

Month in Review - February 2024

Weather Forecast Office

Pendleton, OR

Sunday, March 10

Photo taken by NWS Pendleton staff at Wallowa Lake, Oregon



The Month in Review is a retrospective collection of climate statistics for NWS Pendleton's forecast area 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 - February 2024

Weather Forecast Office
Pendleton, OR
Sunday, March 10

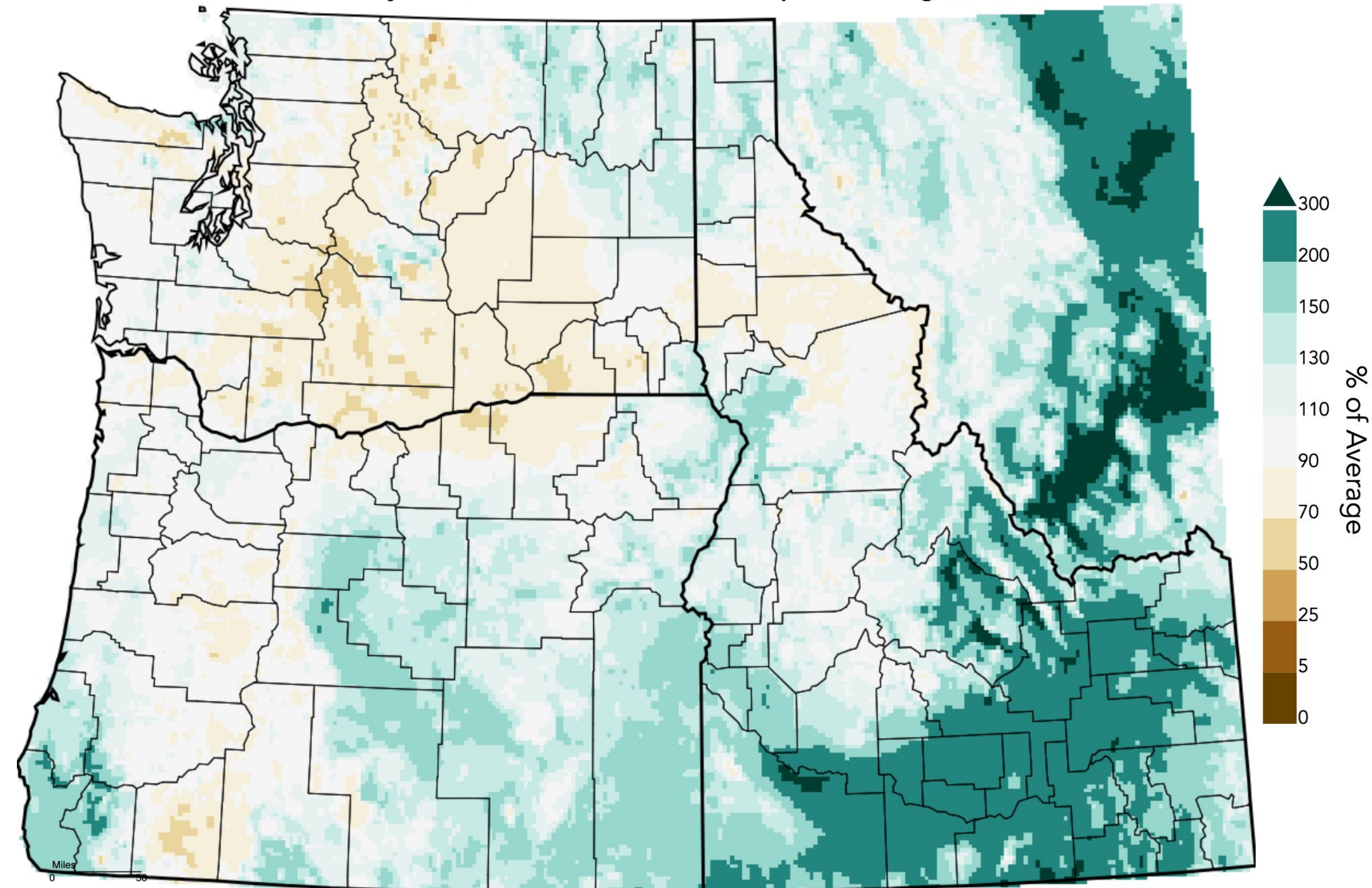
- Near- to above-normal temperatures area-wide during February.
- Near- to below-normal precipitation for the Columbia Basin, foothills of the Blue Mountains, and Cascades.
- Near- to above-normal precipitation for much of central and northeast Oregon.
- Snow water equivalent (SWE) increased through the month for all basins/watersheds in NWS Pendleton's forecast area.



Precipitation Anomaly - February 2024

Weather Forecast Office
Pendleton, OR
Sunday, March 10

Pacific Northwest - Precipitation
February 2024, Percent of 1991-2020 Computed Average(s)



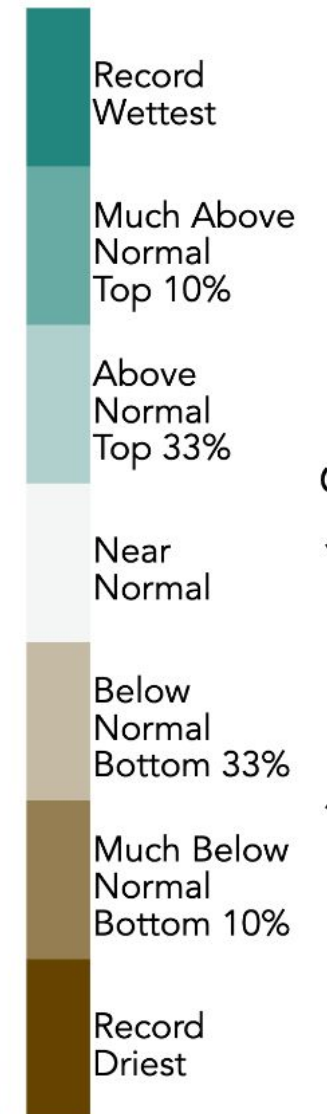
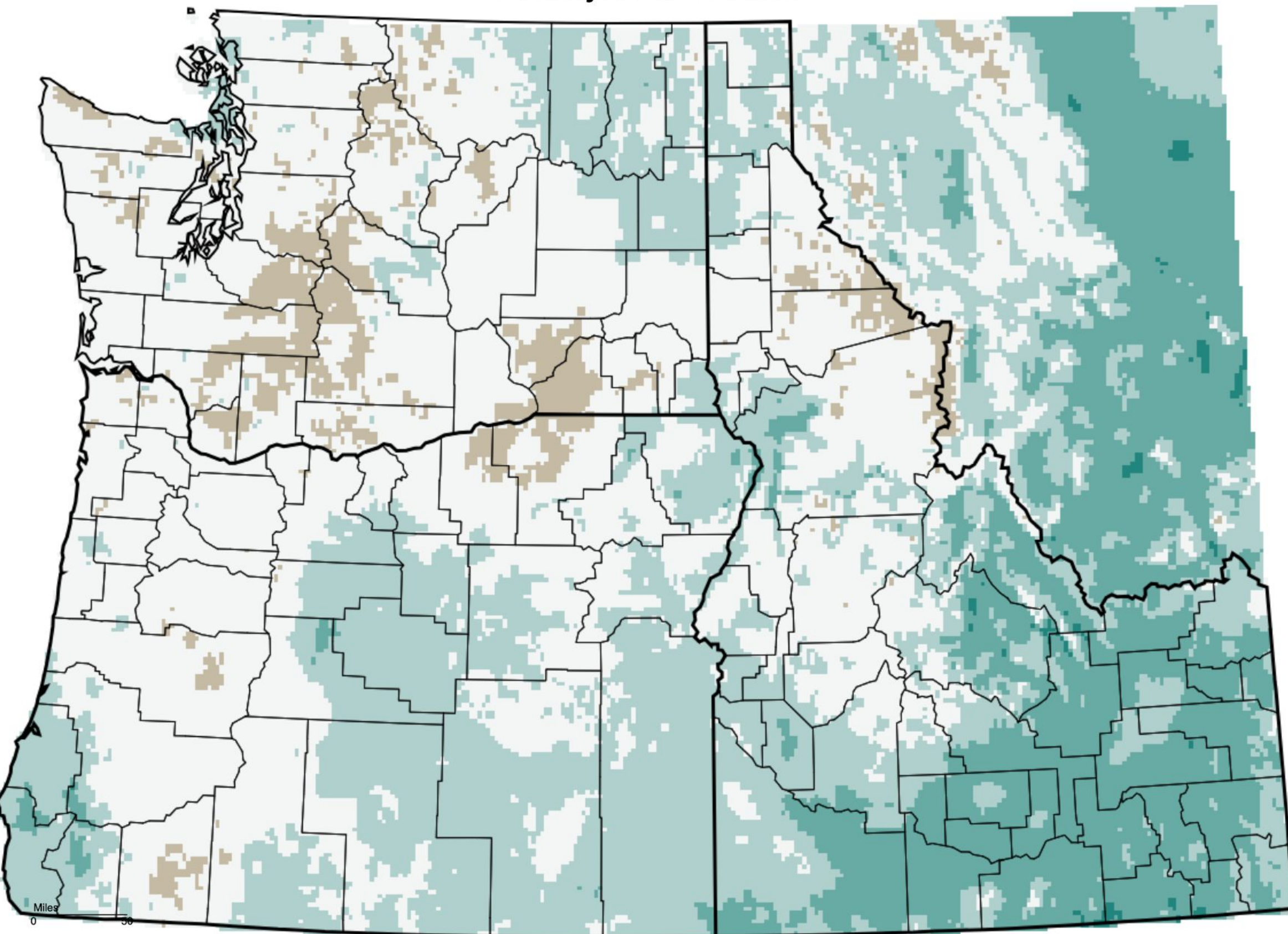
Near- to below-normal precipitation was observed for much of the Columbia Basin, foothills of the Blue Mountains, and Cascades, while central and northeast Oregon were generally near to above normal with the greatest departure from normal in the lower elevations of central Oregon.



Precipitation Percentiles - February 2024

Weather Forecast Office
Pendleton, OR
Sunday, March 10

Pacific Northwest - Precipitation
February 2024, Percentile



Rankings (1895-2024)

Near- to below-normal precipitation was observed for much of the Columbia Basin, foothills of the Blue Mountains, and Cascades, while central and northeast Oregon were generally near to above normal with the greatest departure from normal in the lower elevations of central Oregon.

