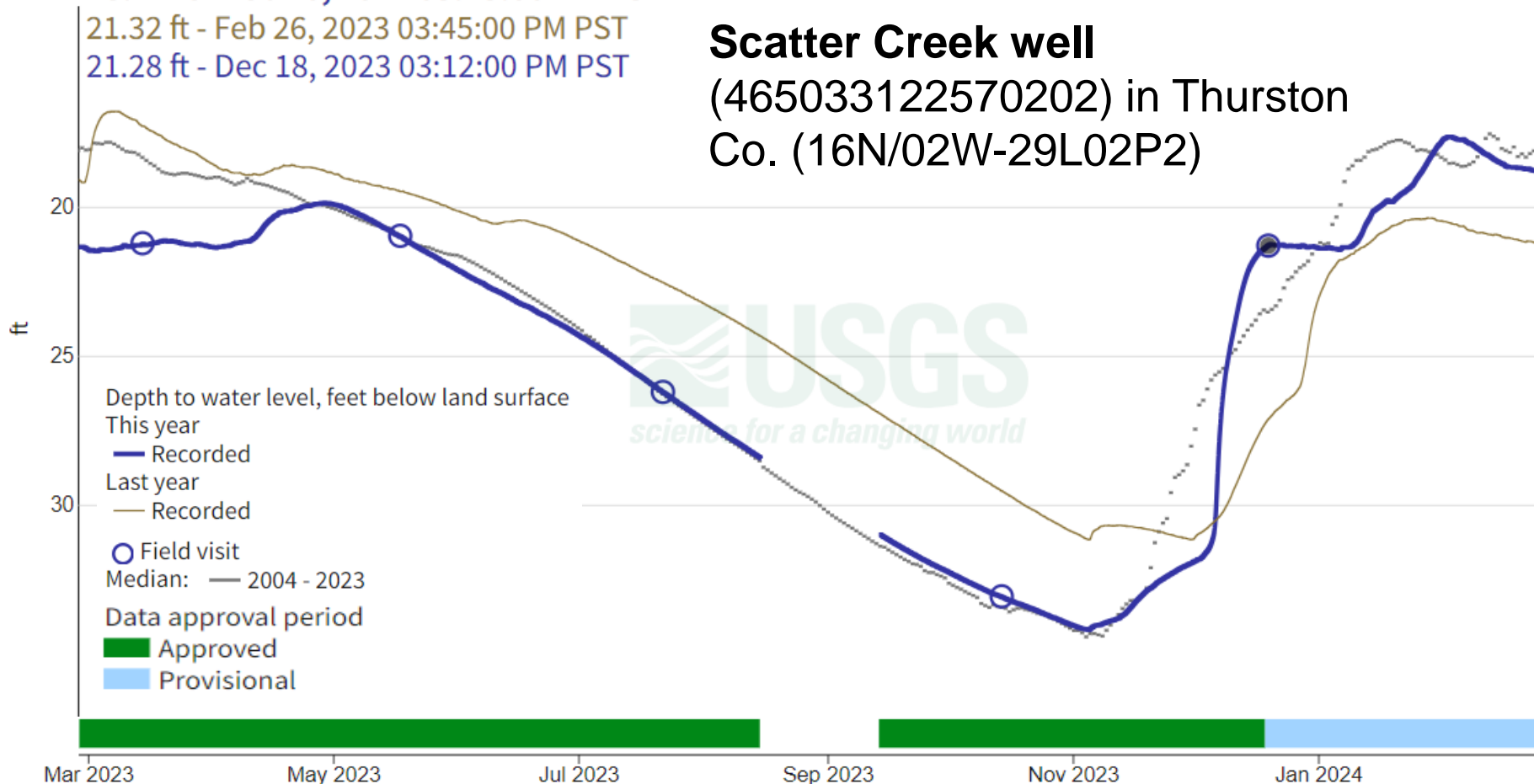
**18.77 ft - Feb 26, 2024 03:15:00 PM PST**

