

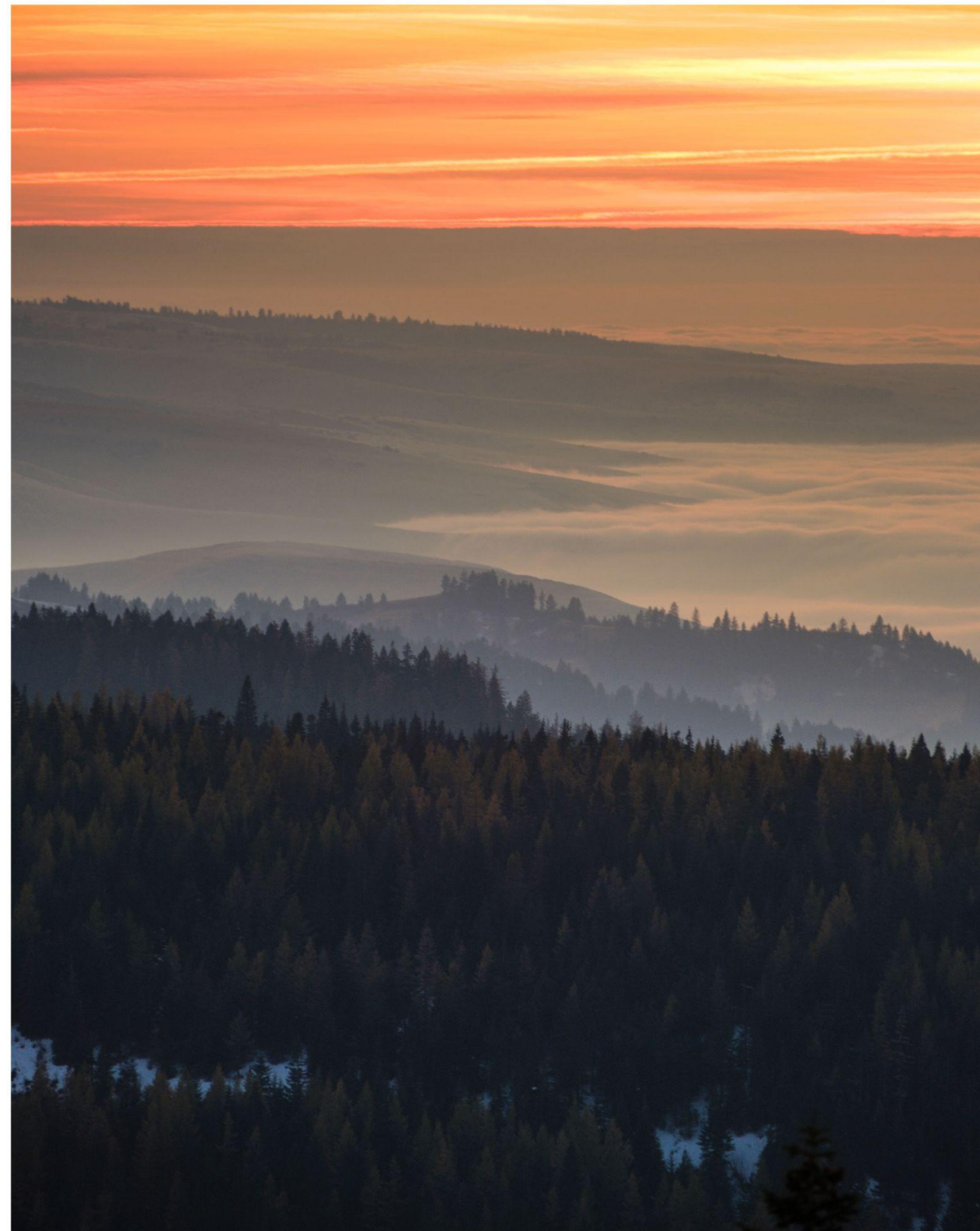
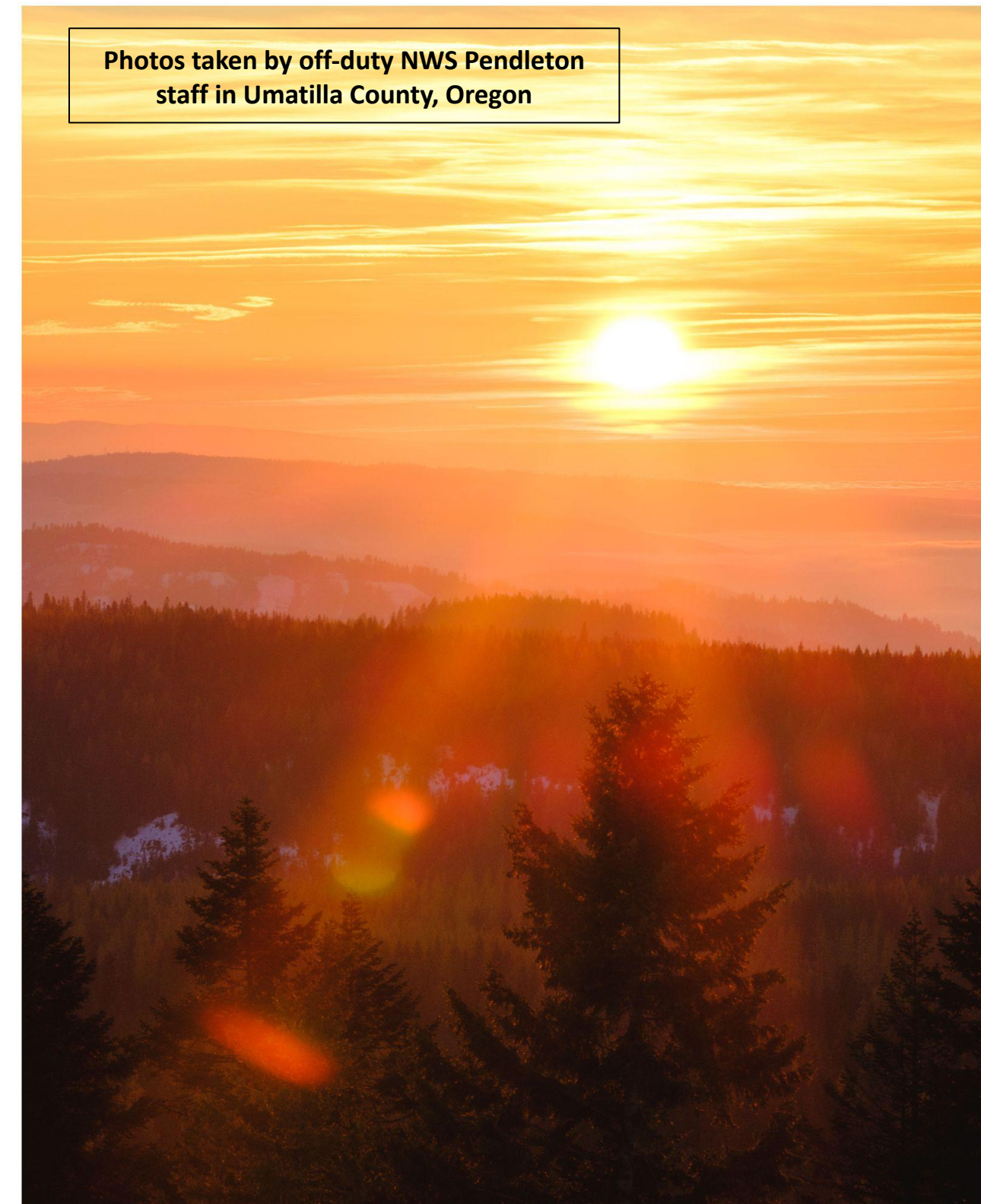
Month in Review - November 2024

Weather Forecast Office

Pendleton, OR

Tuesday, January 7

Photos taken by off-duty NWS Pendleton staff in Umatilla County, Oregon



The Month in Review is a retrospective collection of climate statistics for NWS Pendleton's forecast area (central to northeast Oregon and south-central to southeast Washington) with specific emphasis on ASOS-based climate sites, snowpack and drought evolution, and various statistics for the water year to date.

Prepared by NWS Pendleton's Climate Services team.



Key Points - November 2024

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

- Mean (average) temperatures were predominantly near normal (relative to the 1991-2020 climate reference period) across the forecast area during November, except for the Columbia Basin which observed mostly above-normal temperatures.
- Near- to above-normal precipitation (relative to the 1991-2020 climate reference period) was observed during November, except for portions of central Oregon and the central Washington Cascades which observed below-normal precipitation.
- Drought conditions improved across portions of our forecast area.



Local Storm Reports (LSRs) - November 2024

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

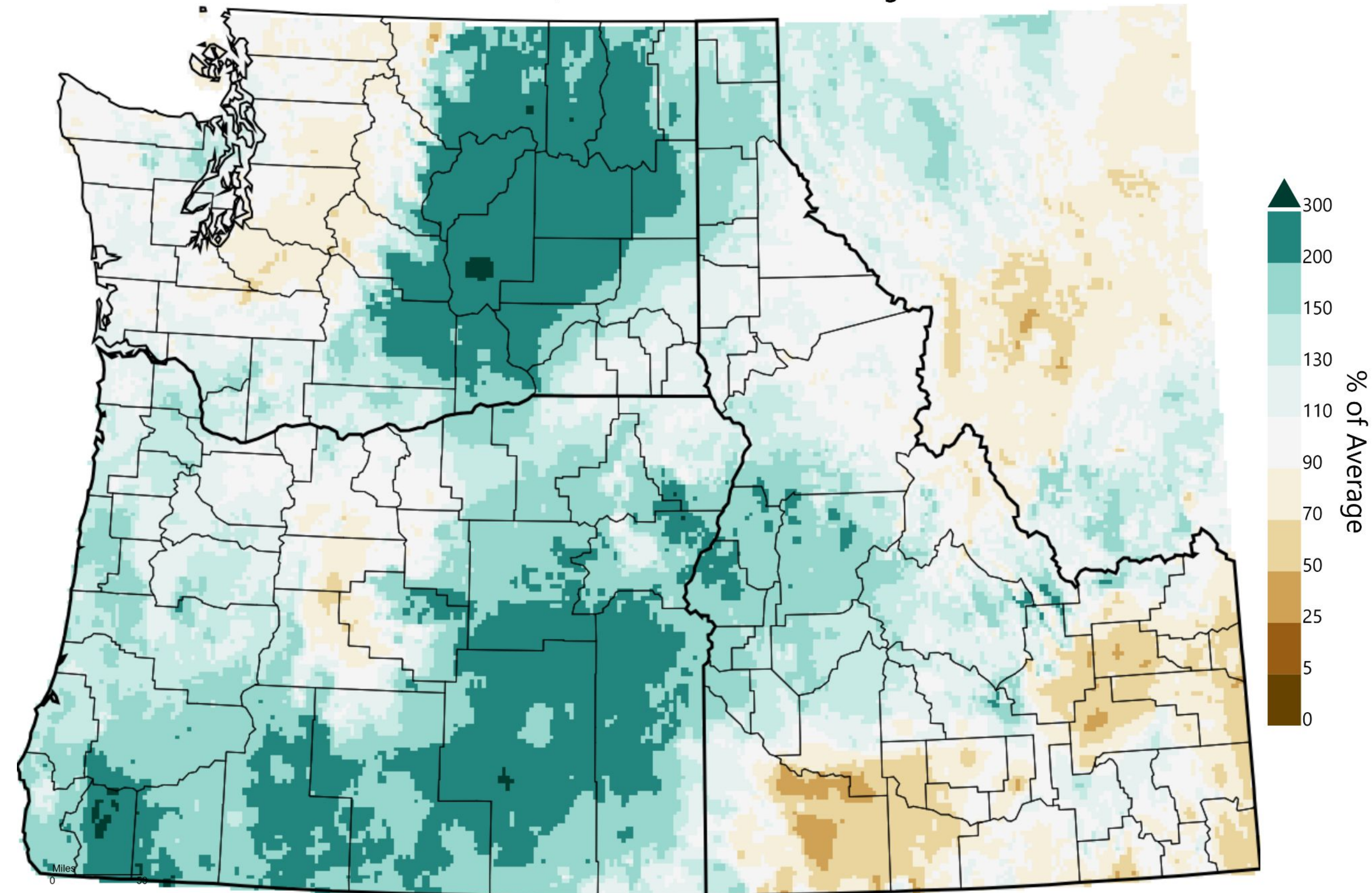
- Iowa State University's website provides a nice graphical interface for viewing archived local storm reports. See the following link for November's local storm reports in NWS Pendleton's forecast area:
<https://mesonet.agron.iastate.edu/lsr/#PDT/202411010700/202412010800/011011>
- For recent LSRs, <https://www.weather.gov/source/crh/lsrcmap.html?sid=pdt> or <https://mesonet.agron.iastate.edu/lsr/#PDT/YYYYMMDDHHmm/YYYYMMDDHHmm/111111> and change the time to your desired date range.