Miles 0 50

WestWide Drought Tracker, WRCC, Climate Engine, Data Source: PRISM Prelim, created 05 Mar 2024

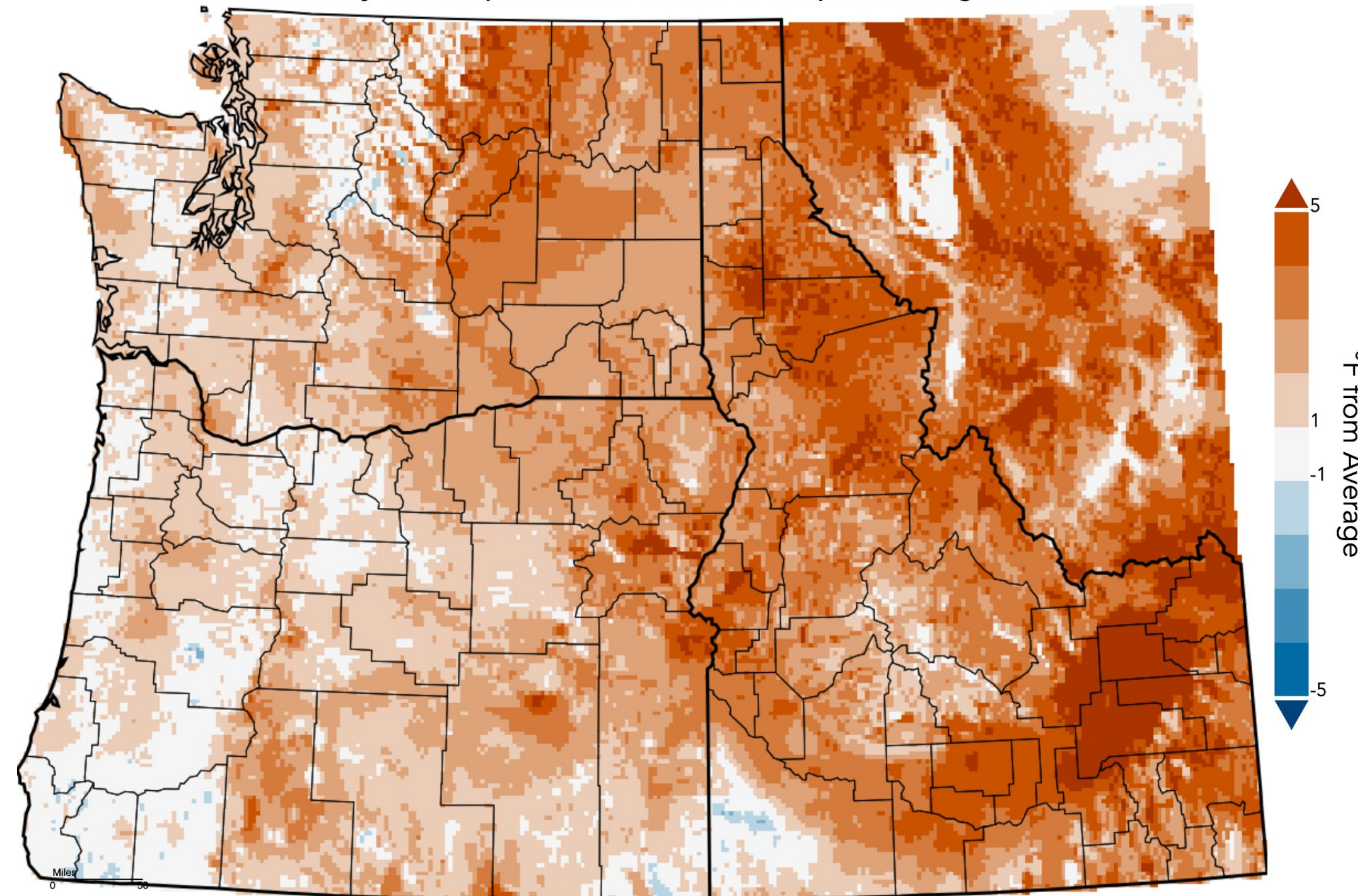


Temperature Anomaly - February 2024

Weather Forecast Office
Pendleton, OR
Sunday, March 10

Pacific Northwest - Mean Temperature
February 2024, Departure from 1991-2020 Computed Average(s)

Predominantly above-normal temperatures were recorded across central and northeast Oregon as well as central and southeast Washington during February.

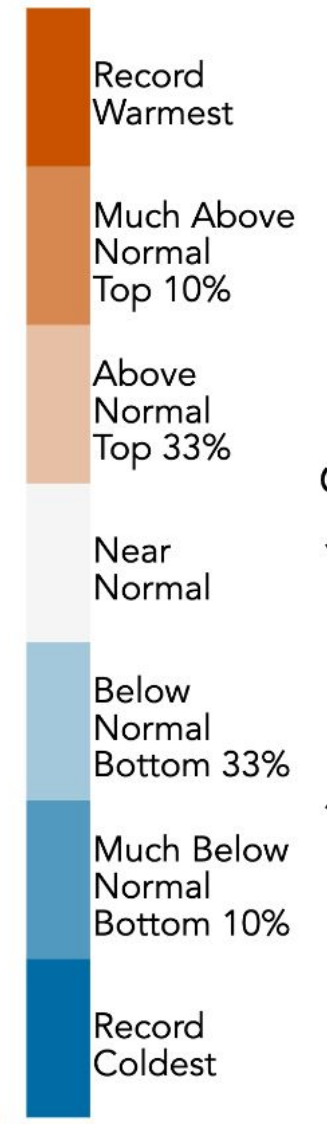
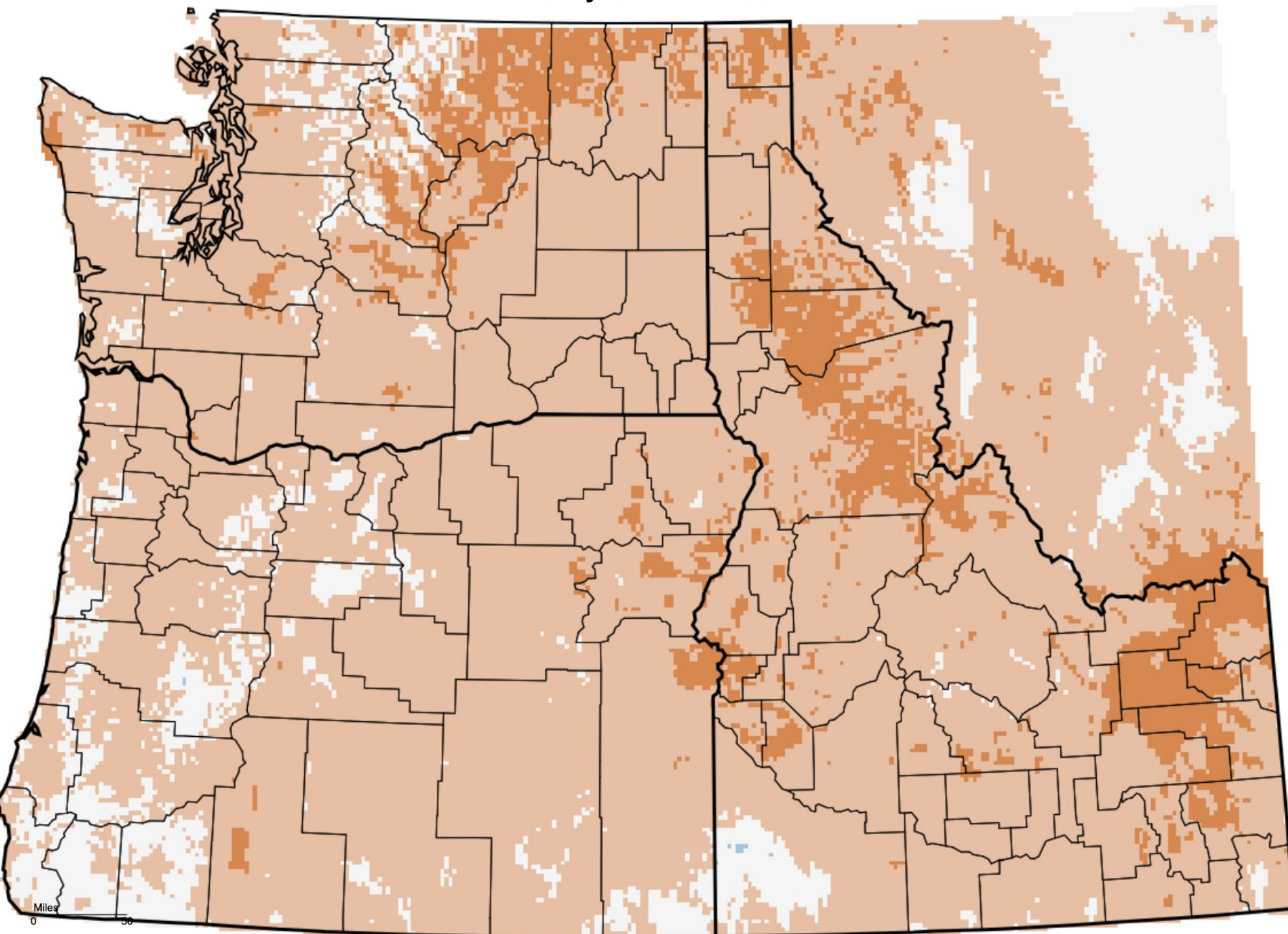




Temperature Percentiles - February 2024

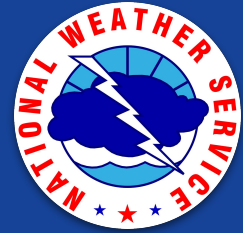
Weather Forecast Office
Pendleton, OR
Sunday, March 10

Pacific Northwest - Mean Temperature
February 2024, Percentile



Rankings (1895-2024)

Predominantly above-normal temperatures were recorded across central and northeast Oregon as well as central and southeast Washington during February.



Monthly Climate Statistics - Pendleton ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	49.8	46.4	3.4
Average Low Temperature (F)	33.7	29.6	4.1
Average Temperature (F)	41.8	38.0	3.8
Total Precipitation (inches)	0.93	1.19	-0.26
Total Snow (inches)	1.4	4.5	-3.1



Monthly Climate Statistics - Walla Walla ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	48.1	46.5	1.6
Average Low Temperature (F)	34.3	32.9	1.4
Average Temperature (F)	41.2	39.7	1.5
Total Precipitation (inches)	1.55	1.59	-0.04



Monthly Climate Statistics - The Dalles ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	50.0	48.4	1.6
Average Low Temperature (F)	34.1	32.1	2.0
Average Temperature (F)	42.1	40.2	1.9
Total Precipitation (inches)	0.98	1.58	-0.60



Monthly Climate Statistics - Ellensburg ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	46.6	44.2	2.4
Average Low Temperature (F)	30.4	26.8	3.6
Average Temperature (F)	38.5	35.5	3.0
Total Precipitation (inches)	0.44	0.78	-0.34



Monthly Climate Statistics - Hermiston ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	51.7	49.4	2.3
Average Low Temperature (F)	32.6	29.2	3.4
Average Temperature (F)	42.1	39.3	2.8
Total Precipitation (inches)	0.65	0.86	-0.21



Monthly Climate Statistics - Meacham ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	40.2	39.9	0.3
Average Low Temperature (F)	24.3	21.5	2.8
Average Temperature (F)	32.2	30.7	1.5
Total Precipitation (inches)	3.61	3.59	0.02



Monthly Climate Statistics - Pasco ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

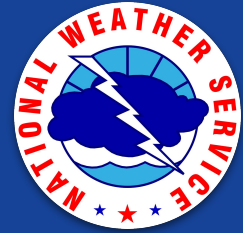
	Observed	Normal	Departure
Average High Temperature (F)	51.2	48.6	2.6
Average Low Temperature (F)	33.1	28.2	4.9
Average Temperature (F)	42.2	38.4	3.8
Total Precipitation (inches)	0.47	0.63	-0.16



Monthly Climate Statistics - Redmond ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