21.32 ft - Feb 26, 2023 03:45:00 PM PST

21.28 ft - Dec 18, 2023 03:12:00 PM PST

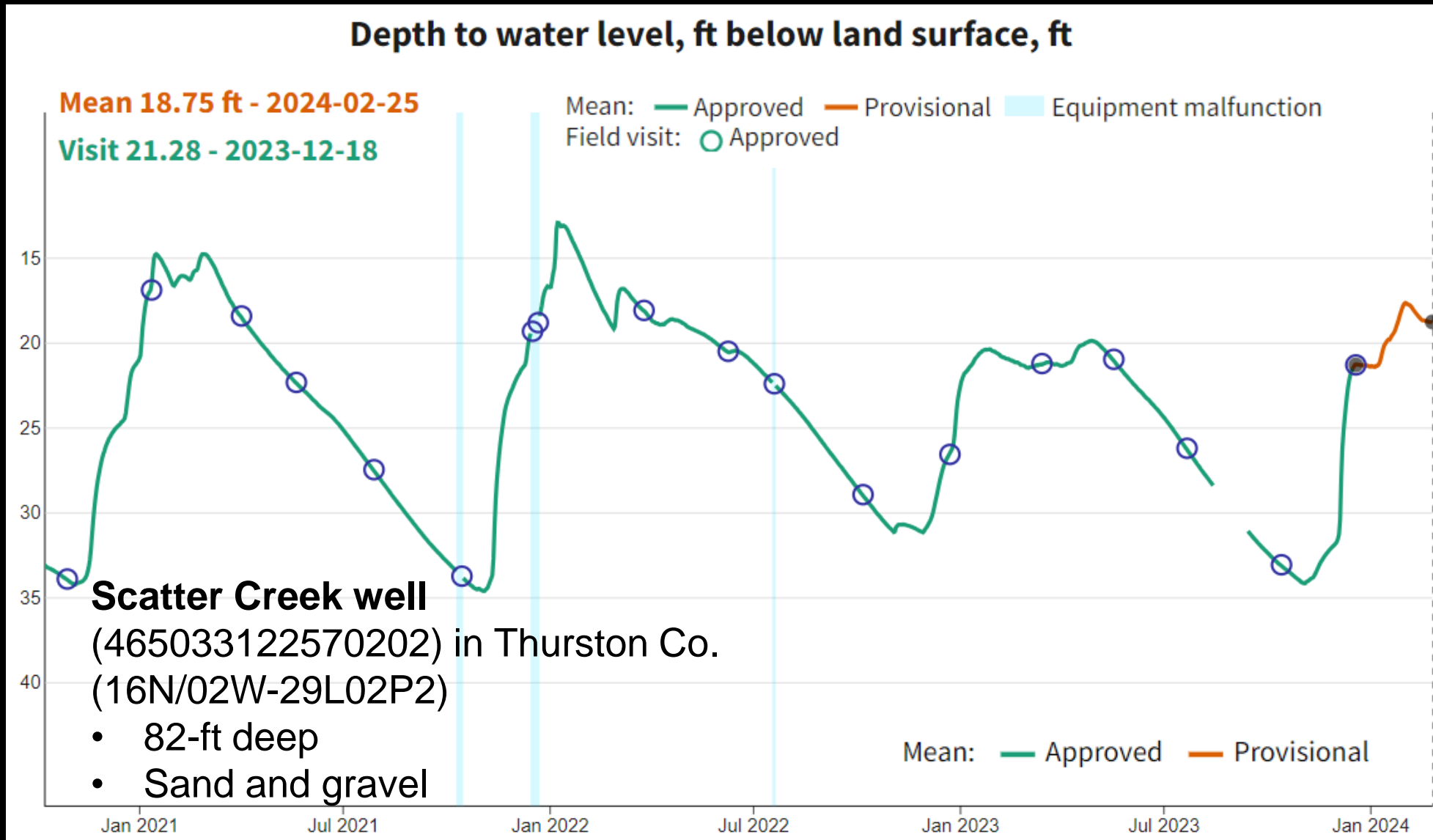
**Scatter Creek well**

(465033122570202) in Thurston  
Co. (16N/02W-29L02P2)



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Revision. Not for  
Citation or  
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# Scatter Creek Well Groundwater Conditions



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Revision. Not for  
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# Davenport Well Groundwater Conditions