Precipitation Anomaly - November 2024

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Pacific Northwest - Precipitation
November 2024, Percent of 1991-2020 Average



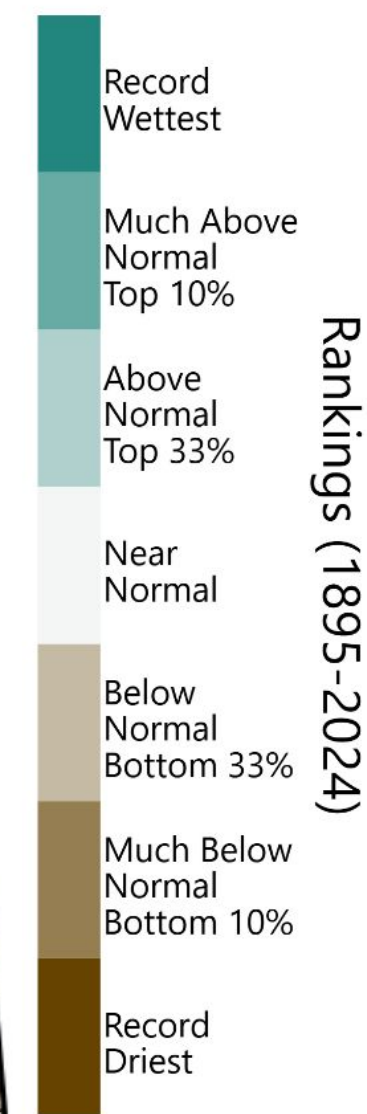
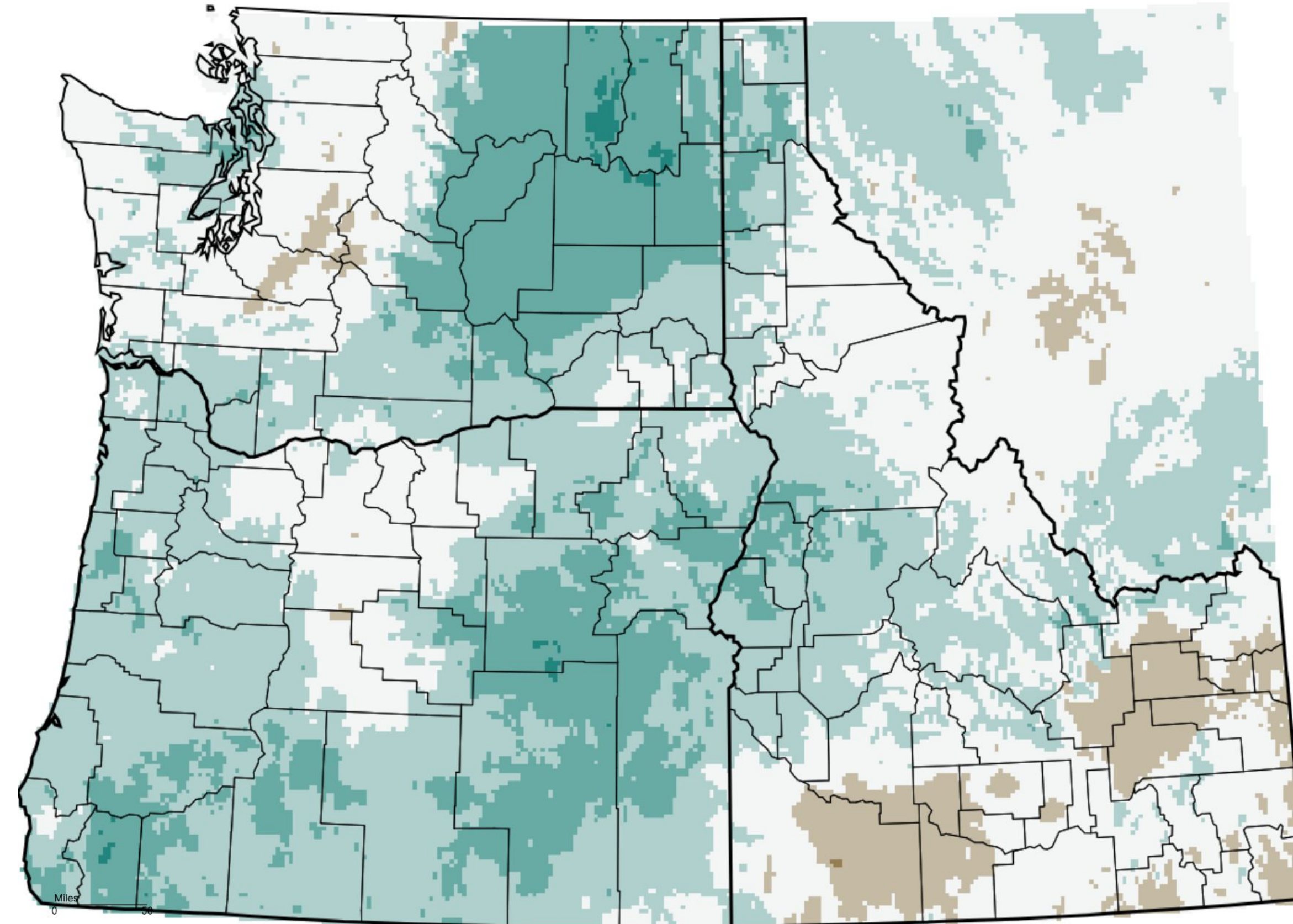
Near- to above-normal precipitation was observed across our forecast area during November, except across portions of central Oregon and the central Washington Cascades which recorded below-normal precipitation.



Precipitation Percentiles - November 2024

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Pacific Northwest - Precipitation November 2024, Percentile

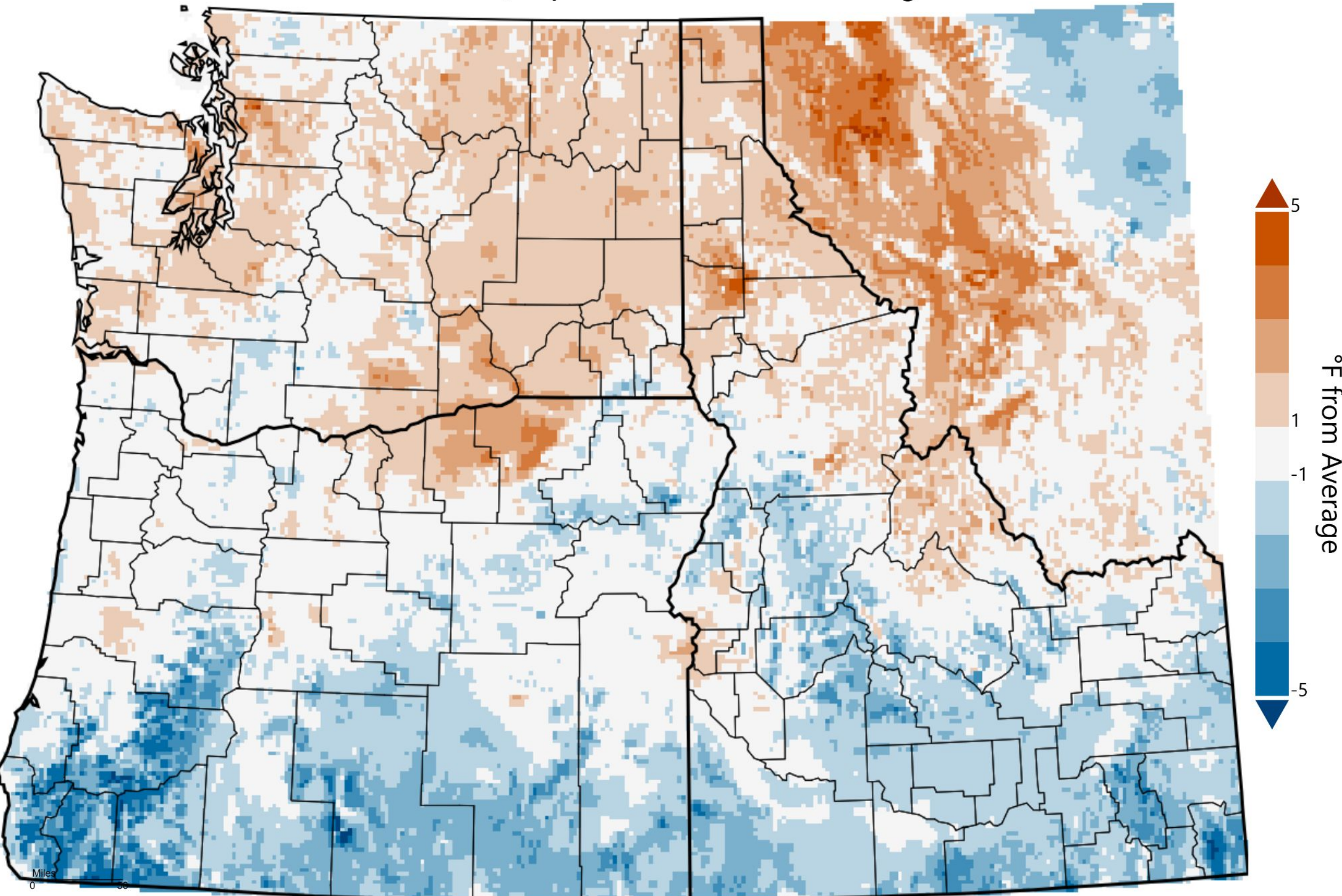


Rankings (1895-2024)

For historical context, mostly above- or much-above-normal precipitation (top 33% and 10% of all years, respectively) was observed during November, except for near- to below-normal precipitation in central Oregon and along the central Washington Cascades.

Temperature Anomaly - November 2024

Pacific Northwest - Mean Temperature
November 2024, Departure from 1991-2020 Average



Mean (average) temperatures were predominantly near or slightly below normal (relative to the 1991-2020 climate reference period) across the mountainous portions of our forecast area during November. In the Columbia Basin and along the Blue Mountain foothills, mostly above-normal temperatures were observed.

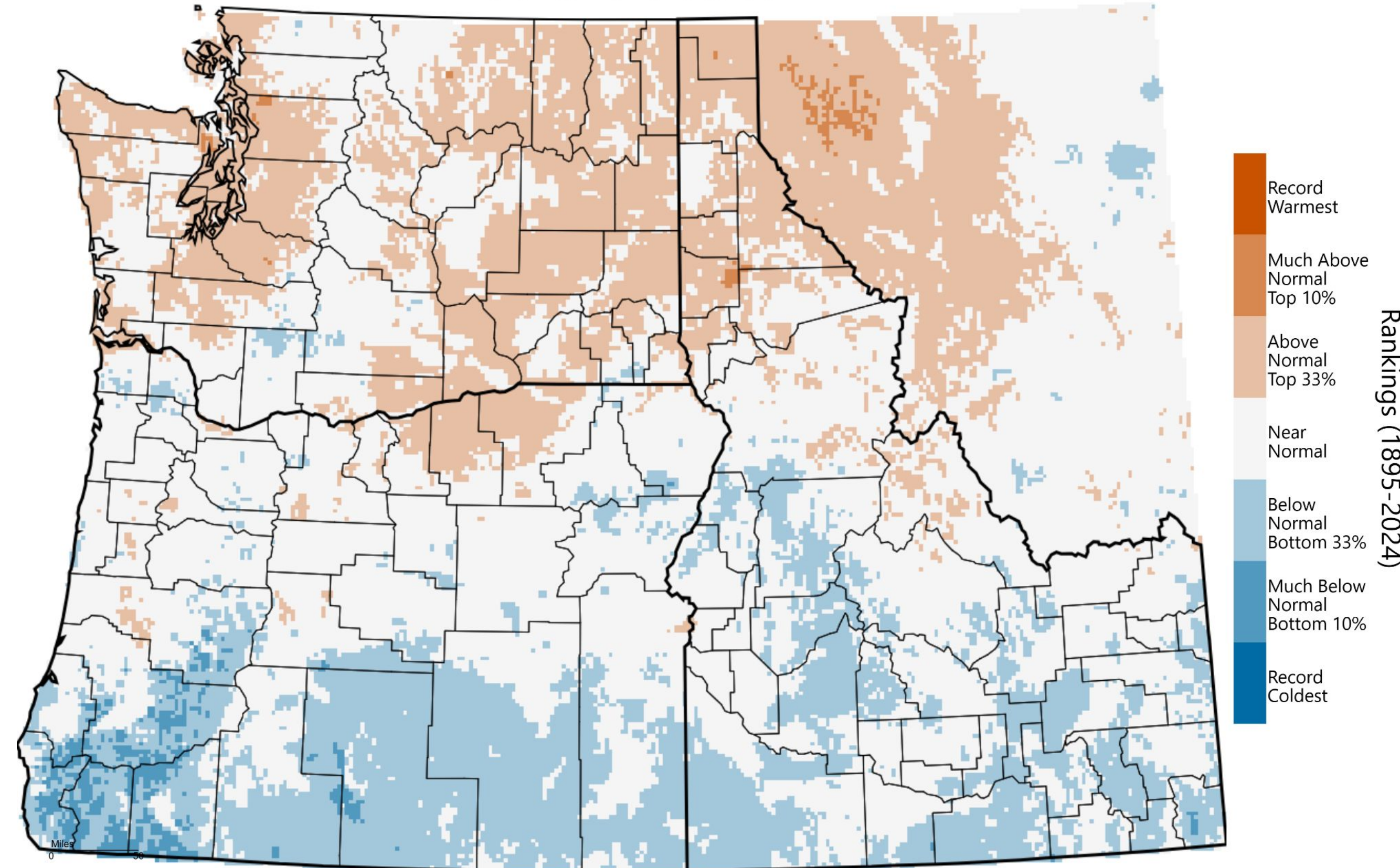


Temperature Percentiles - November 2024

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Pacific Northwest - Mean Temperature
November 2024, Percentile

For historical context, mean (average) temperatures during November were mostly near normal or above normal (top 33% of all years) in the lower elevations, while mountain areas observed mostly near-normal temperatures.