	Observed	Normal	Departure
Average High Temperature (F)	48.0	48.0	0.0
Average Low Temperature (F)	27.8	25.3	2.5
Average Temperature (F)	37.9	36.6	1.3
Total Precipitation (inches)	1.67	0.66	1.01



Monthly Climate Statistics - Yakima ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

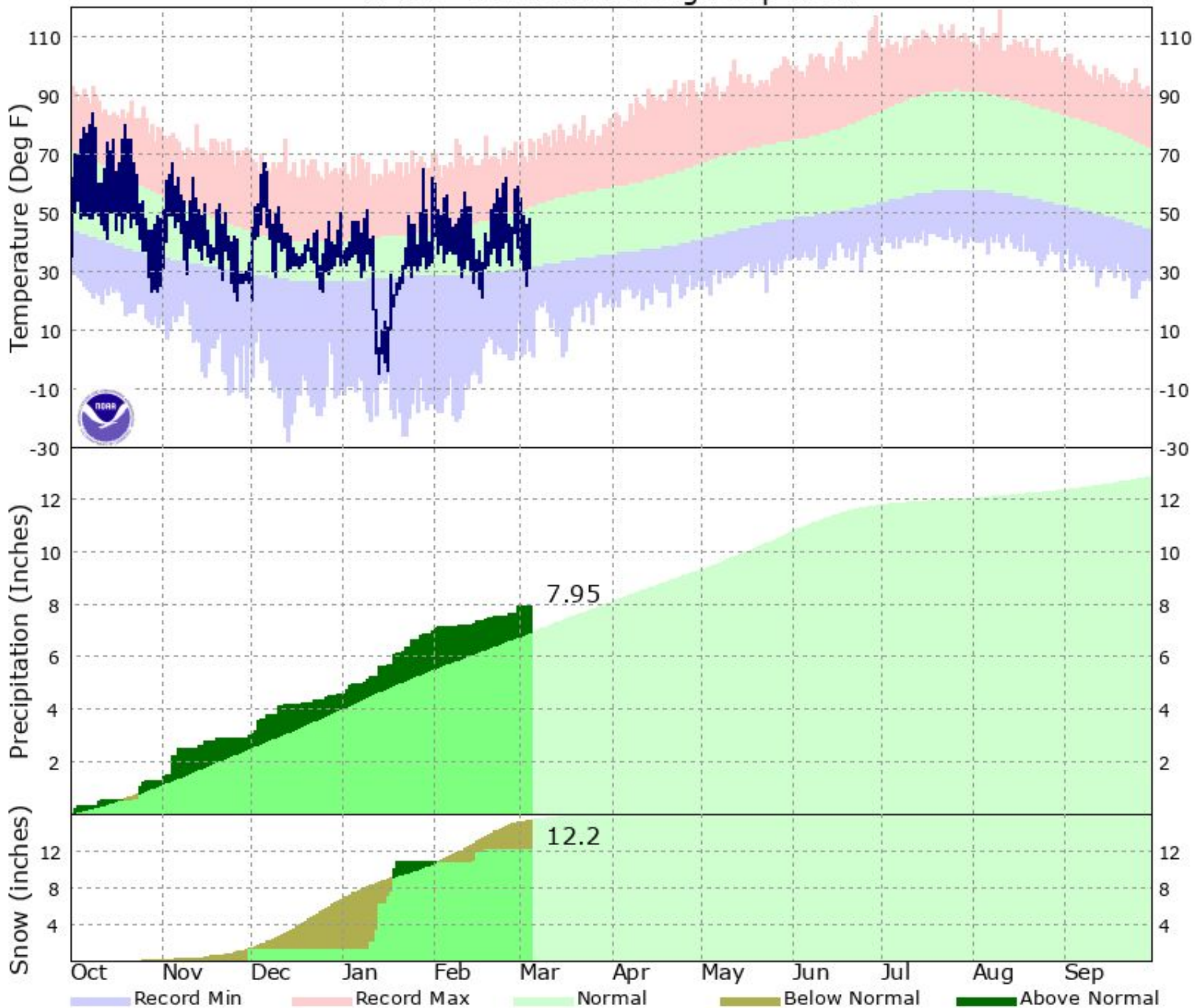
	Observed	Normal	Departure
Average High Temperature (F)	48.8	47.2	1.6
Average Low Temperature (F)	30.6	26.1	4.5
Average Temperature (F)	39.7	36.6	3.1
Total Precipitation (inches)	0.52	0.81	-0.29



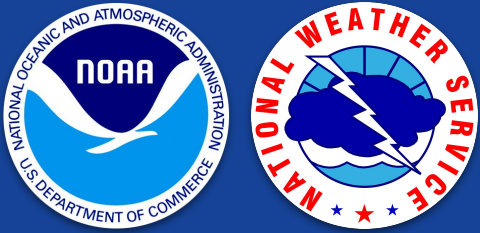
Water Year Climate Graphs - Pendleton ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KPDT - Oct 2023 Through Sep 2024



So far this water year, Pendleton has observed slightly above-normal precipitation and slightly below-normal snowfall.

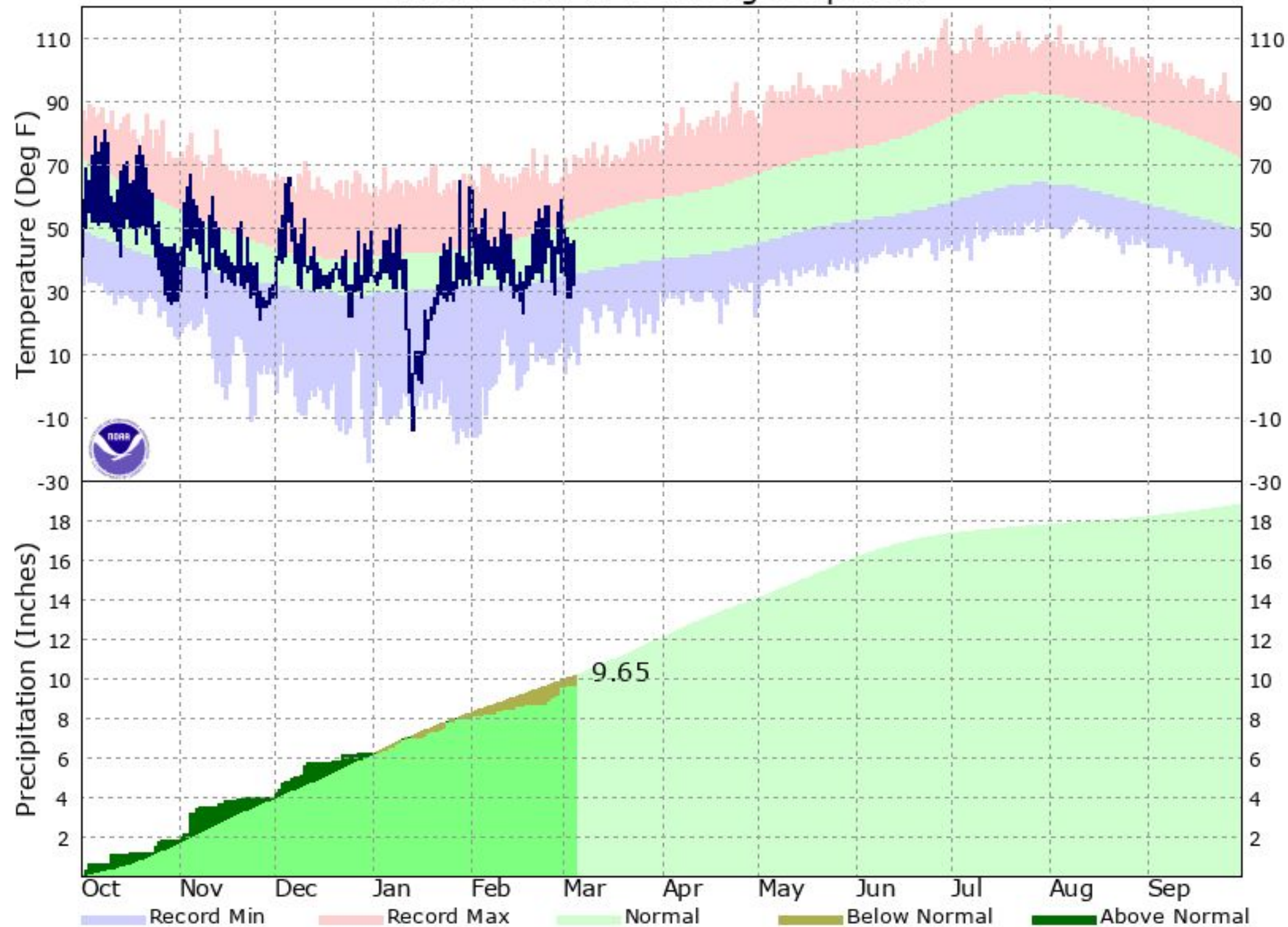


Water Year Climate Graphs - Walla Walla ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KALW - Oct 2023 Through Sep 2024

So far this water year, Walla Walla has received slightly below-normal precipitation.



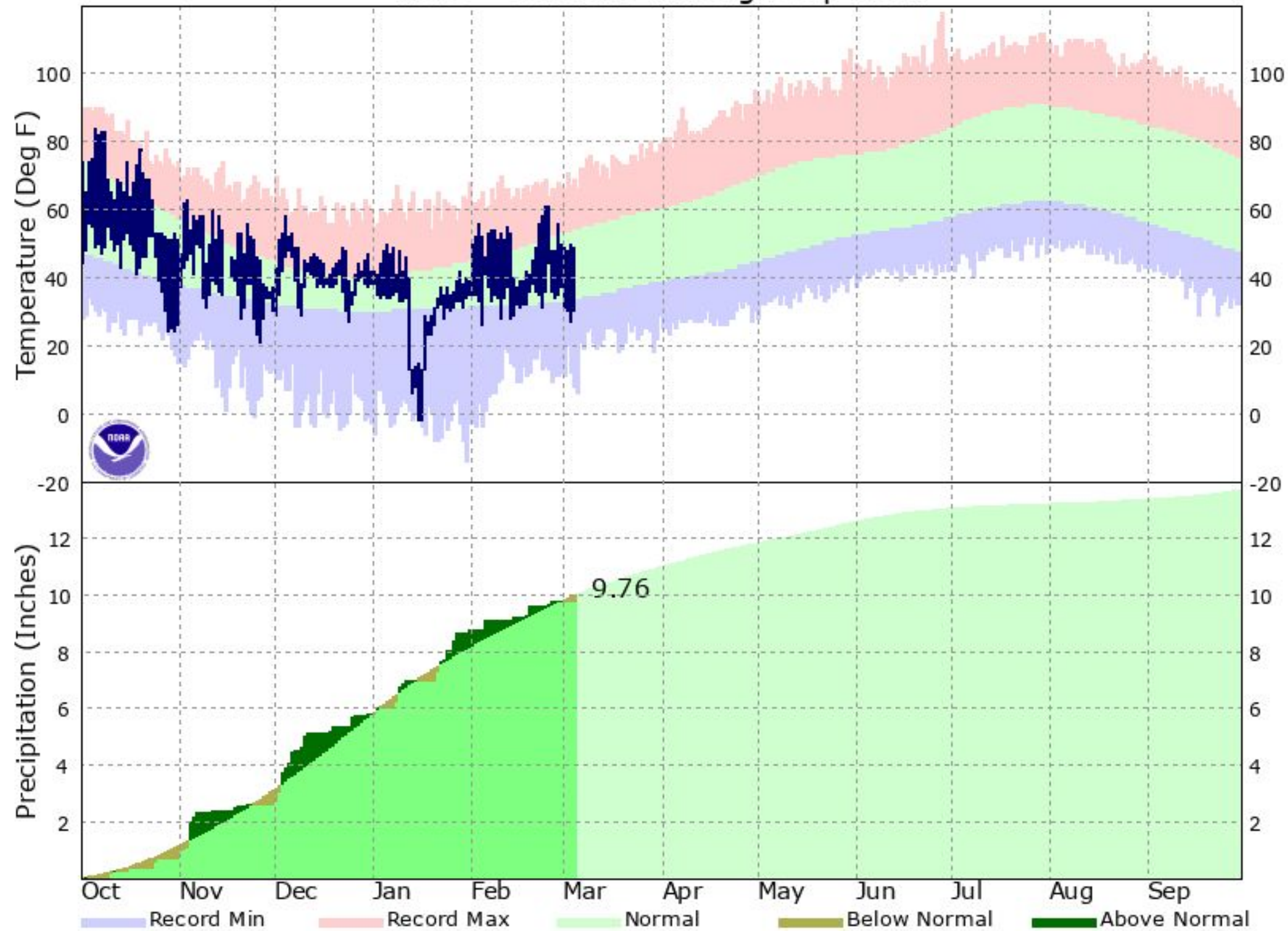


Water Year Climate Graphs - The Dalles ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KDLS - Oct 2023 Through Sep 2024

So far this water year, The Dalles has recorded near-normal precipitation.