## 24N/36E-16A01 - 473442118162201

February 26, 2023 - February 26, 2024

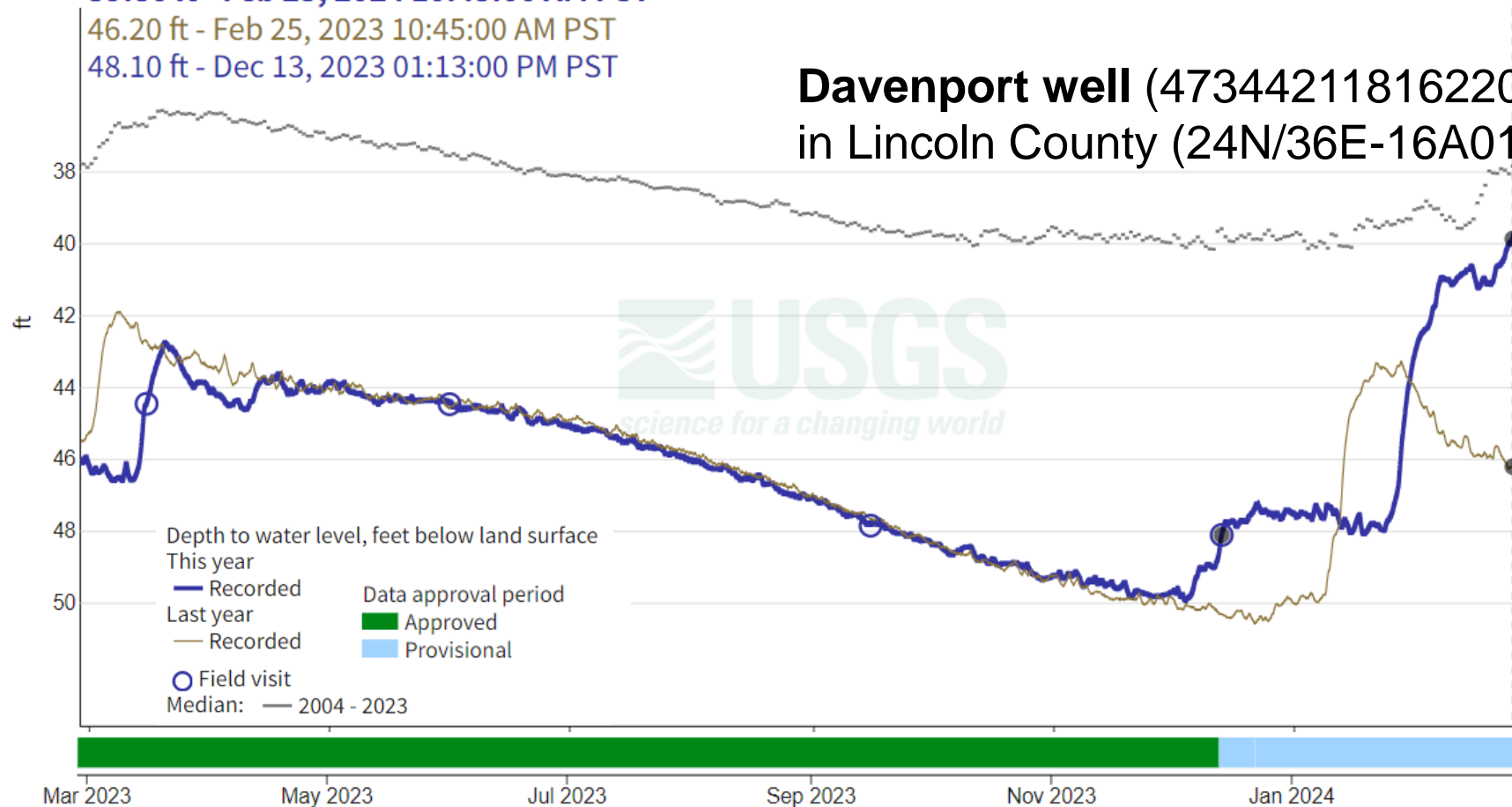
Depth to water level, feet below land surface

39.86 ft - Feb 25, 2024 10:45:00 AM PST

46.20 ft - Feb 25, 2023 10:45:00 AM PST

48.10 ft - Dec 13, 2023 01:13:00 PM PST

**Davenport well (473442118162201)**  
in Lincoln County (24N/36E-16A01)



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# Davenport Well Groundwater Conditions