Rankings (1895-2024)



November 2024 Climate Statistics - Pendleton ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	61	-	-
Average Daily Maximum Temperature (F)	50.6	49.1	1.5
Average Daily Minimum Temperature (F)	36.7	32.3	4.4
Coolest Daily Minimum Temperature (F)	28	-	-
Average Temperature (F)	43.7	40.7	3.0
Total Precipitation (inches)	2.34	1.39	0.95
Total Snow (inches)	0.0	1.2	-1.2

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)	0.80	22nd

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - Walla Walla ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	55	-	-
Average Daily Maximum Temperature (F)	48.8	49.2	-0.4
Average Daily Minimum Temperature (F)	36.6	35.6	1.0
Coolest Daily Minimum Temperature (F)	27	-	-
Average Temperature (F)	42.7	42.4	0.3
Total Precipitation (inches)	2.75	2.25	0.50

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - The Dalles ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	59	-	-
Average Daily Maximum Temperature (F)	51.5	50.2	1.3
Average Daily Minimum Temperature (F)	37.6	35.1	2.5
Coolest Daily Minimum Temperature (F)	26	-	-
Average Temperature (F)	44.6	42.7	1.9
Total Precipitation (inches)	2.07	1.97	0.10

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - Ellensburg ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	57	-	-
Average Daily Maximum Temperature (F)	47.0	46.6	0.4
Average Daily Minimum Temperature (F)	31.4	28.7	2.7
Coolest Daily Minimum Temperature (F)	21	-	-
Average Temperature (F)	39.2	37.6	1.6
Total Precipitation (inches)	1.81	1.05	0.76

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - Hermiston ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	63	-	-
Average Daily Maximum Temperature (F)	52.5	50.7	1.8
Average Daily Minimum Temperature (F)	35.9	32.3	3.6
Coolest Daily Minimum Temperature (F)	25	-	-
Average Temperature (F)	44.2	41.5	2.7
Total Precipitation (inches)	1.87	1.05	0.82

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - Meacham ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	55	-	-
Average Daily Maximum Temperature (F)	40.7	43.3	-2.6
Average Daily Minimum Temperature (F)	26.4	25.8	0.6
Coolest Daily Minimum Temperature (F)	14	-	-
Average Temperature (F)	33.5	34.5	-1.0
Total Precipitation (inches)	5.85	4.84	1.01

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		



November 2024 Climate Statistics - Pasco ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	62	-	-
Average Daily Maximum Temperature (F)	51.5	49.9	1.6
Average Daily Minimum Temperature (F)	35.7	31.9	3.8
Coolest Daily Minimum Temperature (F)	25	-	-
Average Temperature (F)	43.6	40.9	2.7
Total Precipitation (inches)	1.77	0.87	0.90

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - Redmond ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	68	-	-
Average Daily Maximum Temperature (F)	51.3	50.8	0.5
Average Daily Minimum Temperature (F)	28.8	27.5	1.3
Coolest Daily Minimum Temperature (F)	14	-	-
Average Temperature (F)	40.1	39.1	1.0
Total Precipitation (inches)	0.53	0.81	-0.28

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



November 2024 Climate Statistics - Yakima ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

Variable (units)	Observed	Normal	Departure
Warmest Daily Maximum Temperature (F)	62	-	-
Average Daily Maximum Temperature (F)	48.5	48.9	-0.4
Average Daily Minimum Temperature (F)	30.2	27.2	3.0
Coolest Daily Minimum Temperature (F)	18	-	-
Average Temperature (F)	39.4	38.0	1.4
Total Precipitation (inches)	1.93	0.86	1.07

Variable (units)	Value	Day
Daily Record High Temperature (F)		
Daily Record Low Temperature (F)		
Daily Record Precipitation (inches)		

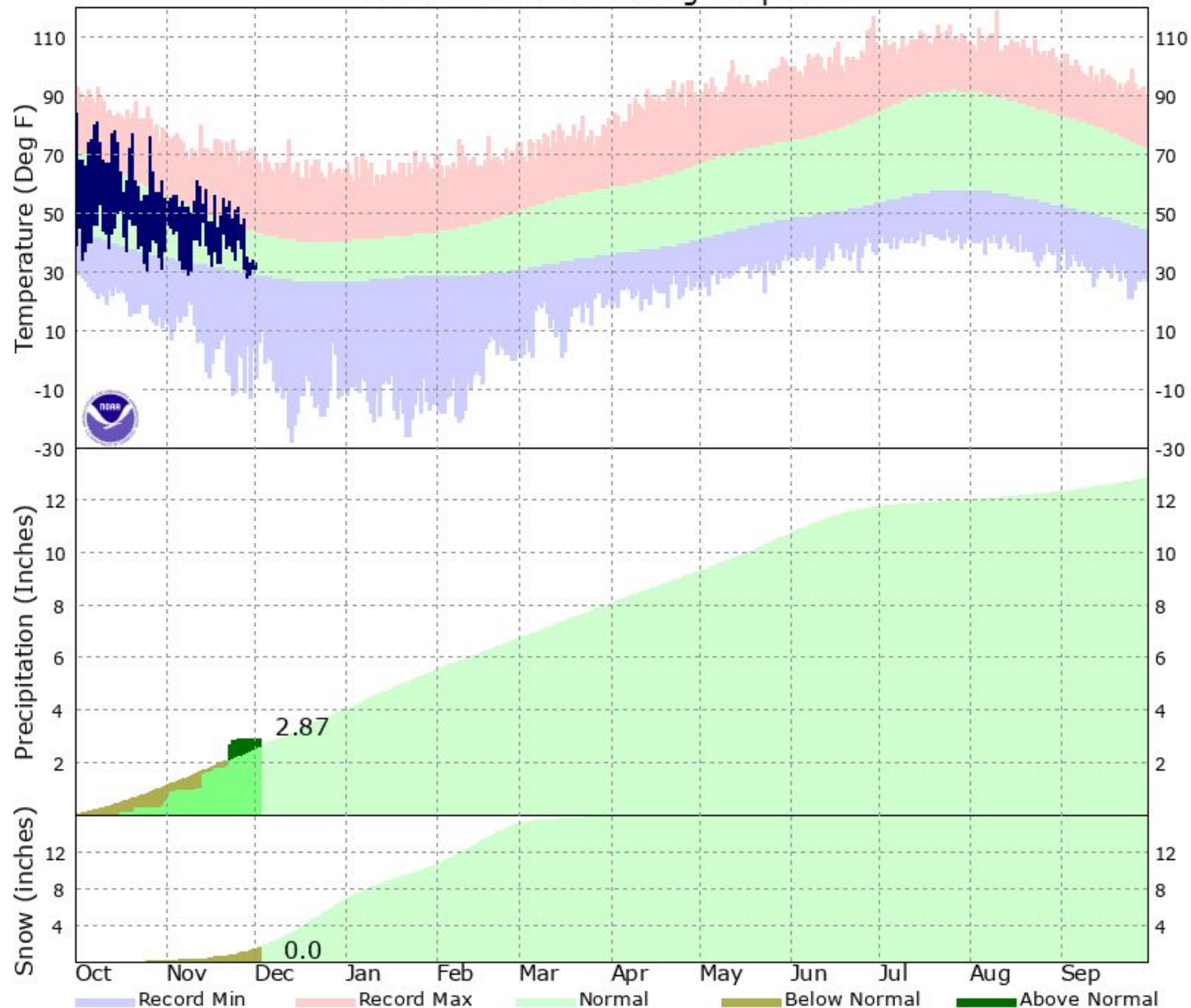
Additional climate statistics can be found here: <https://www.weather.gov/wrh/climate?wfo=pdt>



Water Year Climate Graphs - Pendleton ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KPDT - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Pendleton has observed slightly above-normal precipitation and below-normal snowfall.

The latest graphs are located here:

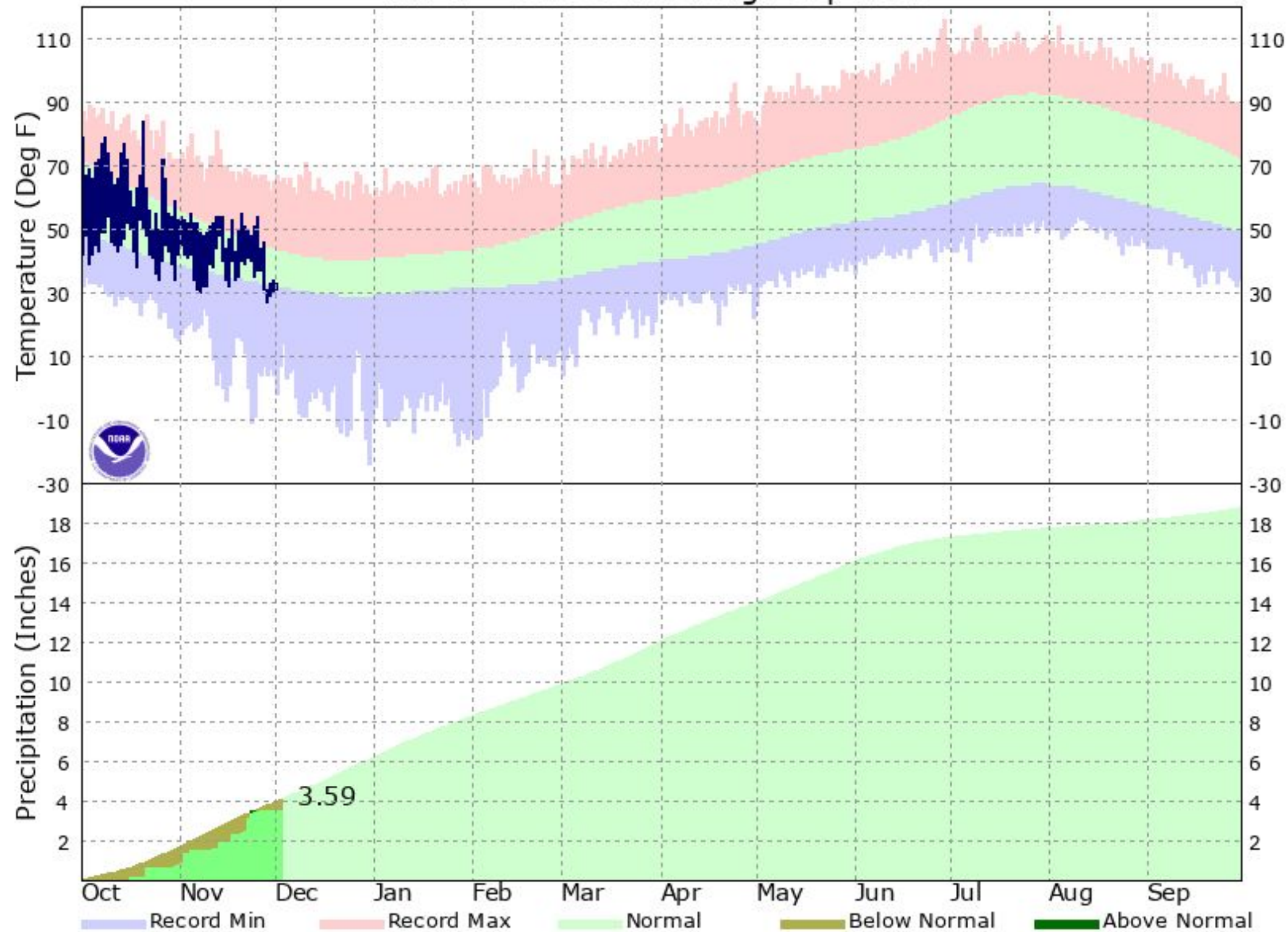
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Walla Walla ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KALW - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Walla Walla has received slightly below-normal precipitation.

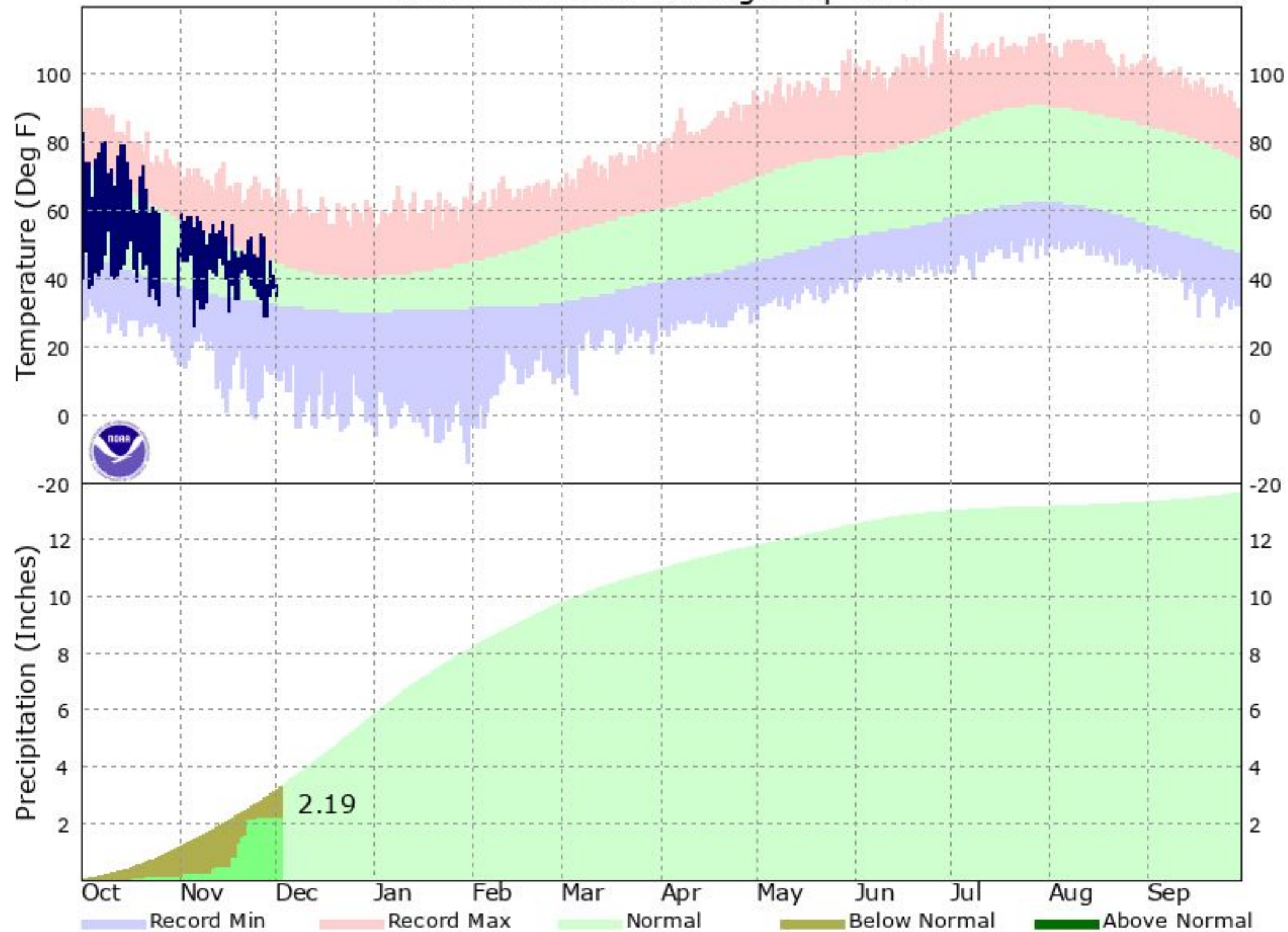
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - The Dalles ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KDLS - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, The Dalles has recorded below-normal precipitation.