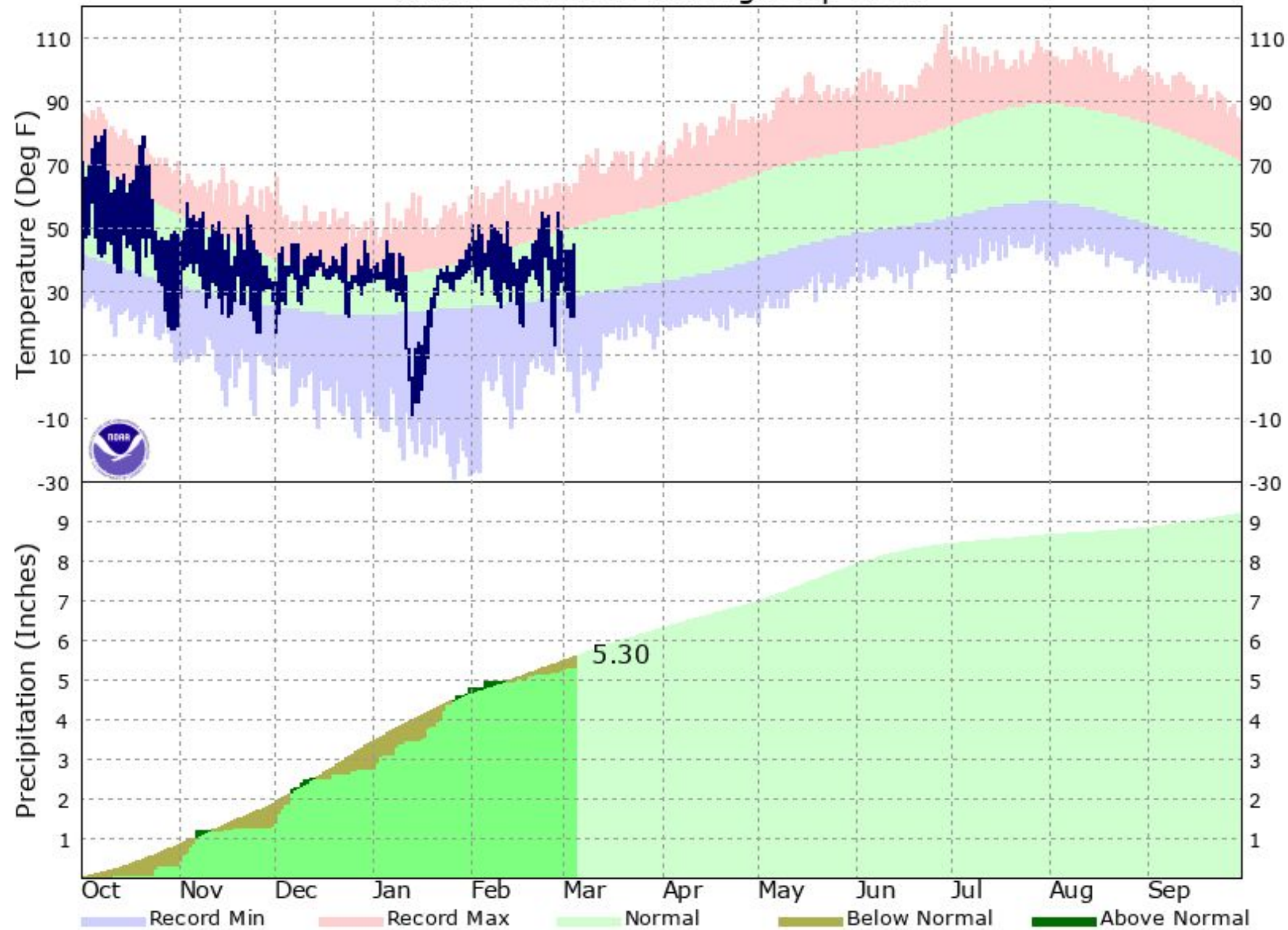


Water Year Climate Graphs - Ellensburg ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KELN - Oct 2023 Through Sep 2024

So far this water year, Ellensburg has observed near-normal precipitation.



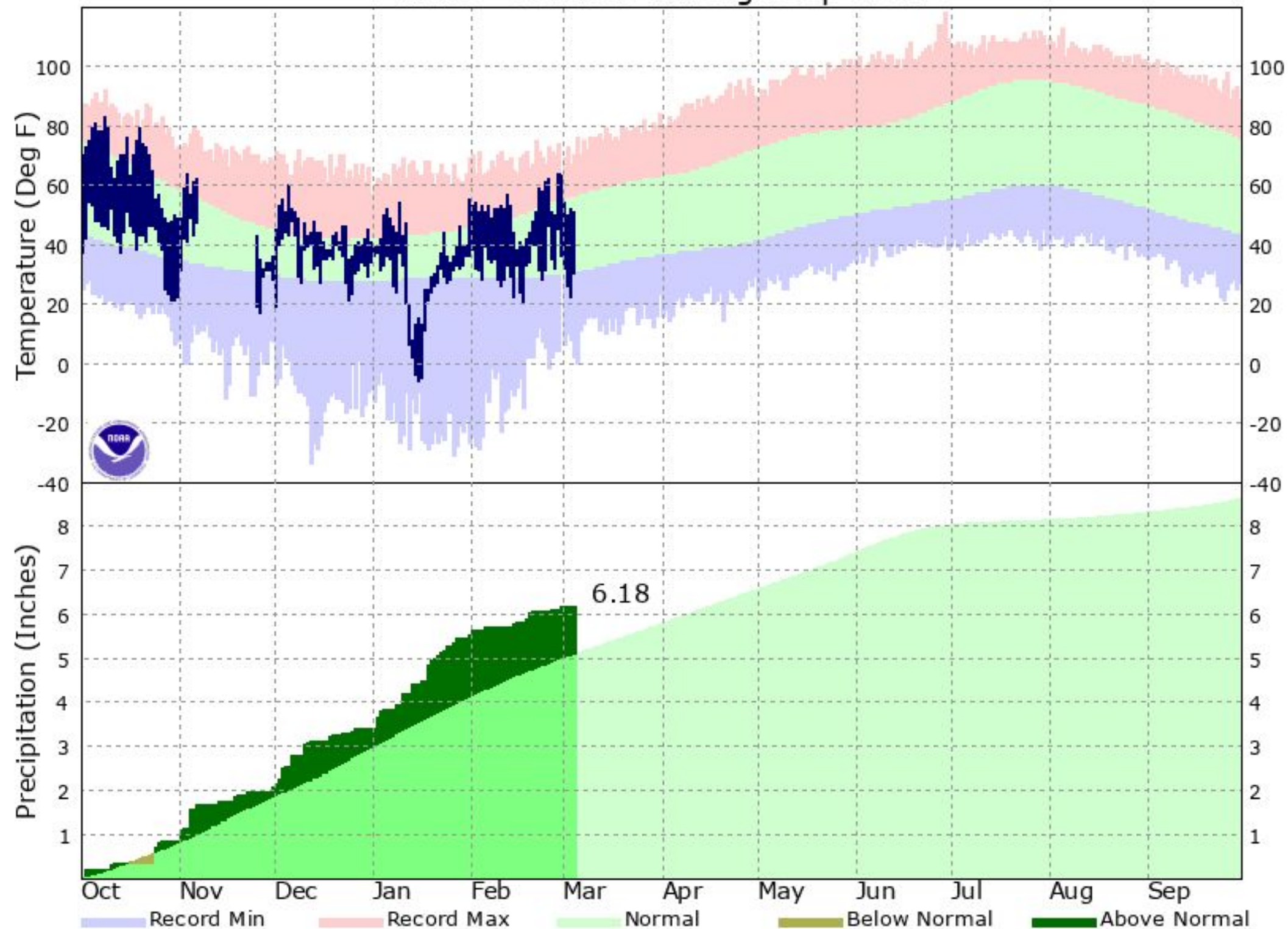


Water Year Climate Graphs - Hermiston ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KHRI - Oct 2023 Through Sep 2024

So far this water year, Hermiston has recorded above-normal precipitation.