Depth to water level, ft below land surface, ft

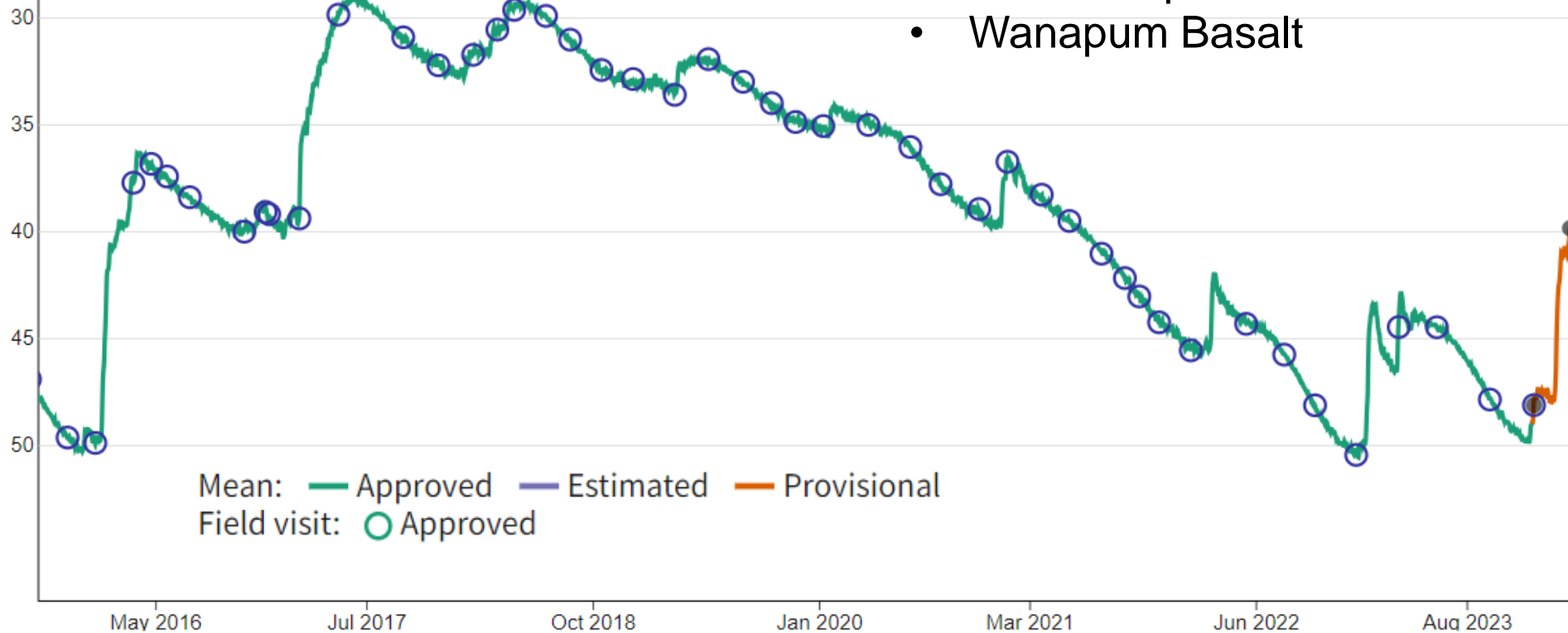
Mean 39.83 ft - 2024-02-25

Visit 48.10 - 2023-12-13

## Davenport well

(473442118162201) in Lincoln  
County (24N/36E-16A01)

- 117-ft deep
- Wanapum Basalt



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# Whetstone Well Groundwater Conditions