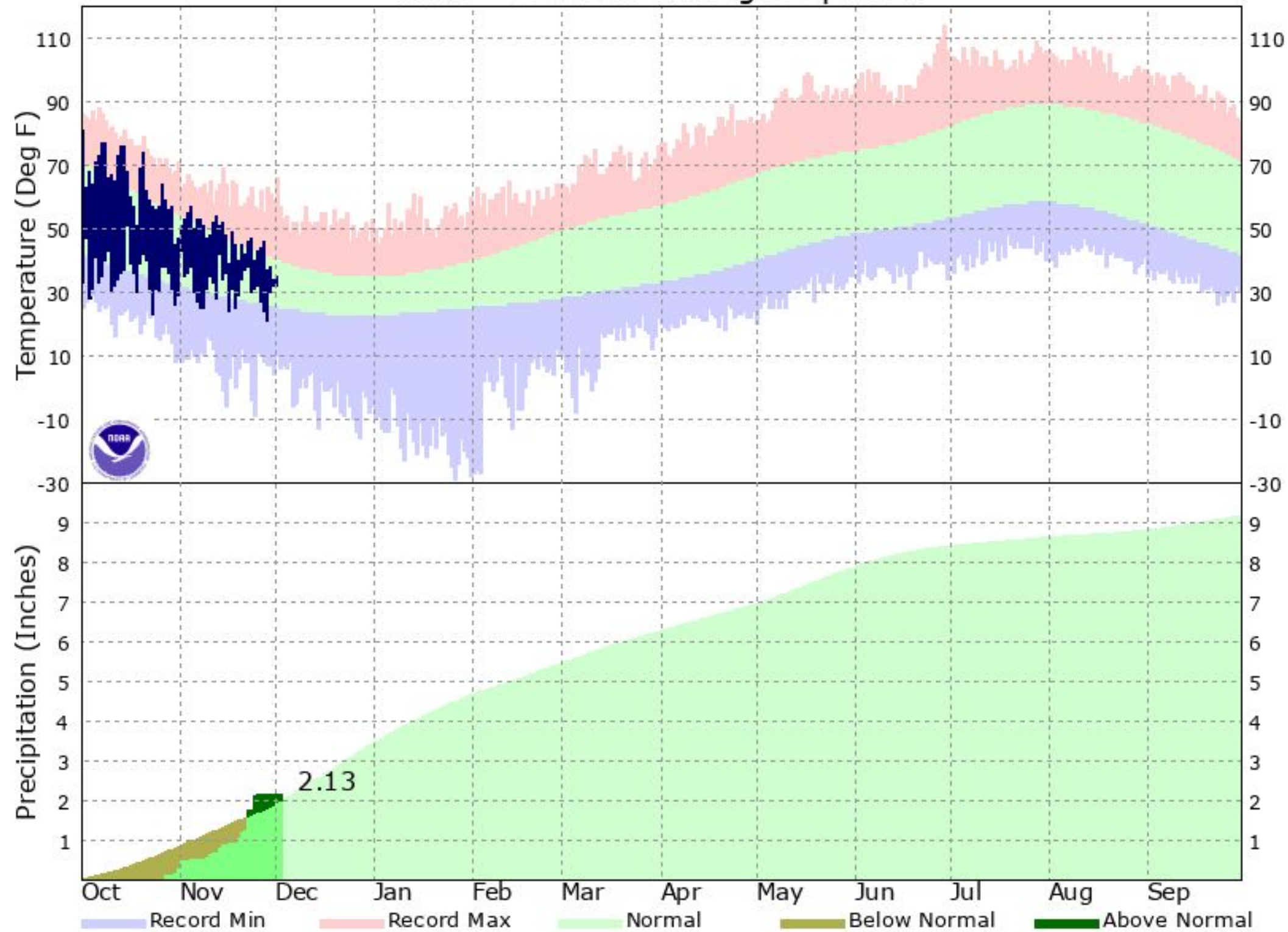
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Ellensburg ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KELN - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Ellensburg has observed slightly above-normal precipitation.

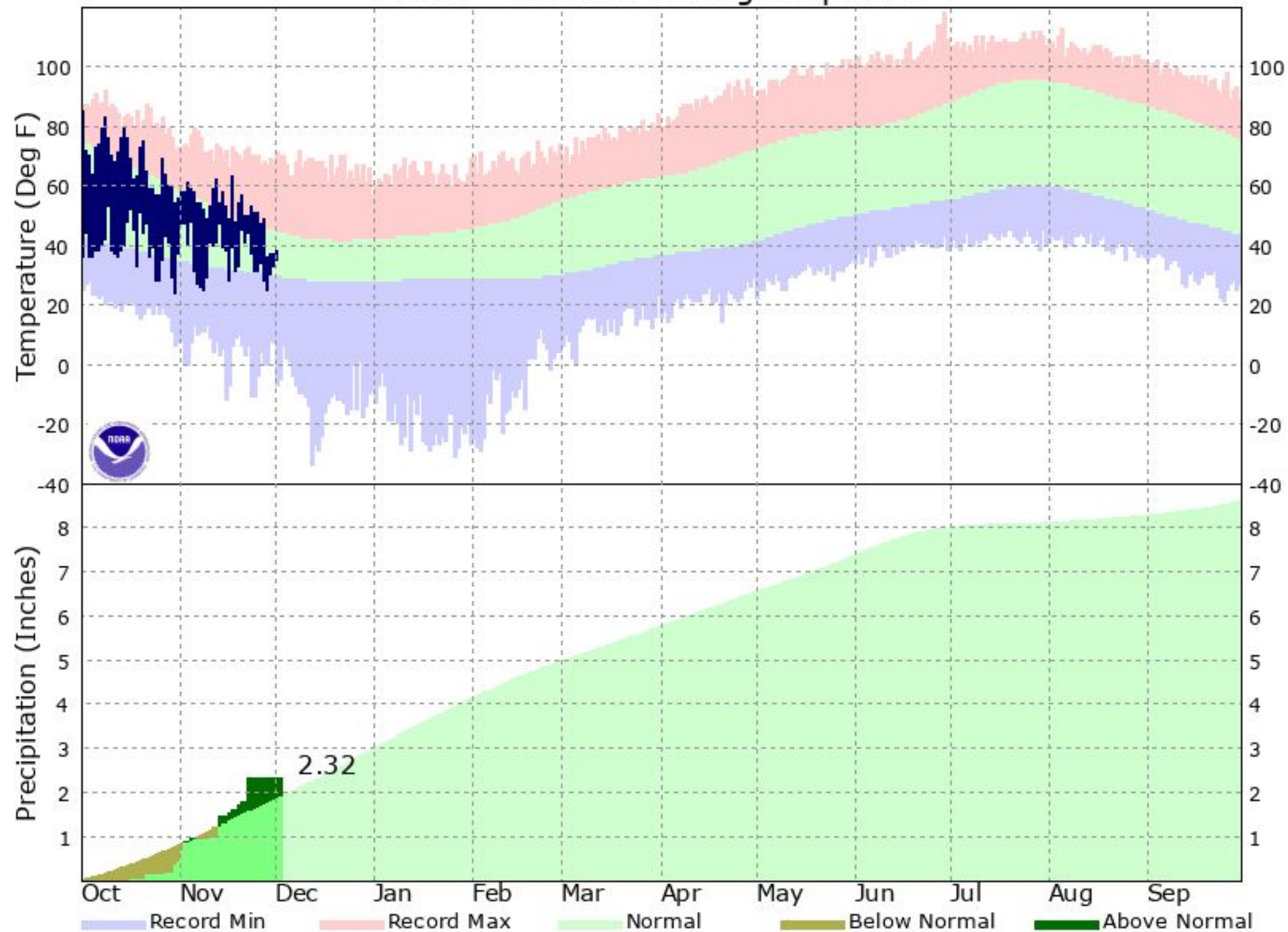
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Hermiston ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KHRI - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Hermiston has recorded above-normal precipitation.

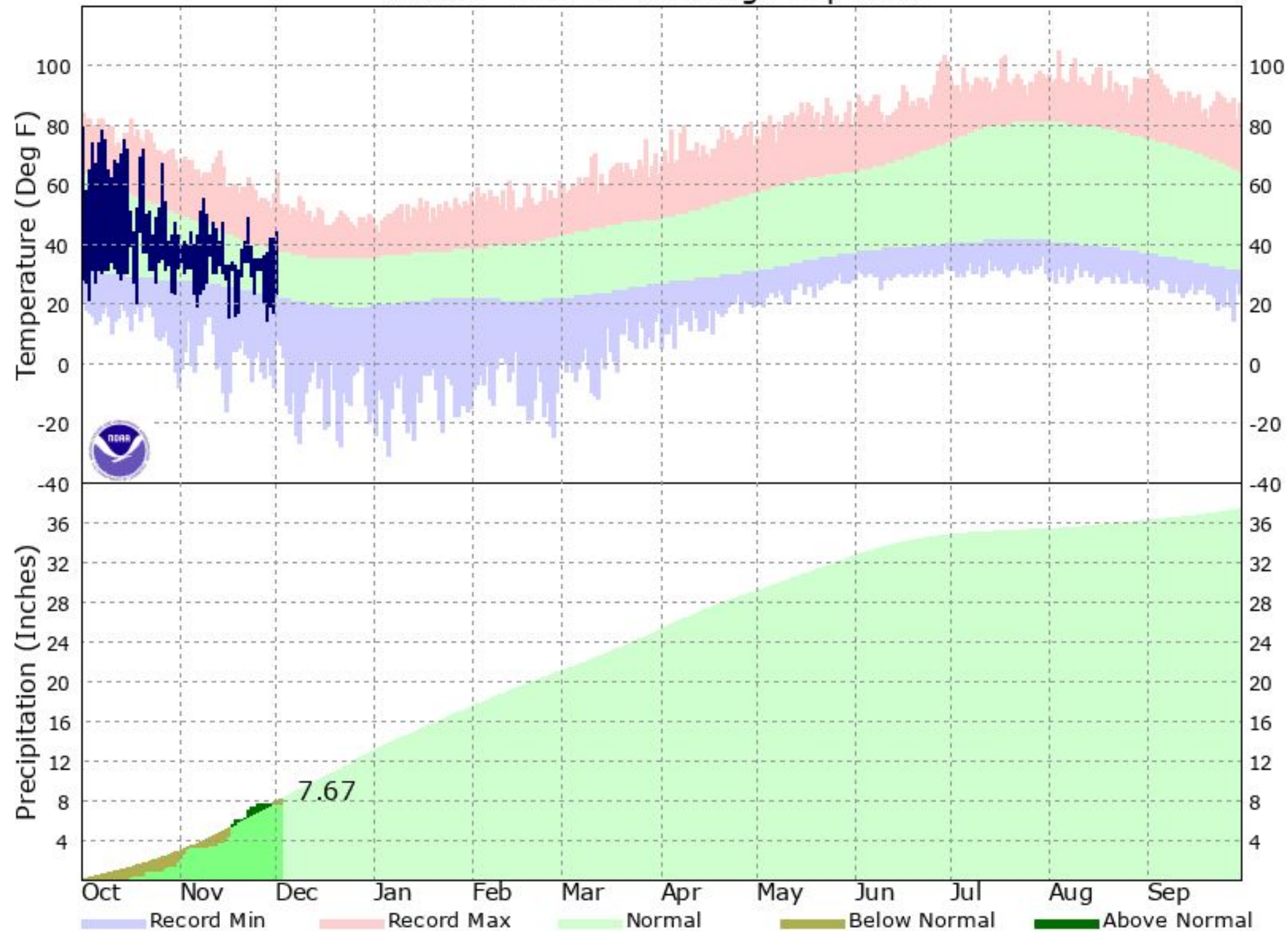
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Meacham ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KMEH - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Meacham has received near-normal precipitation.

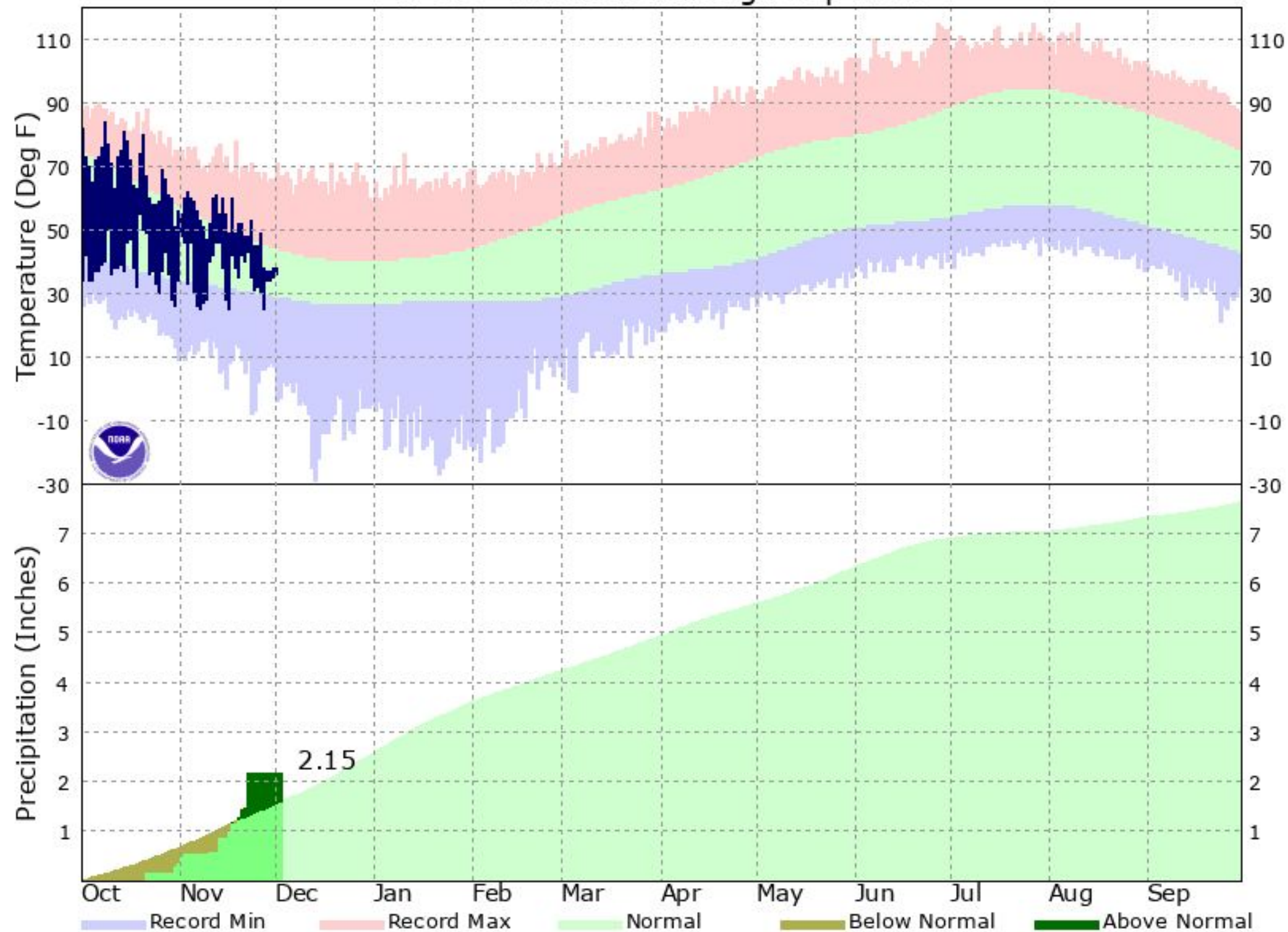
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Pasco ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KPSC - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Pasco has observed above-normal precipitation.