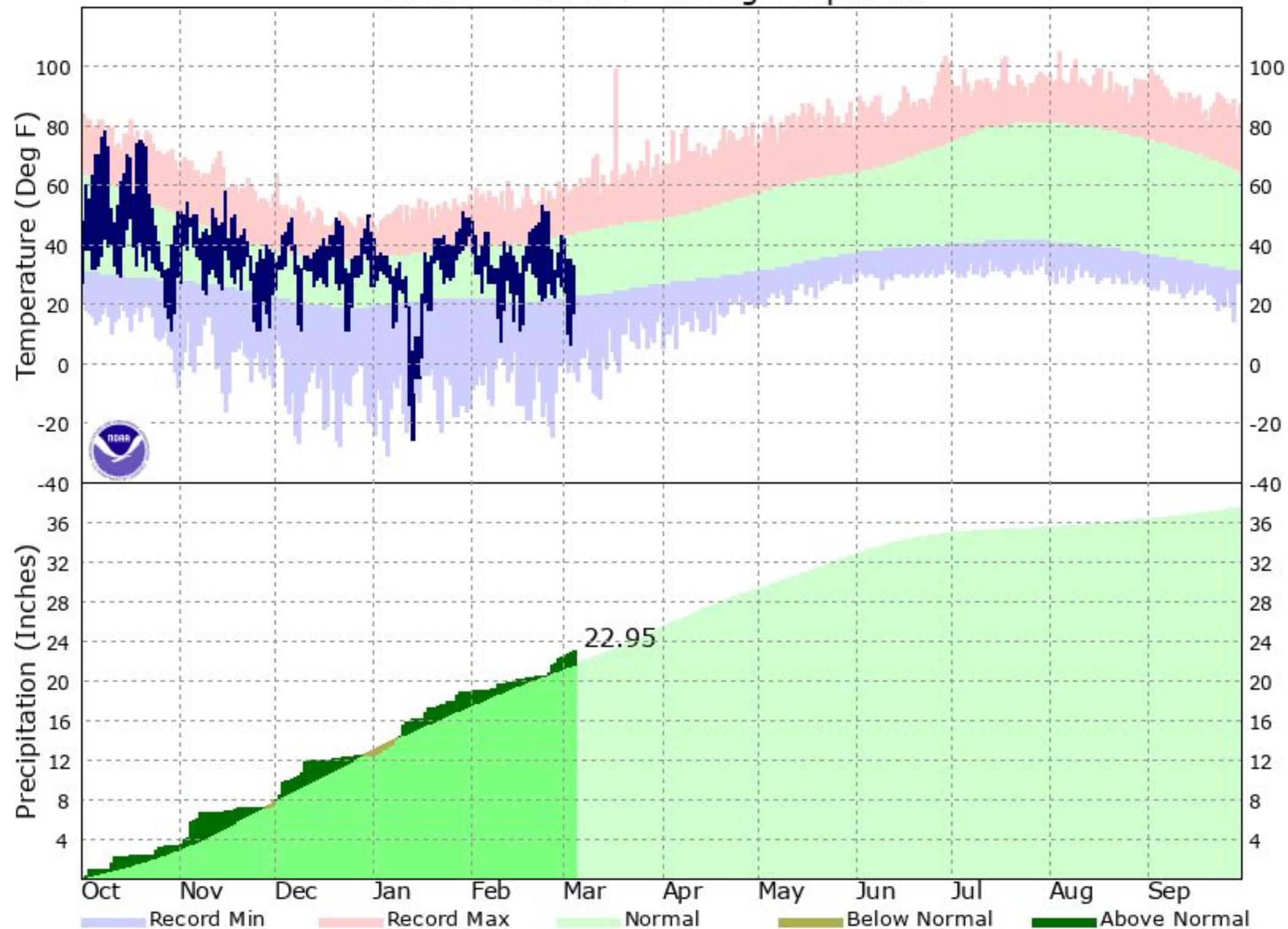


Water Year Climate Graphs - Meacham ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KMEH - Oct 2023 Through Sep 2024

So far this water year, Meacham has received near-normal precipitation.

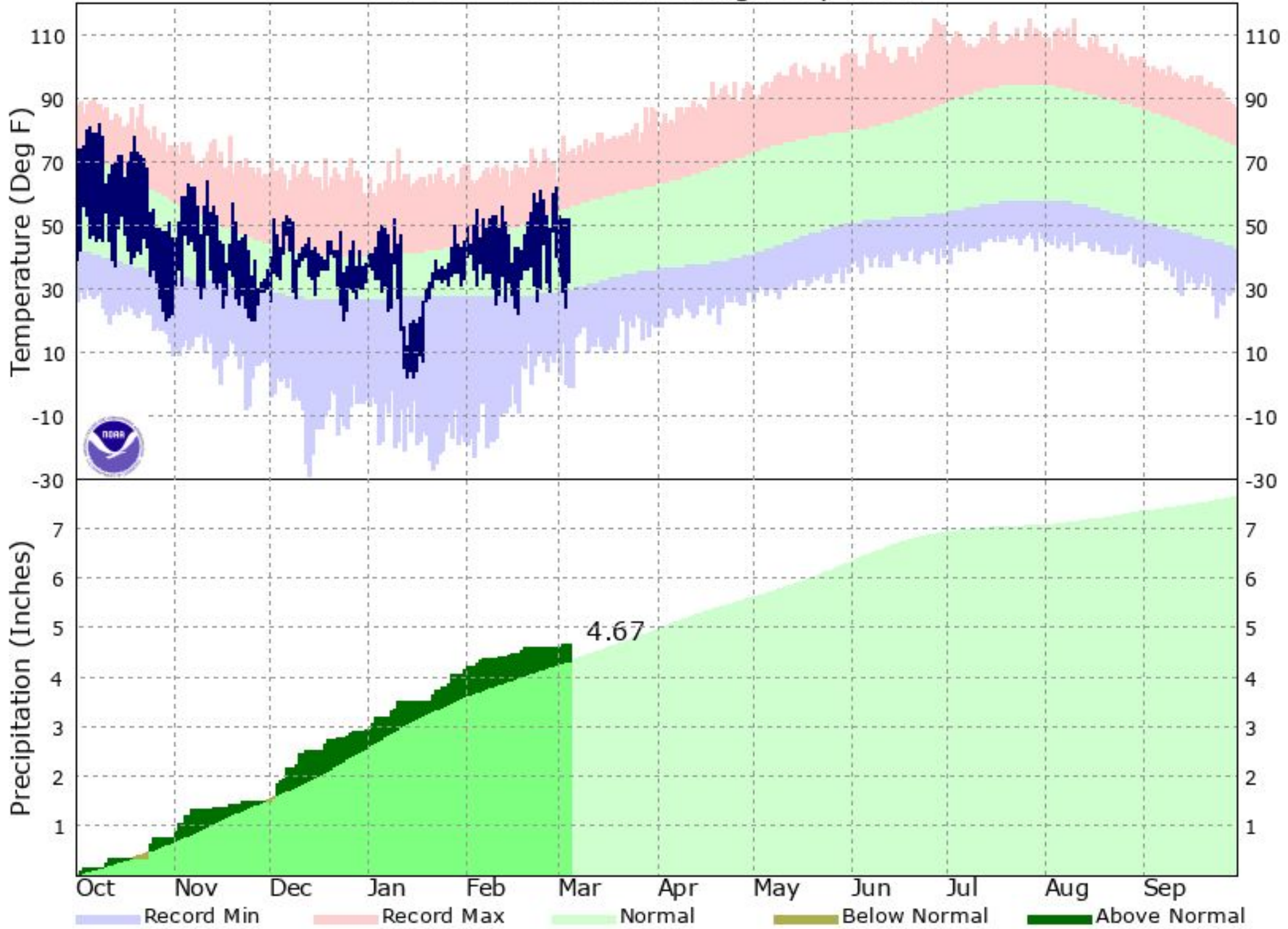




Water Year Climate Graphs - Pasco ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KPSC - Oct 2023 Through Sep 2024



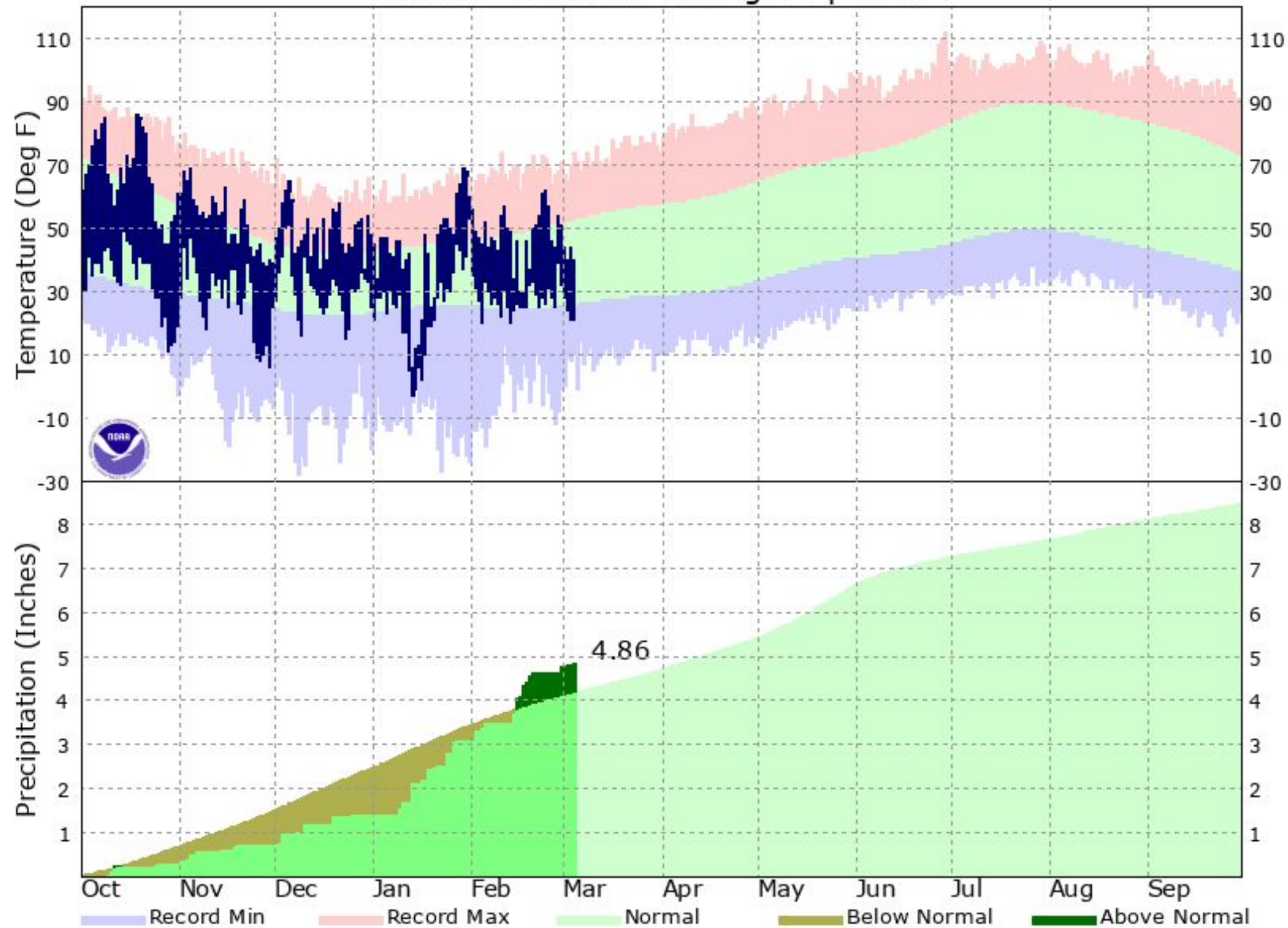
So far this water year, Pasco has observed slightly above-normal precipitation.