**10N/37E-23R01 - 461935118081501**

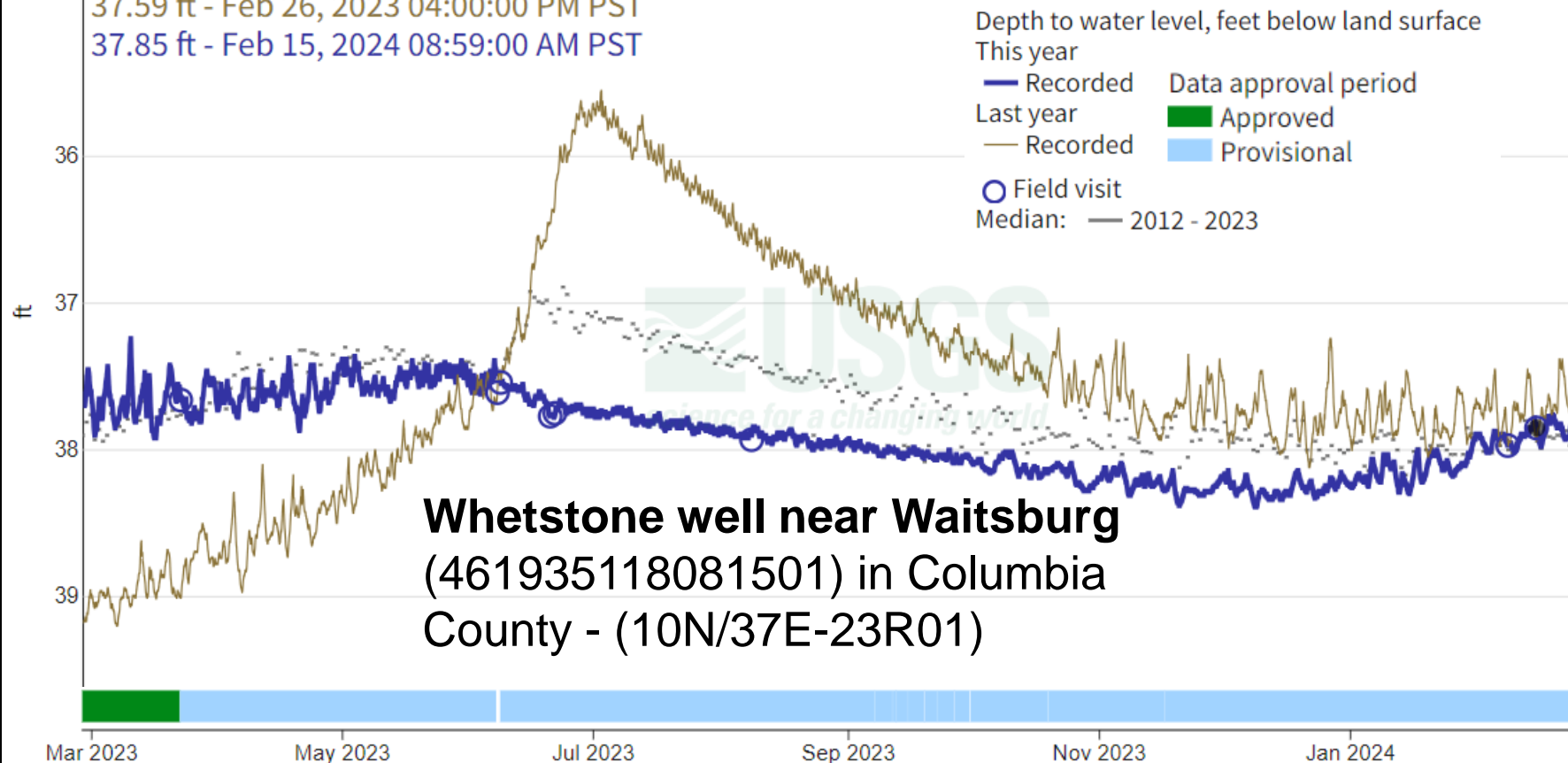
February 26, 2023 - February 26, 2024

**Depth to water level, feet below land surface**

**37.77 ft - Feb 26, 2024 03:30:00 PM PST**

**37.59 ft - Feb 26, 2023 04:00:00 PM PST**

**37.85 ft - Feb 15, 2024 08:59:00 AM PST**



**Whetstone well near Waitsburg**  
(461935118081501) in Columbia  
County - (10N/37E-23R01)

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# Whetstone Well Groundwater Conditions