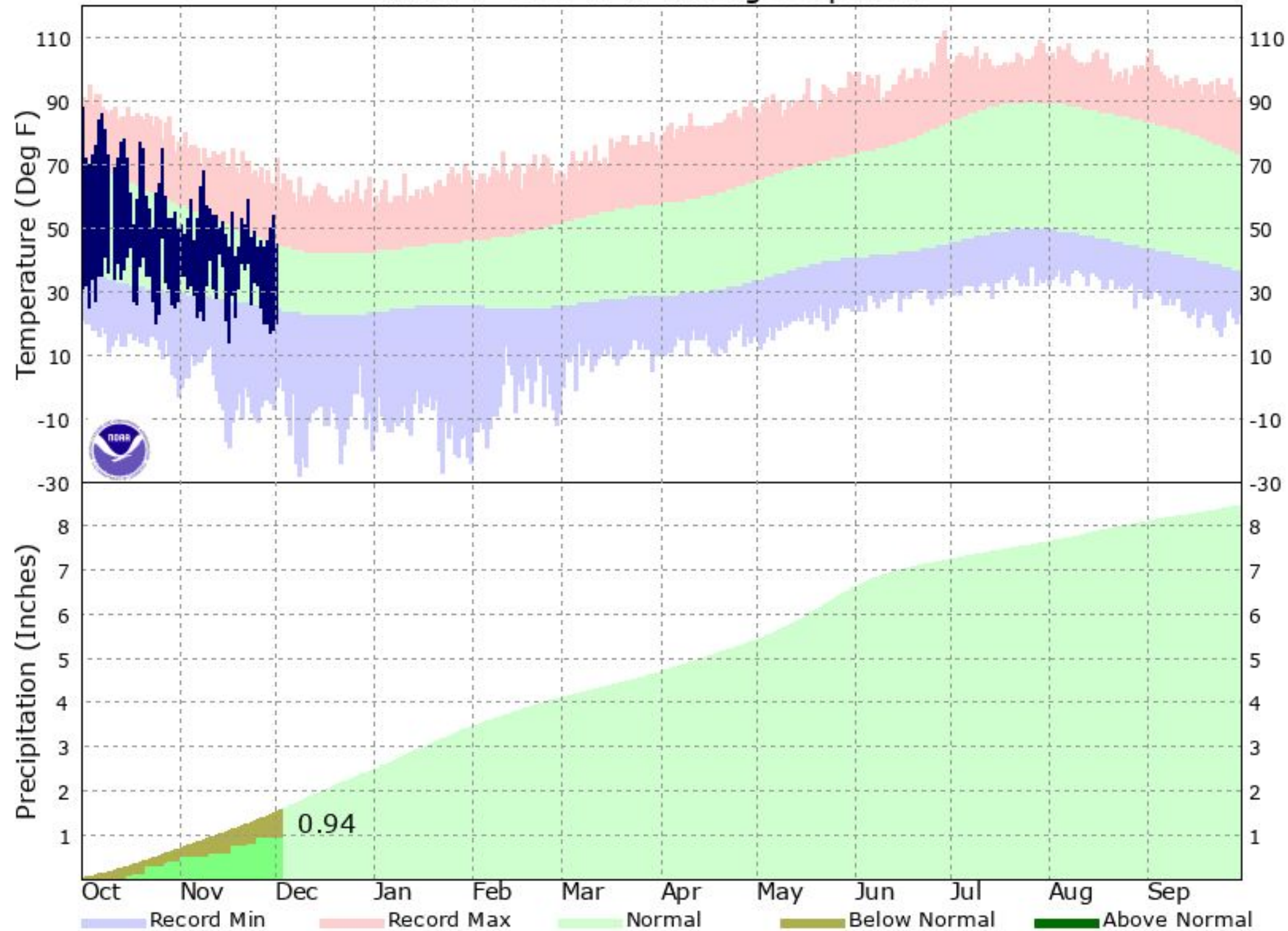
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Redmond ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KRDM - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Redmond has recorded below-normal precipitation.

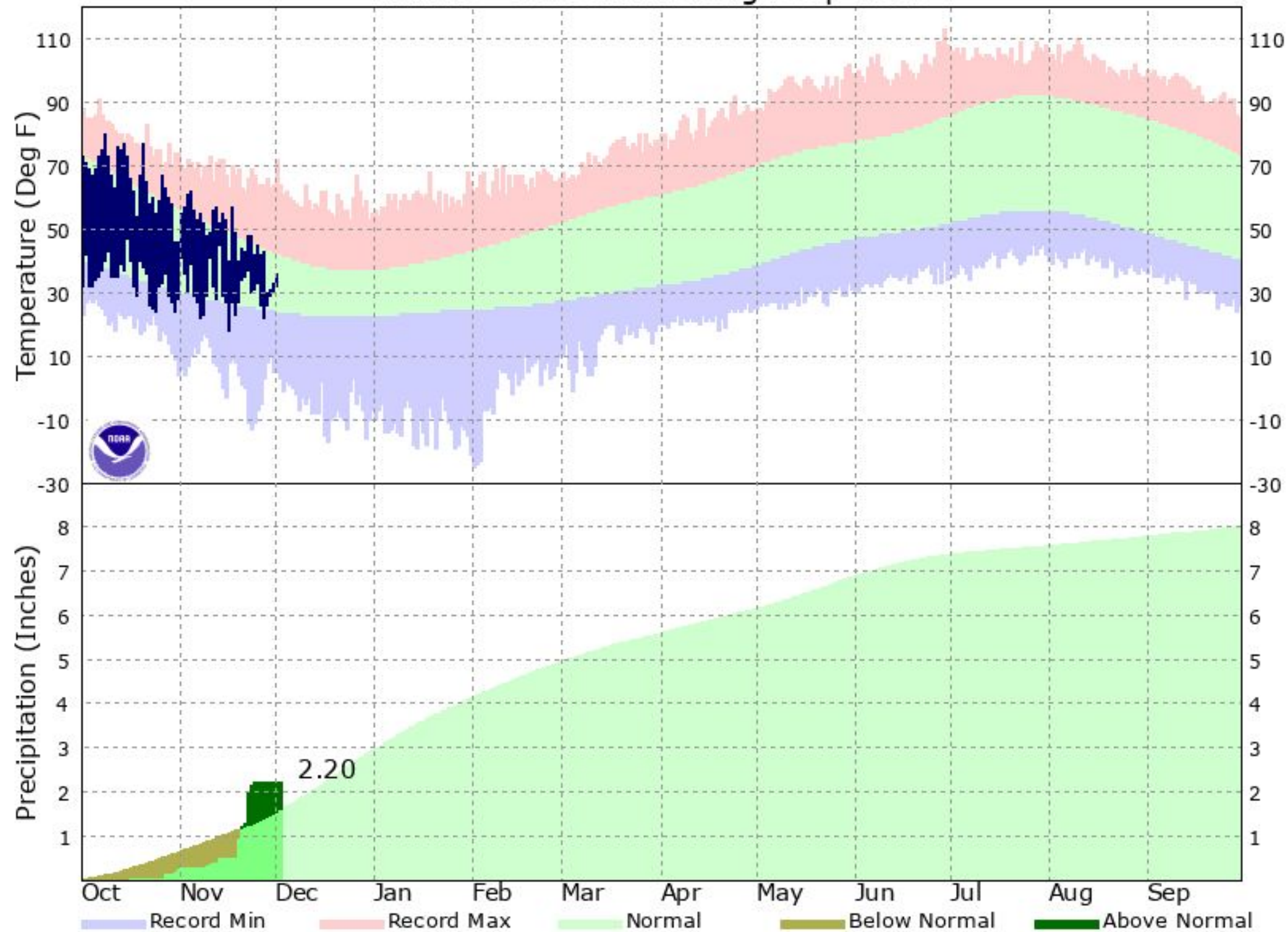
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Water Year Climate Graphs - Yakima ASOS

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

KYKM - Oct 2024 Through Sep 2025



During the October 2024 - September 2025 water year, Yakima has recorded above-normal precipitation.

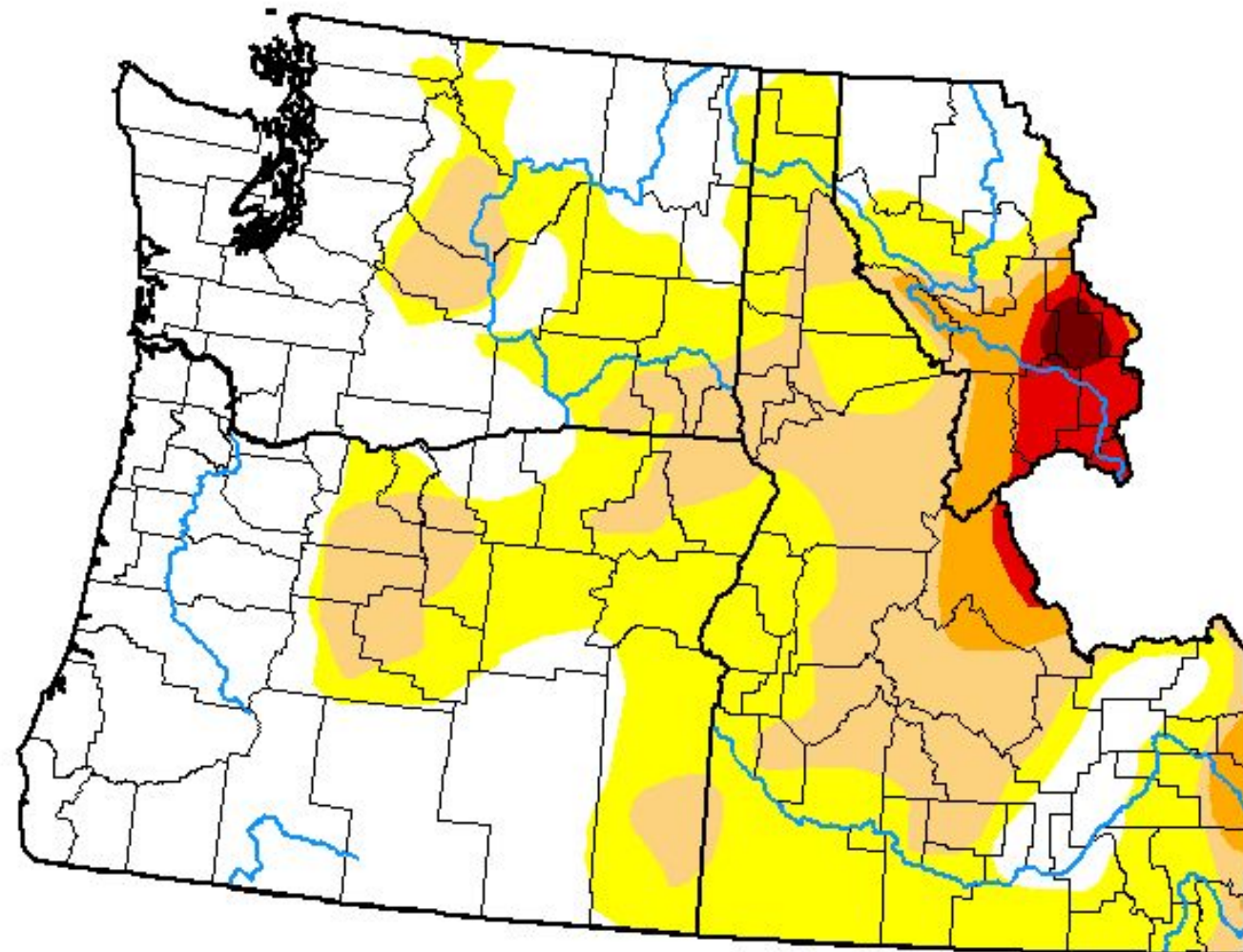
The latest graphs are located here:
<https://www.weather.gov/pdt/CliPlot>



Drought Status: Early December

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

U.S. Drought Monitor Pacific Northwest DEWS



December 3, 2024
(Released Thursday, Dec. 5, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	44.50	55.50	23.83	5.83	2.38	0.44
Last Week 11-26-2024	35.51	64.49	23.83	5.83	2.38	0.44
3 Months Ago 09-03-2024	12.12	87.88	51.89	11.20	3.15	0.49
Start of Calendar Year 01-02-2024	44.06	55.94	26.37	4.48	0.00	0.00
Start of Water Year 10-01-2024	13.07	86.93	56.26	11.40	2.27	0.49
One Year Ago 12-05-2023	46.75	53.25	24.59	7.07	0.00	0.00

Intensity:

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

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

David Simeral
Western Regional Climate Center



droughtmonitor.unl.edu

D4 (Exceptional Drought): None.