Water Year Climate Graphs - Redmond ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KRDM - Oct 2023 Through Sep 2024



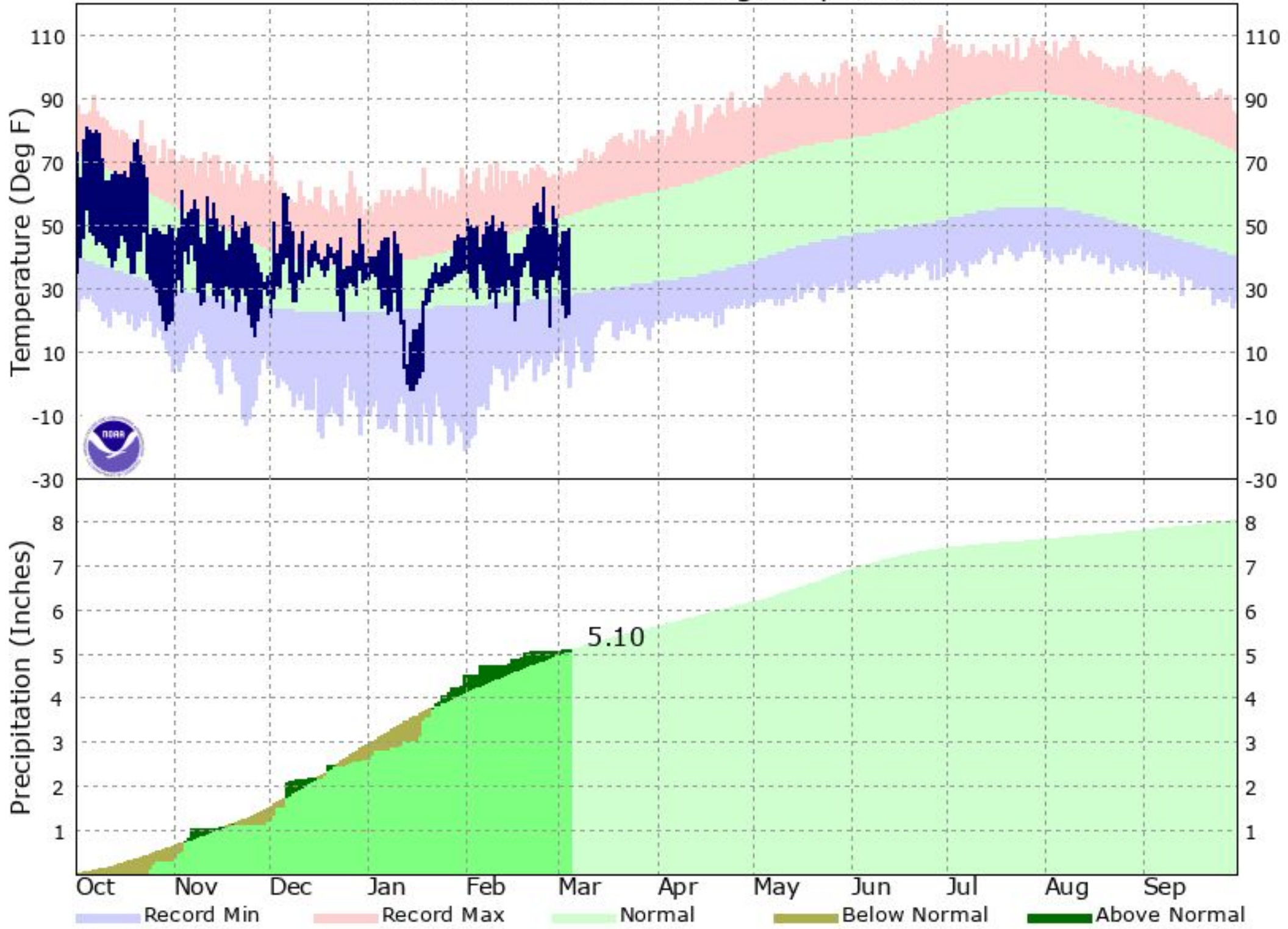
So far this water year, primarily due to a wet January, February, and early March, Redmond has recorded above-normal precipitation.



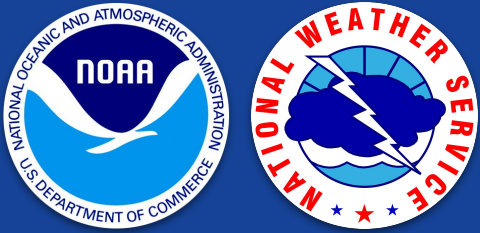
Water Year Climate Graphs - Yakima ASOS

Weather Forecast Office
Pendleton, OR
Sunday, March 10

KYKM - Oct 2023 Through Sep 2024



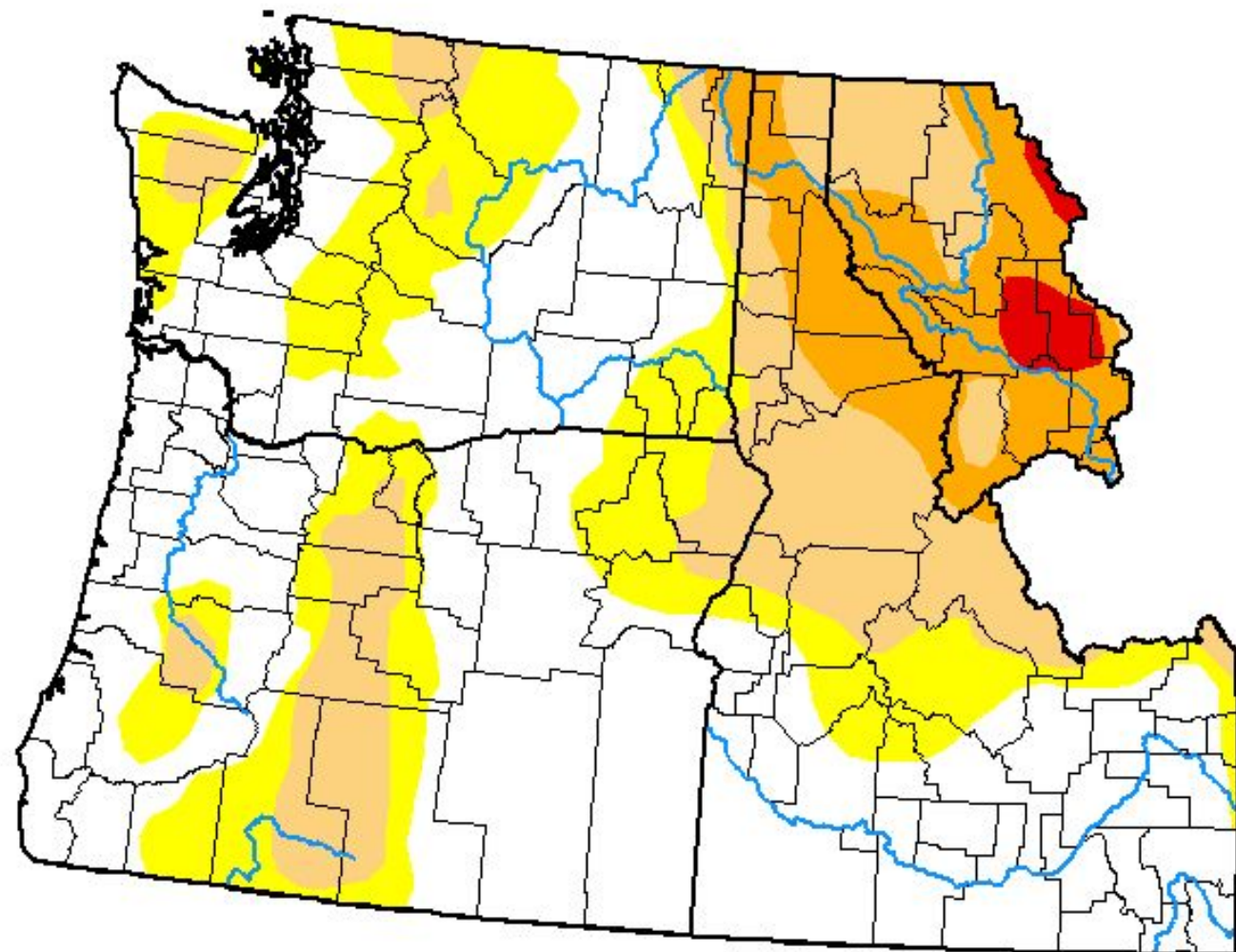
So far this water year, Yakima has recorded near-normal precipitation.



Drought Status: Current Conditions

Weather Forecast Office
Pendleton, OR
Sunday, March 10

U.S. Drought Monitor Pacific Northwest DEWS



February 27, 2024

(Released Thursday, Feb. 29, 2024)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	51.91	48.09	27.71	10.09	1.10	0.00
Last Week 02-20-2024	52.91	47.09	26.71	10.09	0.56	0.00
3 Months Ago 11-28-2023	41.22	58.78	36.27	13.93	0.00	0.00
Start of Calendar Year 01-02-2024	44.06	55.94	26.37	4.48	0.00	0.00
Start of Water Year 09-26-2023	34.73	65.27	50.11	28.69	7.48	0.00
One Year Ago 02-28-2023	15.60	84.40	59.11	18.83	5.14	0.50

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:

Richard Heim
NCEI/NOAA

D4 (Exceptional Drought): None.

D3 (Extreme Drought): None.

D2 (Severe Drought): None.

D1 (Moderate Drought): Portions of Wallowa, Union, Sherman, Wasco, Jefferson, Deschutes, and Crook counties.

D0 (Abnormally Dry): Portions of Umatilla, Union, Wallowa, Grant, Wasco, Sherman, Gilliam, Jefferson, Deschutes, Crook, Wheeler, Klickitat, Yakima, Kittitas, Walla Walla, and Columbia counties.

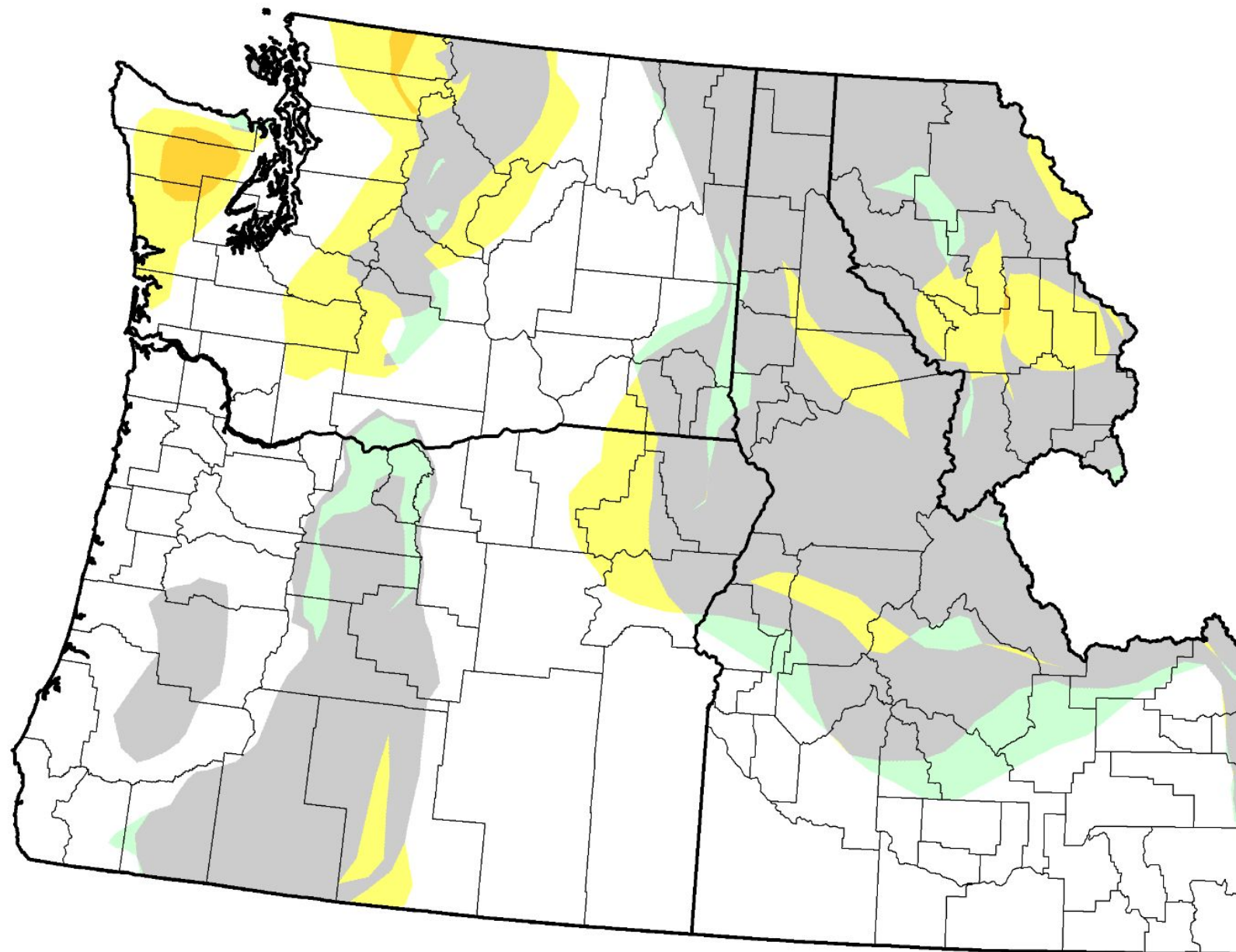


droughtmonitor.unl.edu



Drought Status: 4-Week Change

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

February 27, 2024
compared to
January 30, 2024

droughtmonitor.unl.edu

Improved: Portions of Yakima, Kittitas, Klickitat, Wasco, Sherman, Gilliam, Jefferson, Deschutes, and Wallowa counties.