Depth to water level, ft below land surface, ft

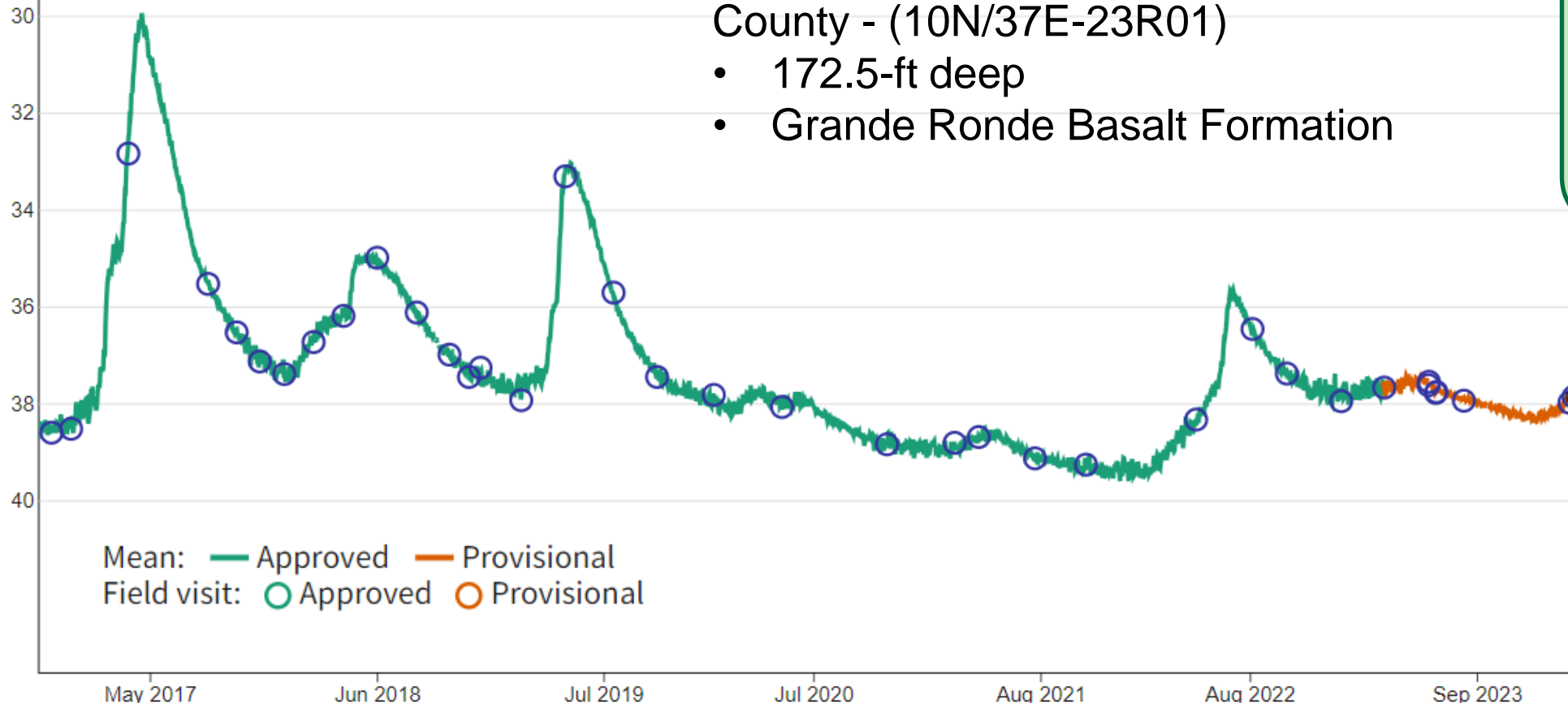
Mean 37.74 ft - 2024-02-25

Visit 37.85 - 2024-02-15

**Whetstone well near Waitsburg**  
(461935118081501) in Columbia  
County - (10N/37E-23R01)

- 172.5-ft deep
- Grande Ronde Basalt Formation

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# Summary of Washington Streamflow and Groundwater Conditions as of 25 Feb. 2024

## 7-day average streamflow at eight index gaging stations:

### **Normal**

- NF Nooksack River
- Hangman Creek
- American River
- EF Lewis River
- Quinault River

### **Below Normal**

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

## Monthly average groundwater conditions:

### **Normal**

- Scatter Creek well
- Davenport well
- Whetstone well

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