D3 (Extreme Drought): None.

D2 (Severe Drought): None.

D1 (Moderate Drought): Portions of Kittitas, Yakima, Walla Walla, Columbia, Wallowa, Union, Umatilla, Gilliam, Sherman, Wasco, Jefferson, Crook, Wheeler, and Deschutes counties.

D0 (Abnormally Dry): Portions of all counties except Klickitat.

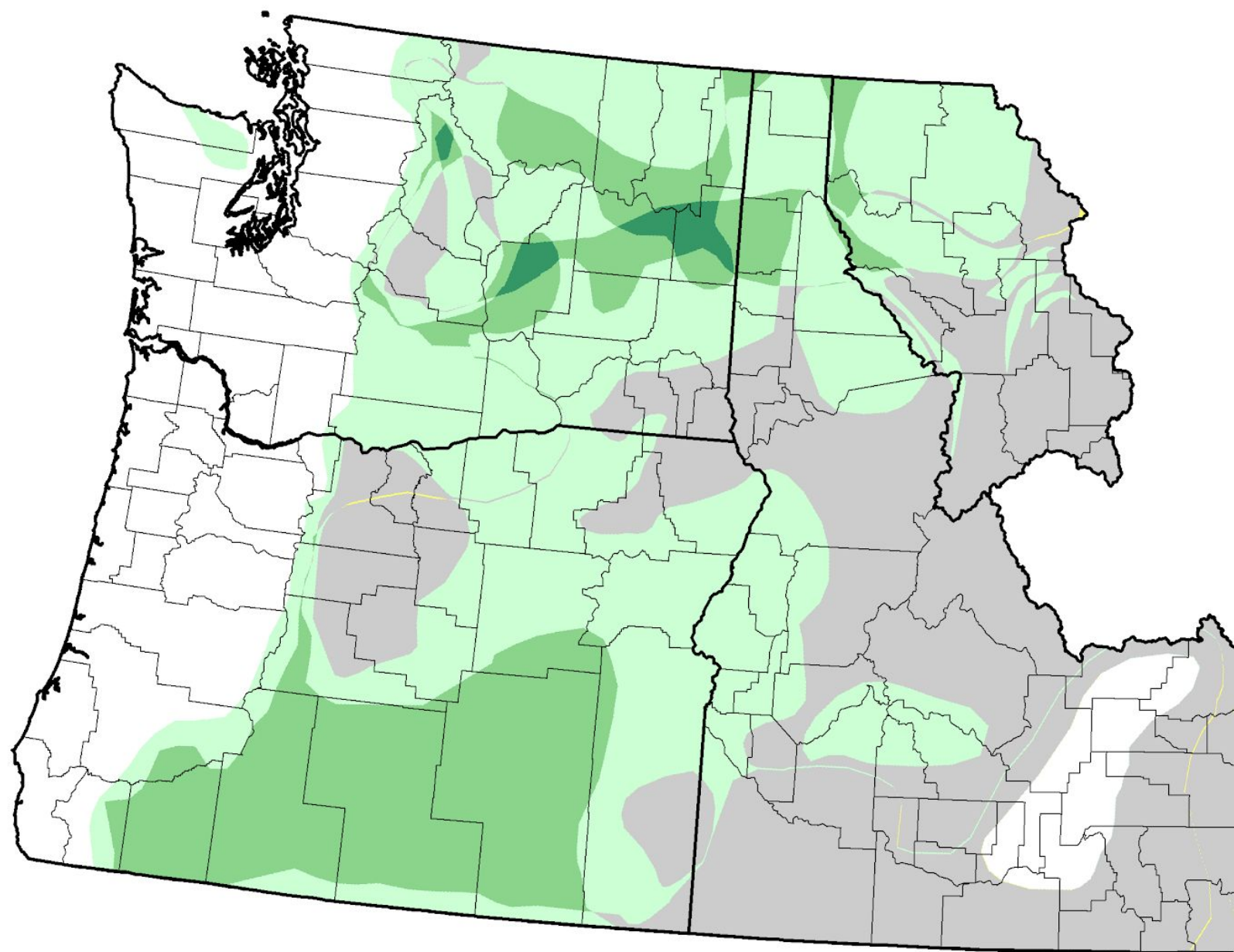
For the latest conditions, please see droughtmonitor.unl.edu



Drought Evolution: 4-Week Change during November

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

U.S. Drought Monitor Class Change - Pacific Northwest DEWS
4 Week



- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

December 3, 2024
compared to
November 5, 2024

droughtmonitor.unl.edu

Improved: Portions of all counties.

Degraded: None.

No change: Portions of Kittitas, Walla Walla, Columbia, Union, Umatilla, Wallowa, Deschutes, Crook, Jefferson, Wheeler, Wasco, Sherman, and Gilliam counties.



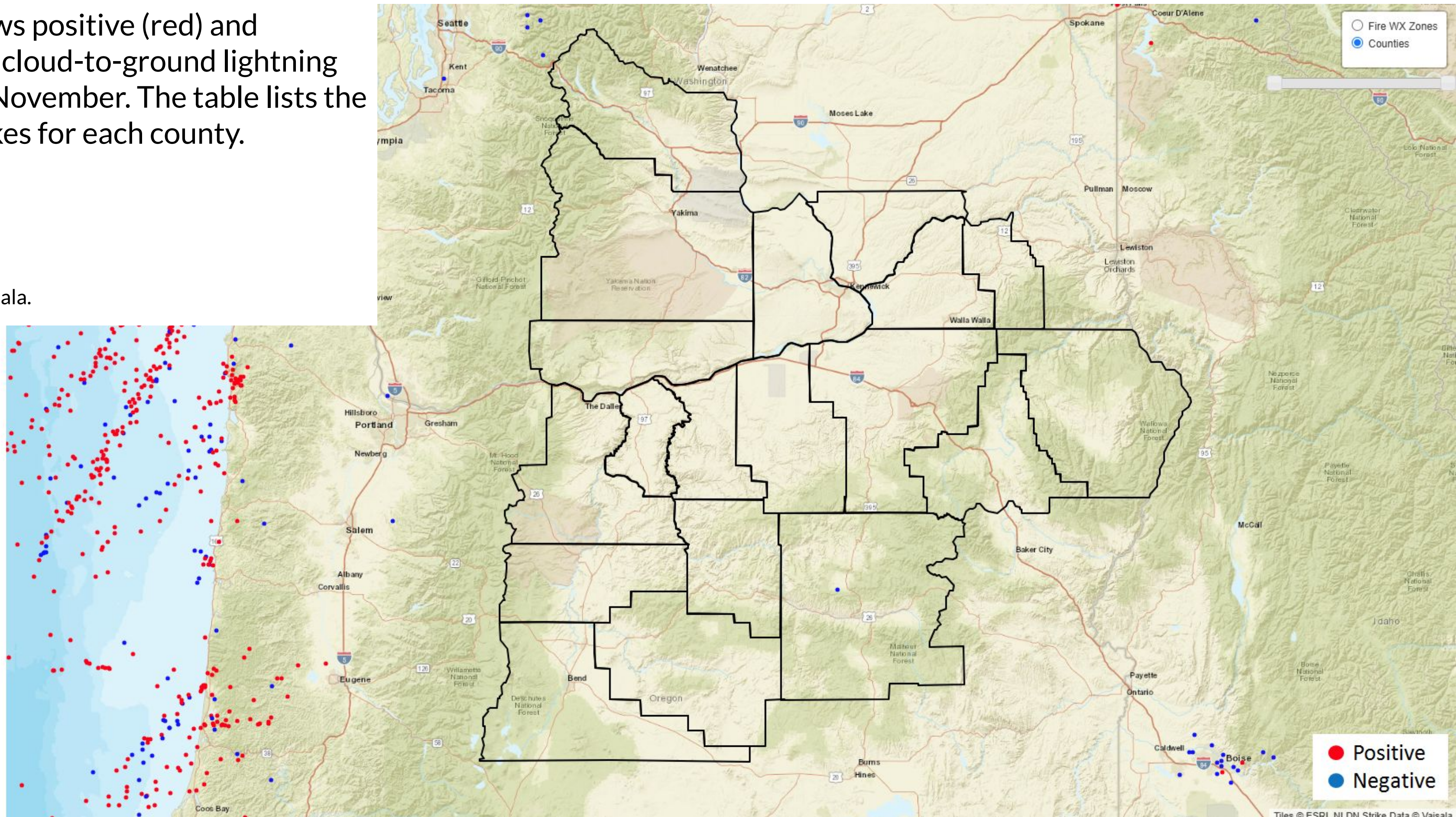
Lightning - November

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

The image shows positive (red) and negative (blue) cloud-to-ground lightning strikes during November. The table lists the number of strikes for each county.

Data provided by Vaisala.

County	Strikes
Grant OR	1

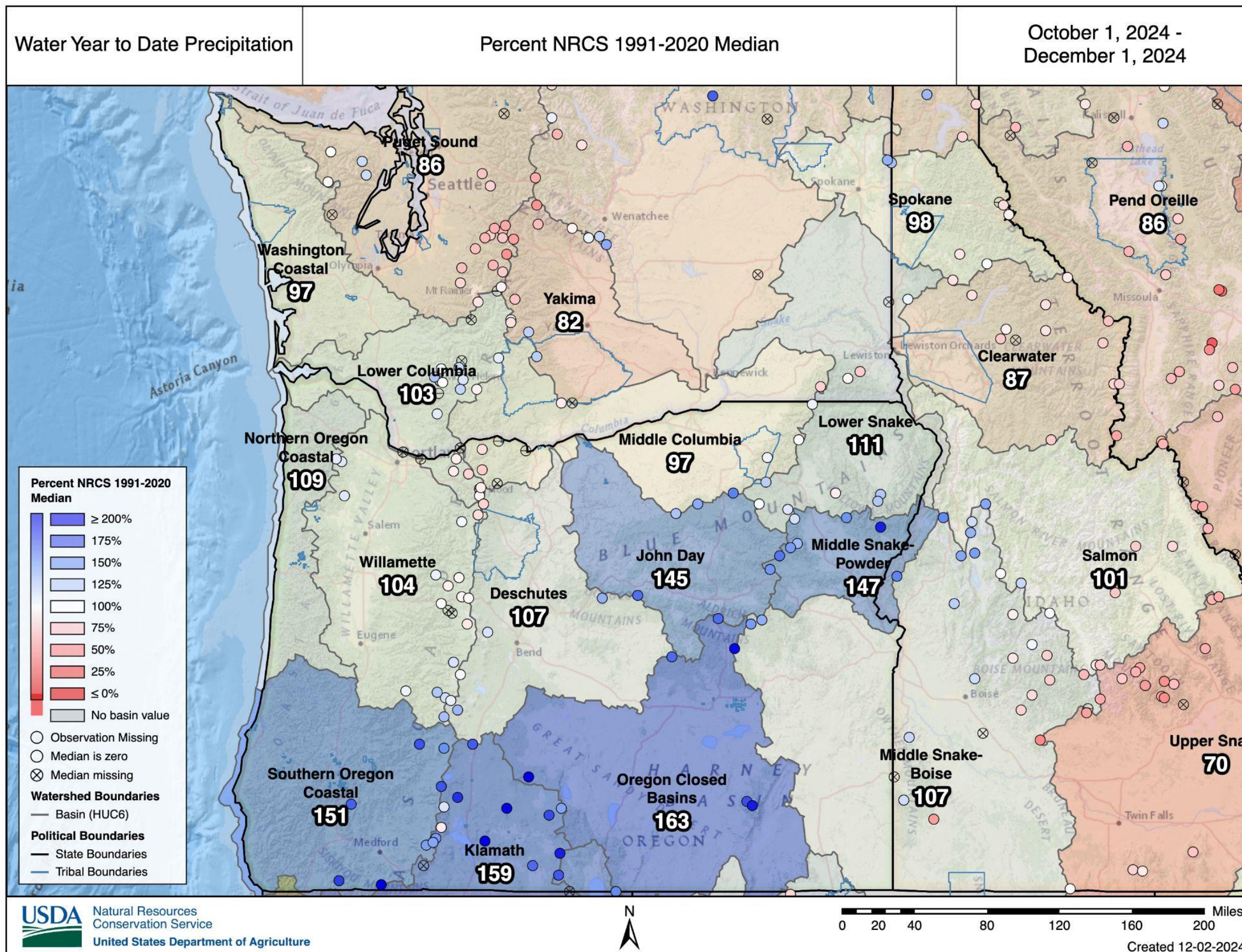


● Positive
● Negative



SNOTEL Precipitation - Basin/Watershed Map

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

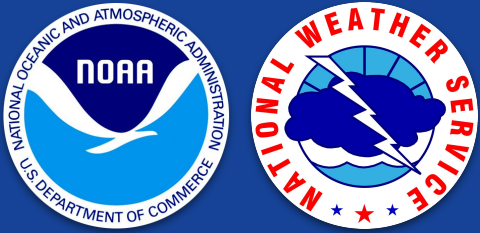


Basin-wide SNOTEL precipitation for the water year to date (October 1, 2024 - December 1, 2024) relative to the 1991-2020 median is shown on the left. Basin names are displayed, and individual SNOTELs are represented as circles.

For the water year to date through December 1st, precipitation was mostly near or above the climatological median for areas south of approximately 45-46N latitude. Conversely, precipitation was mostly near or below the median north of roughly 45-46N latitude.