Degraded: Portions of Umatilla, Union, Grant, Walla Walla, Yakima, Kittitas, and Columbia counties.

No change: Much of Columbia, Wallowa, Deschutes, Crook, Jefferson, and Wasco counties. Portions of Yakima, Kittitas, and Union counties.

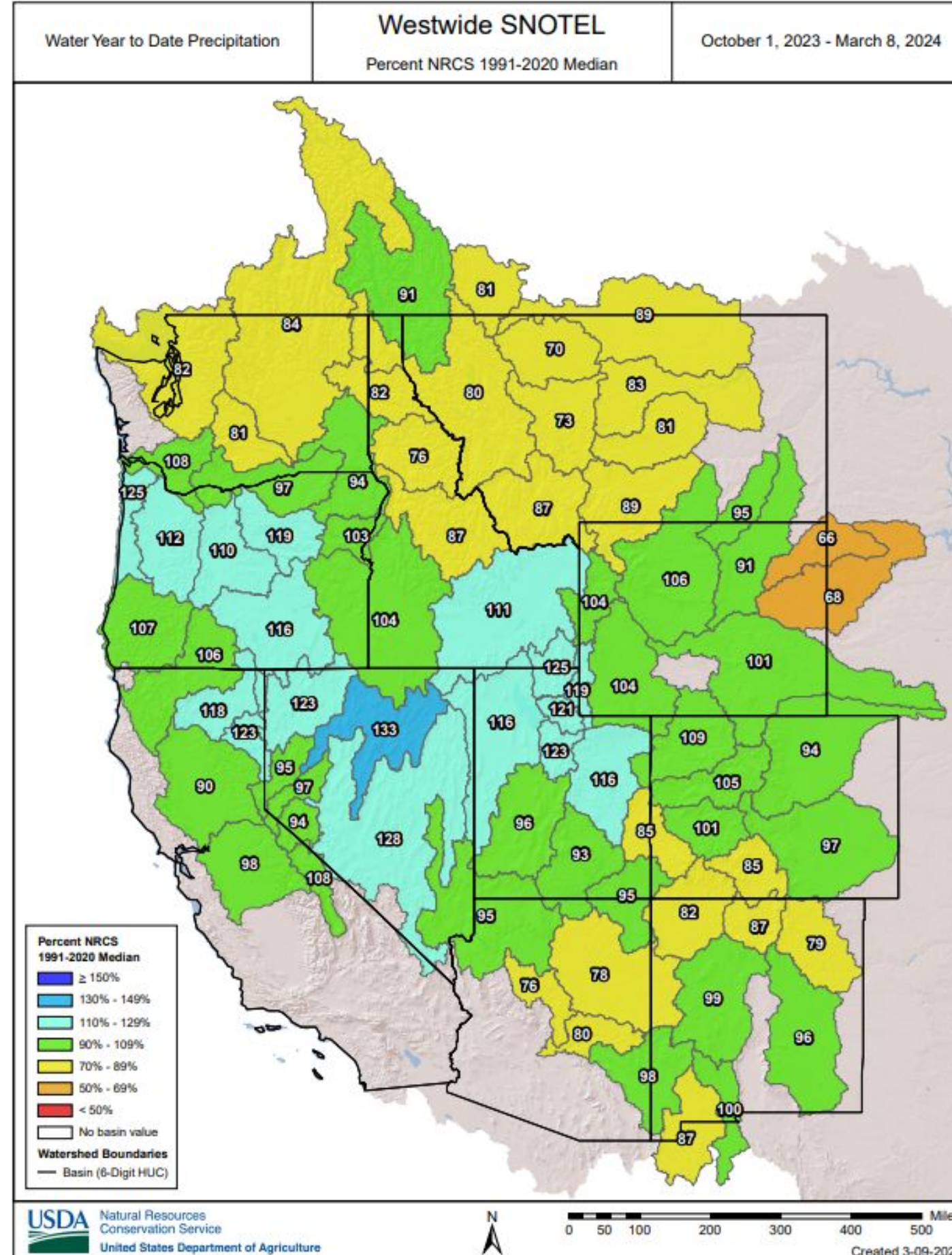
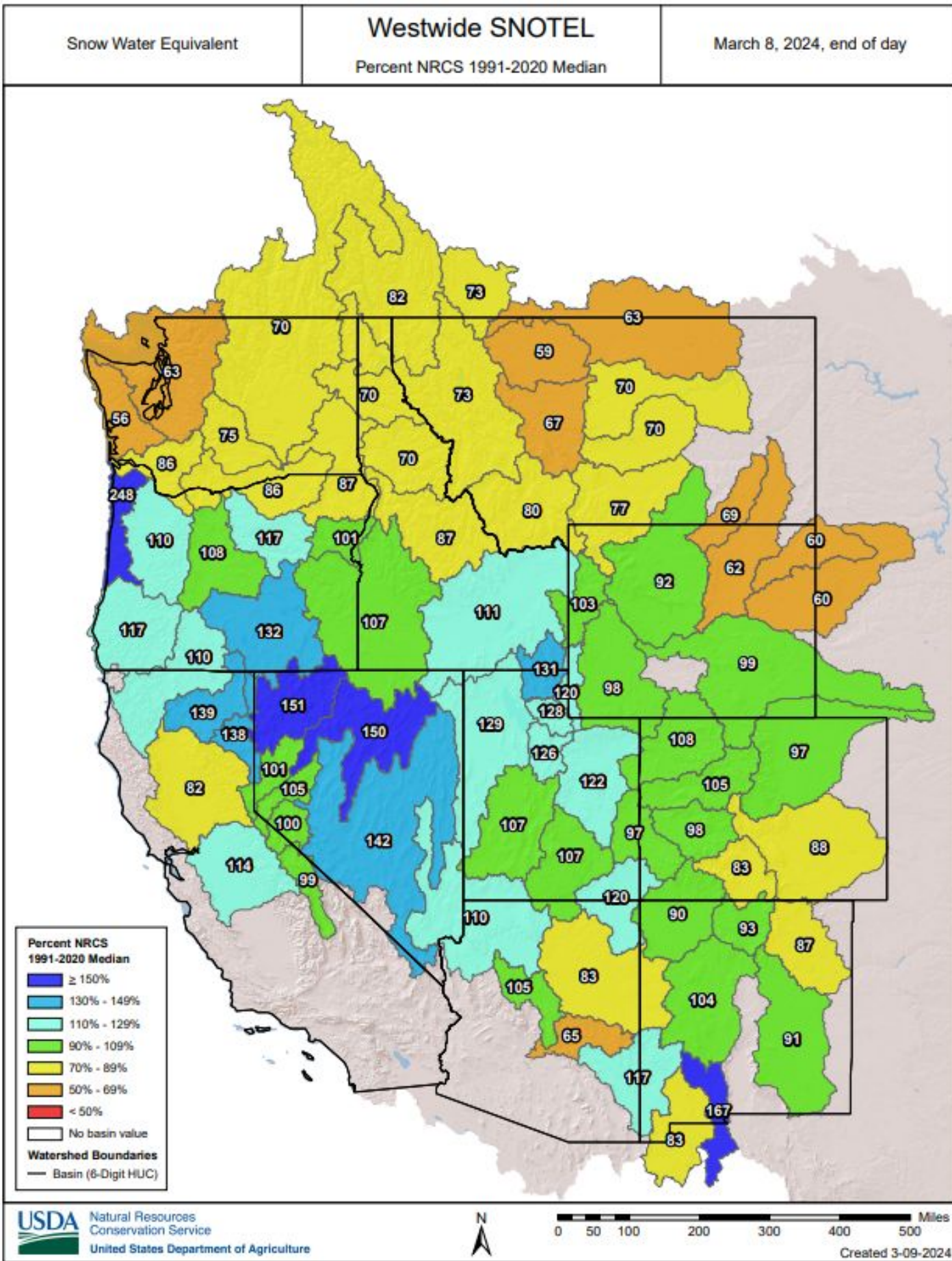


SNOTEL Snow Water Equivalent (SWE) and Water Year to Date Precipitation - Basin/Watershed Map