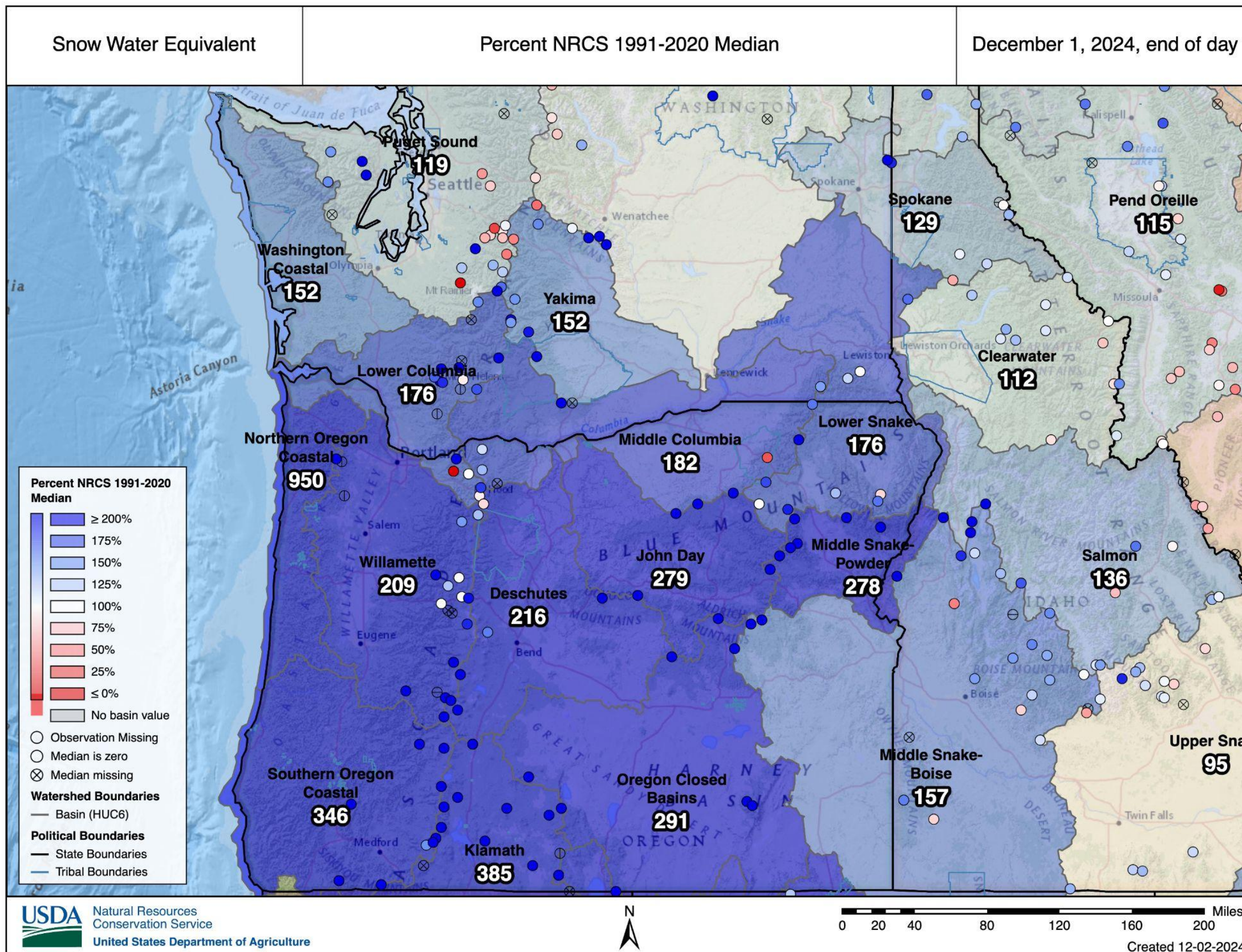
View the latest conditions here:

<https://nwcc-apps.sc.egov.usda.gov/imap/#version=169&elements=&networks=1&states=1&basins=1&hucs=&minElevation=&maxElevation=&elementSelectType=any&activeOnly=true&activeForecastPointsOnly=false&hucLabels=true&hucIdLabels=false&hucParameterLabels=true&stationLabels=&overlays=&hucOverlays=state,tribal&basinOpacity=55&basinNoDataOpacity=25&basemapOpacity=100&maskOpacity=0&mode=data&openSections=data&Element.parameter.date.basin.options.elements.location.networks.overlays.labels&controlsOpen=true&popup=&popupMulti=&popupBasin=&base=esriNgwm&displayType=basinstation&basinType=6&dataElement=PREC&depth=-8¶meter=PCTMED&frequency=DAILY&duration=wytd&customDuration=&dayPart=E&monthPart=E&forecastPubDay=1&forecastExceedance=50&useMixedPast=true&seqColor=1&divColor=5&scaleType=D&scaleMin=&scaleMax=&referencePeriodType=POR&referenceBegin=1991&referenceEnd=2020&minimumYears=20&hucAssociations=true&relativeDate=-1&lat=45.285&lon=-120.027&zoom=6.5>



SNOTEL Snow Water Equivalent (SWE) - Basin/Watershed Map

Weather Forecast Office
Pendleton, OR
Tuesday, January 7



Basin-wide snow water equivalent (SWE) percent of 1991-2020 median as of December 1st, 2024 is shown on the left. Basin names are displayed, and individual SNOTELs are represented as circles.

View the latest conditions here:

<https://nwcc-apps.sc.egov.usda.gov/imap/#version=169&elements=&networks=!&states=!&basins=!&hucs=&minElevation=&maxElevation=&elementSelectType=any&activeOnly=true&activeForecastPointsOnly=false&hucLabels=true&hucIdLabels=false&hucParameterLabels=true&stationLabels=&overlays=&hucOverlays=state,tribal&basinOpacity=55&basinNoDataOpacity=25&basemapOpacity=100&maskOpacity=0&mode=data&openSections=dataElement,parameter,date,basin,options,elements,location,networks,overlays,labels&controlsOpen=true&popup=&popupMulti=&popupBasin=&base=esriNgwm&displayType=basinstation&basinType=6&dataElement=WTEQ&depth=-8¶meter=PCTMED&frequency=DAILY&duration=1&customDuration=&dayPart=E&monthPart=E&forecastPubDay=1&forecastExceedance=50&useMixedPast=true&seqColor=1&divColor=5&scaleType=D&scaleMin=&scaleMax=&referencePeriodType=POR&referenceBegin=1991&referenceEnd=2020&minimumYears=20&hucAssociations=true&relativeDate=-1&lat=45.285&lon=-120.027&zoom=6.5>



SNOTEL Snow Water Equivalent (SWE) - Lower Snake Watershed

SNOW WATER EQUIVALENT IN LOWER SNAKE

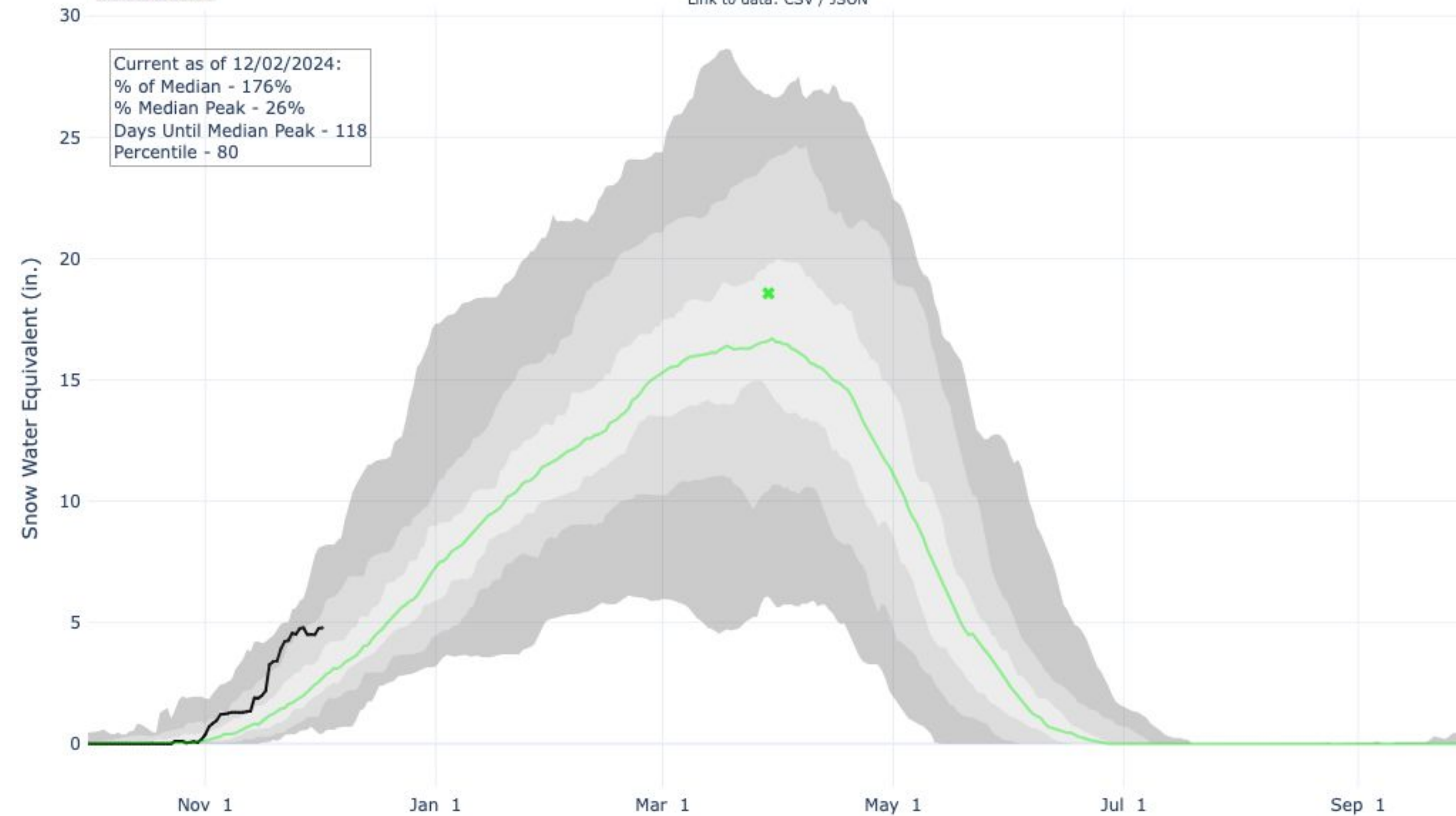
Reset Range

Link to data: CSV / JSON

Current as of 12/02/2024:
% of Median - 176%
% Median Peak - 26%
Days Until Median Peak - 118
Percentile - 80

Station List

- ✖ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 2025 (16 sites)



Shading breaks at the 10th, 30th, 50th, 70th, and 90th percentiles for the period of record.

The black line indicates the current water year, while the green line shows the median value, and the green "x" is the median peak SWE magnitude and date.





SNOTEL Snow Water Equivalent (SWE) - Middle Columbia Watershed

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

SNOW WATER EQUIVALENT IN MIDDLE COLUMBIA

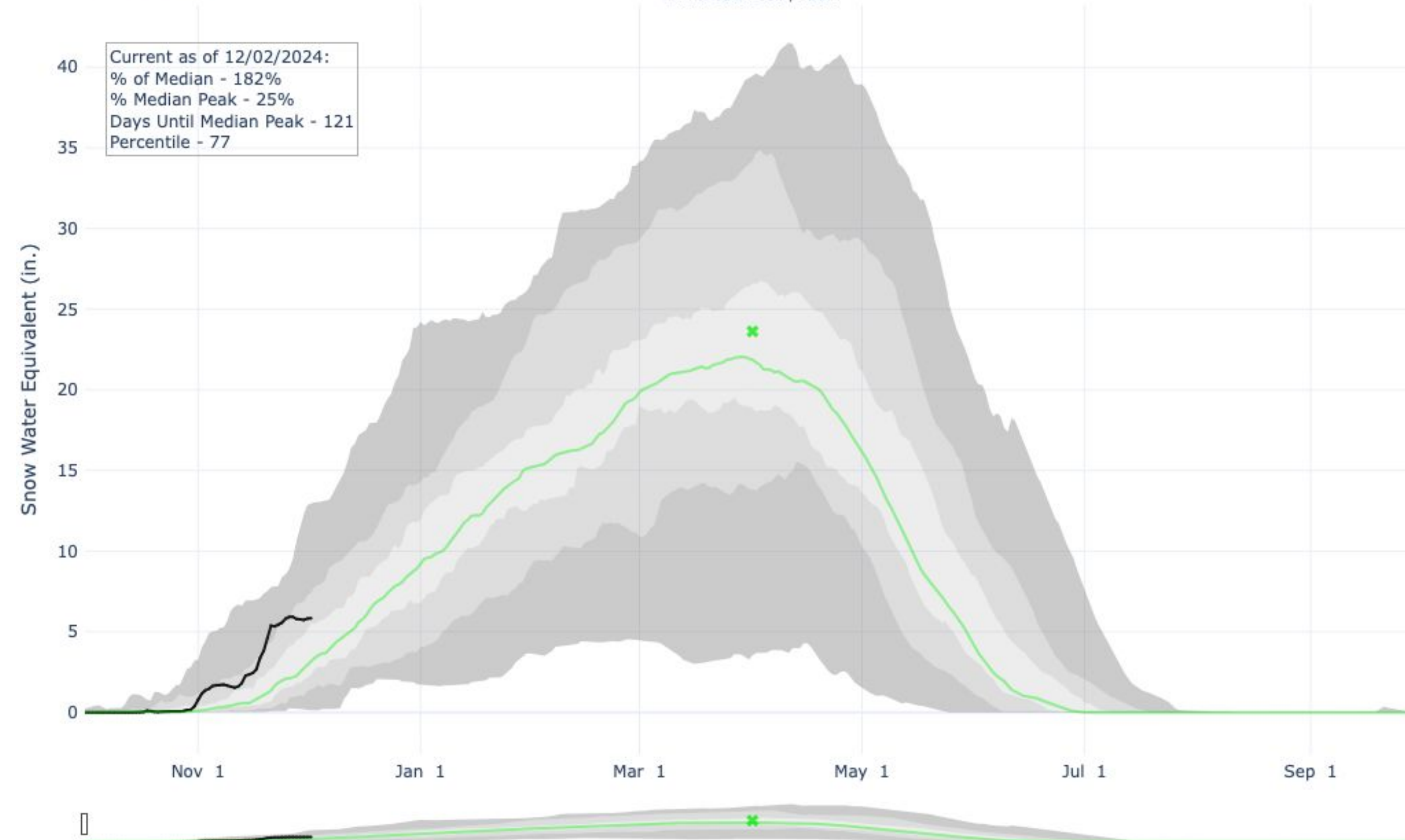
Reset Range

Link to data: CSV / JSON

Current as of 12/02/2024:
% of Median - 182%
% Median Peak - 25%
Days Until Median Peak - 121
Percentile - 77

Station List

- ✖ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 2025 (20 sites)



Shading breaks at the 10th, 30th, 50th, 70th, and 90th percentiles for the period of record.

The black line indicates the current water year, while the green line shows the median value, and the green "x" is the median peak SWE magnitude and date.





SNOTEL Snow Water Equivalent (SWE) - Yakima Watershed

SNOW WATER EQUIVALENT IN YAKIMA

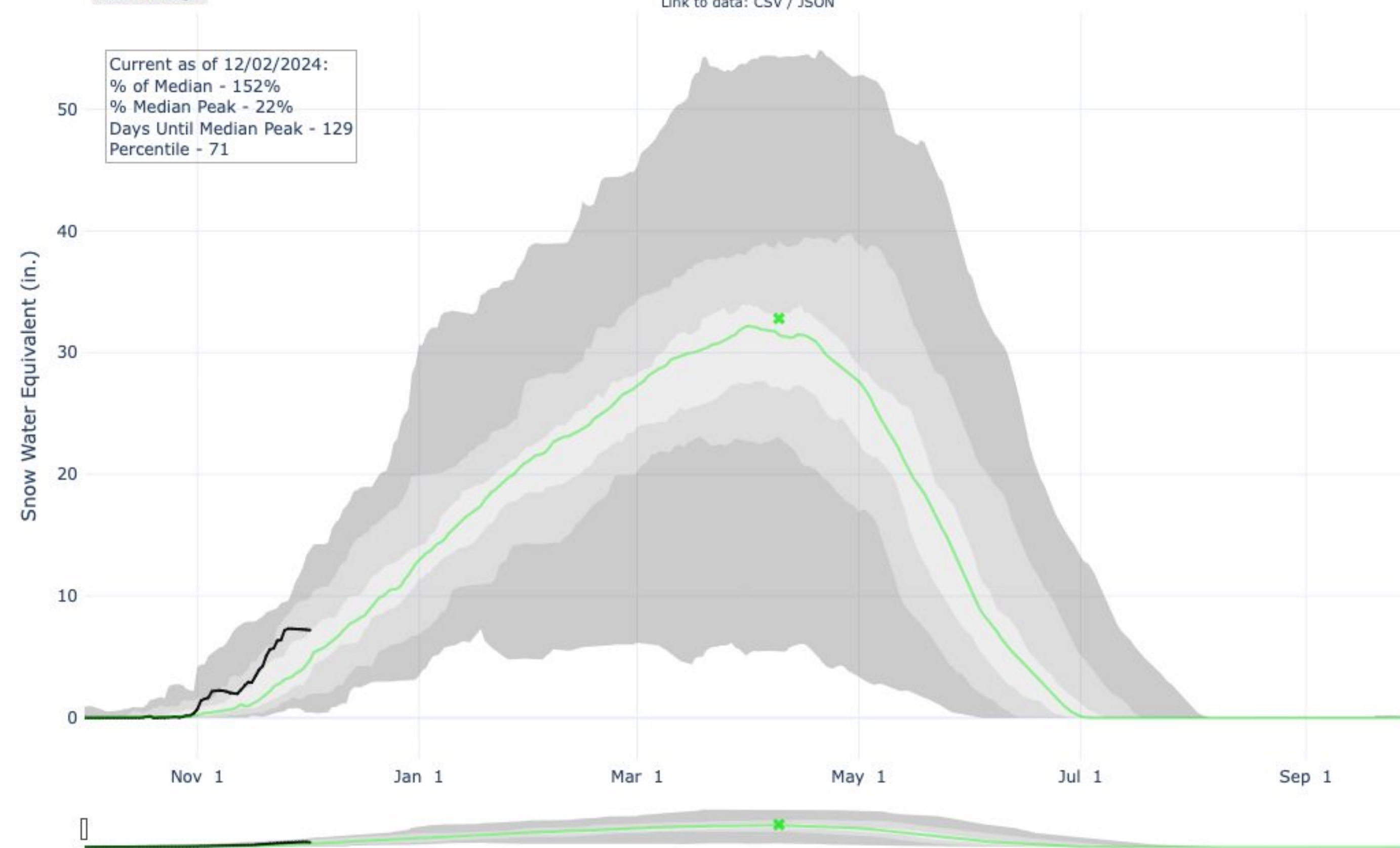
Reset Range

Link to data: CSV / JSON

Current as of 12/02/2024:
% of Median - 152%
% Median Peak - 22%
Days Until Median Peak - 129
Percentile - 71

Station List

- ✖ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 2025 (17 sites)



Shading breaks at the 10th, 30th, 50th, 70th, and 90th percentiles for the period of record.

The black line indicates the current water year, while the green line shows the median value, and the green "x" is the median peak SWE magnitude and date.





SNOTEL Snow Water Equivalent (SWE) - Deschutes Watershed

SNOW WATER EQUIVALENT IN DESCHUTES

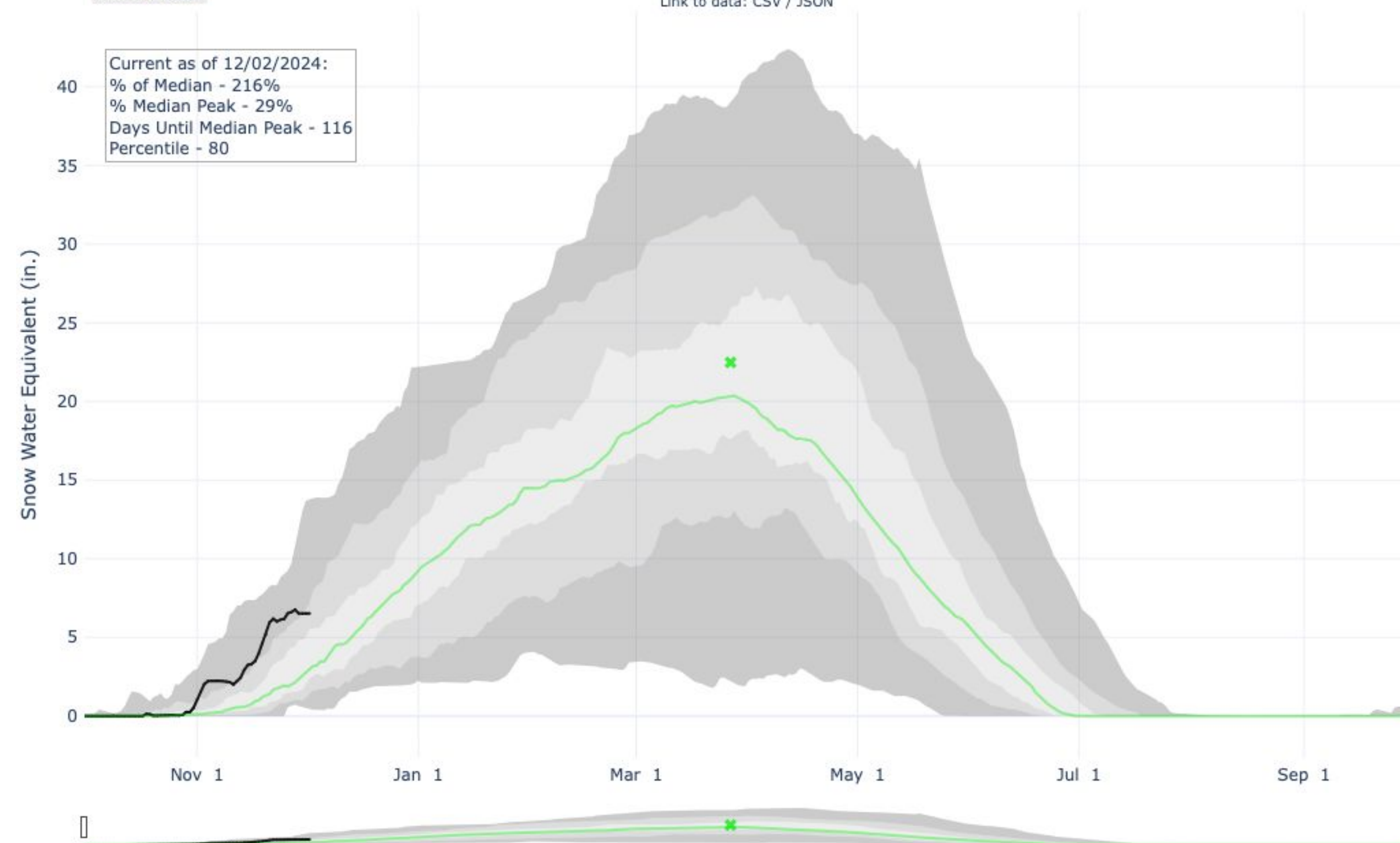
Reset Range

Link to data: CSV / JSON

Current as of 12/02/2024:
% of Median - 216%
% Median Peak - 29%
Days Until Median Peak - 116
Percentile - 80

Station List

- ✖ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 2025 (18 sites)



Shading breaks at the 10th, 30th, 50th, 70th, and 90th percentiles for the period of record.

The black line indicates the current water year, while the green line shows the median value, and the green "x" is the median peak SWE magnitude and date.





SNOTEL Snow Water Equivalent (SWE) - John Day Watershed

SNOW WATER EQUIVALENT IN JOHN DAY

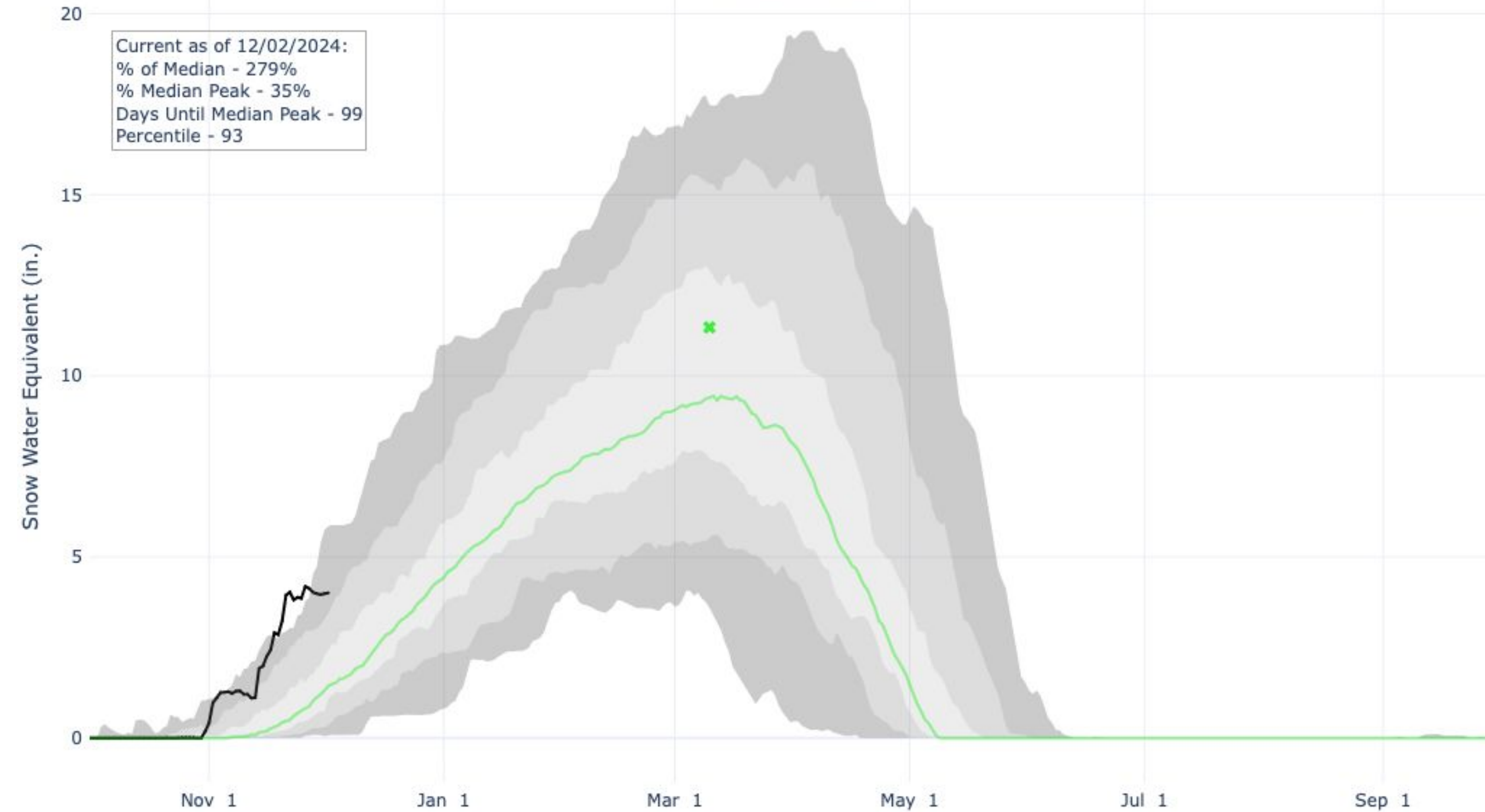
Reset Range

Link to data: CSV / JSON

Current as of 12/02/2024:
% of Median - 279%
% Median Peak - 35%
Days Until Median Peak - 99
Percentile - 93

Station List

- ✖ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 2025 (13 sites)



Shading breaks at the 10th, 30th, 50th, 70th, and 90th percentiles for the period of record.

The black line indicates the current water year, while the green line shows the median value, and the green "x" is the median peak SWE magnitude and date.





Summary

Weather Forecast Office
Pendleton, OR
Tuesday, January 7

- Mean (average) temperatures were predominantly near normal (relative to the 1991-2020 climate reference period) across the forecast area during November, except for the Columbia Basin which observed mostly above-normal temperatures.
- Near- to above-normal precipitation (relative to the 1991-2020 climate reference period) was observed during November, except for portions of central Oregon and the central Washington Cascades which observed below-normal precipitation.
- Drought conditions improved across portions of our forecast area.



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