Weather Forecast Office
Pendleton, OR
Sunday, March 10

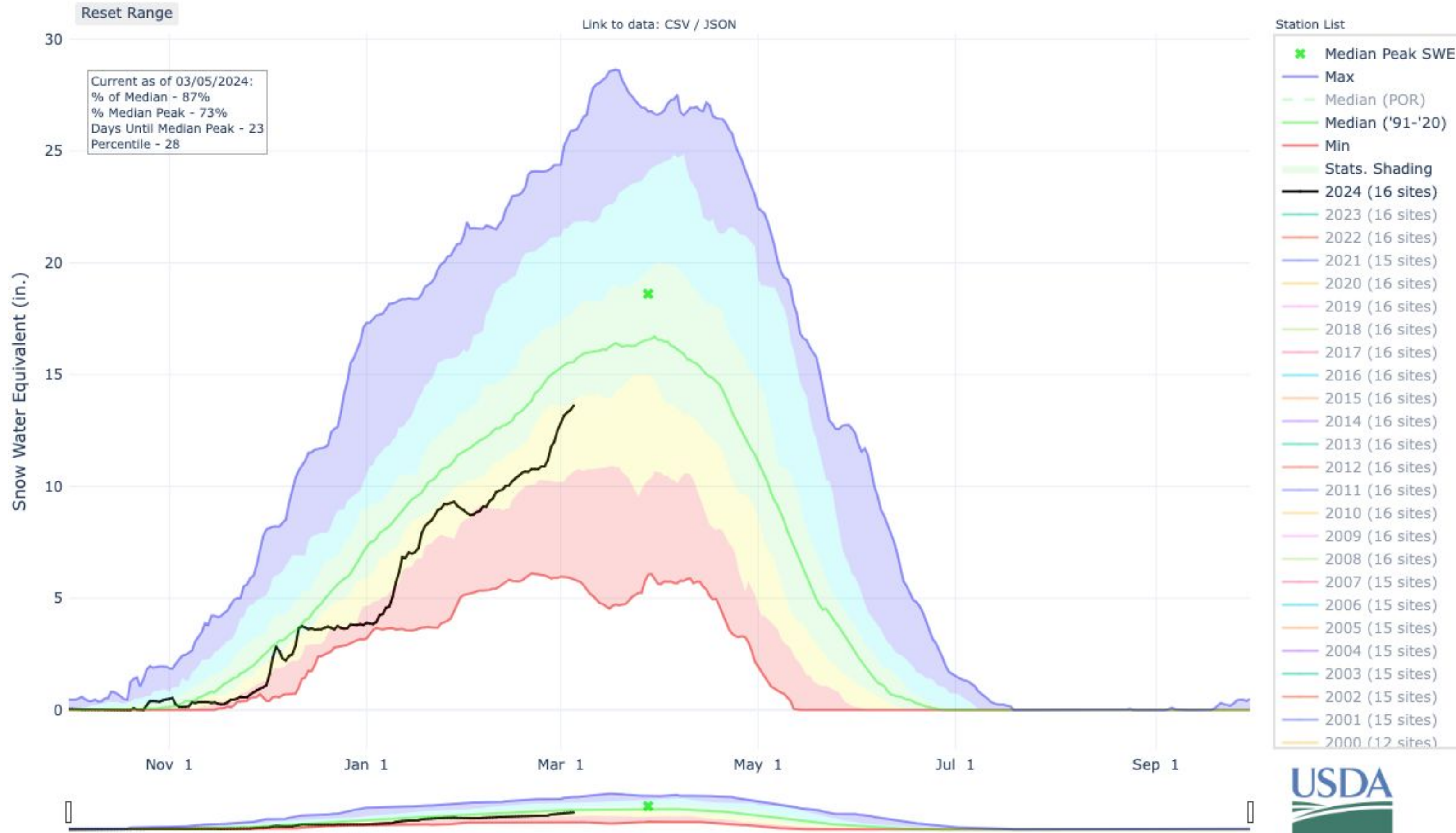
Basin-wide snow water equivalent (SWE) percent of median is shown on the left.

Precipitation percent of median for the water year to date is shown on the right.





SNOTEL Snow Water Equivalent (SWE) - Lower Snake Watershed



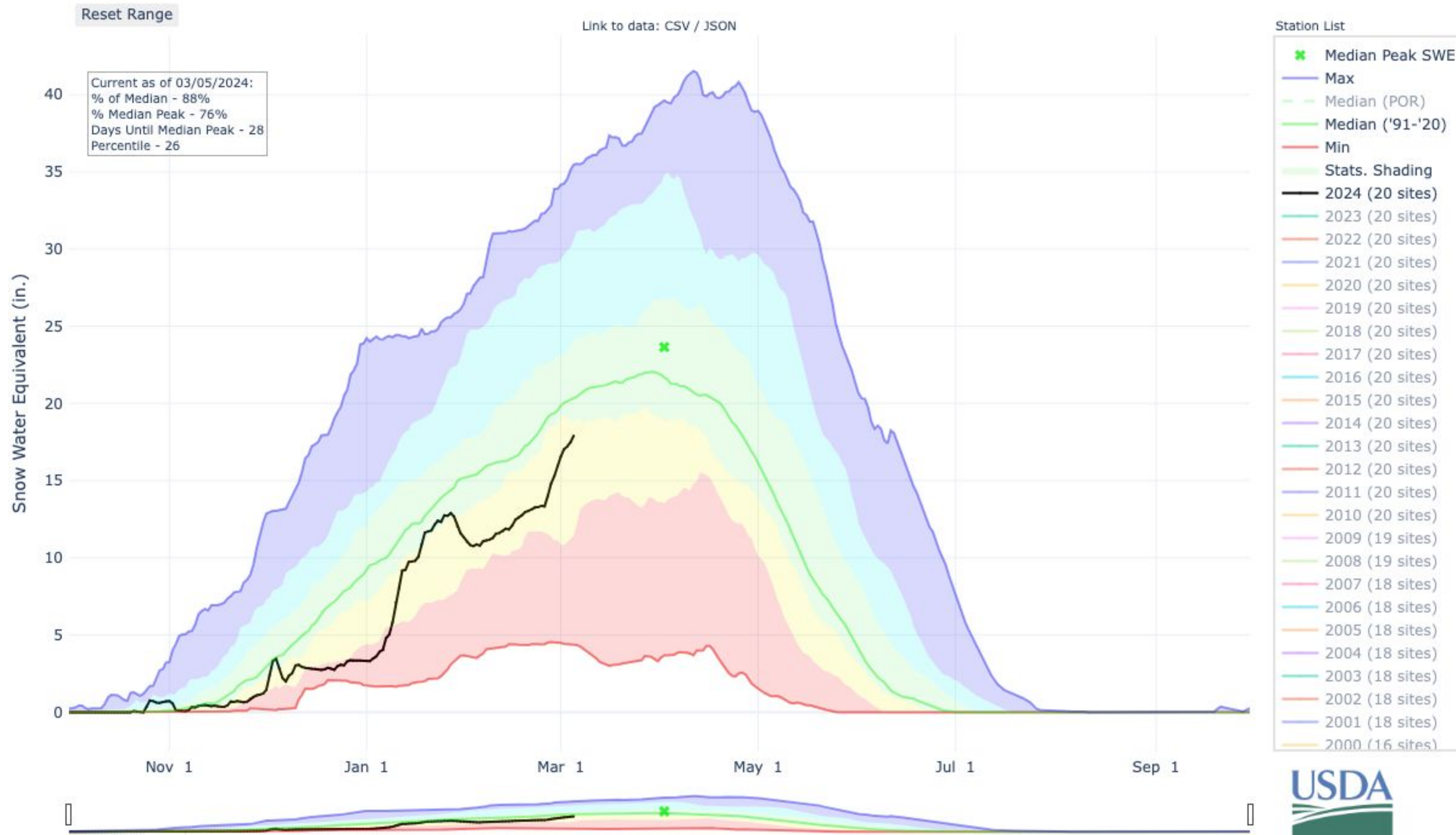
Shading breaks at the 10th, 30th, 50th, 70th, and 90th percentiles for the period of record.

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
Sunday, March 10



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

Reset Range

Link to data: CSV / JSON

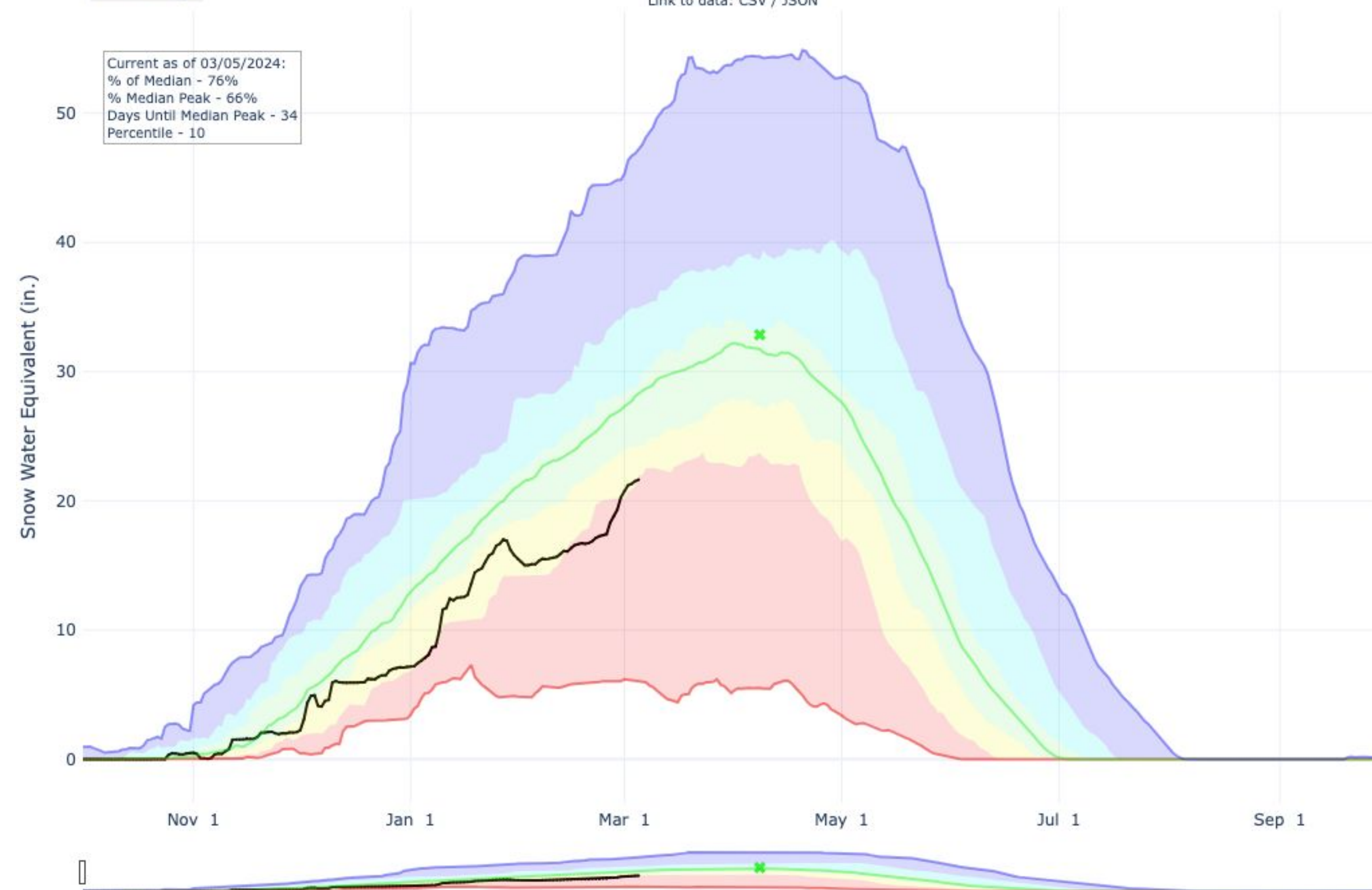
Current as of 03/05/2024:
% of Median - 76%
% Median Peak - 66%
Days Until Median Peak - 34
Percentile - 10

Station List

- Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (17 sites)
- 2023 (17 sites)
- 2022 (17 sites)
- 2021 (16 sites)
- 2020 (17 sites)
- 2019 (17 sites)
- 2018 (16 sites)
- 2017 (17 sites)
- 2016 (17 sites)
- 2015 (17 sites)
- 2014 (17 sites)
- 2013 (17 sites)
- 2012 (17 sites)
- 2011 (17 sites)
- 2010 (17 sites)
- 2009 (16 sites)
- 2008 (16 sites)
- 2007 (16 sites)
- 2006 (14 sites)
- 2005 (14 sites)
- 2004 (14 sites)
- 2003 (14 sites)
- 2002 (14 sites)
- 2001 (14 sites)
- 2000 (14 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

Reset Range

Link to data: CSV / JSON

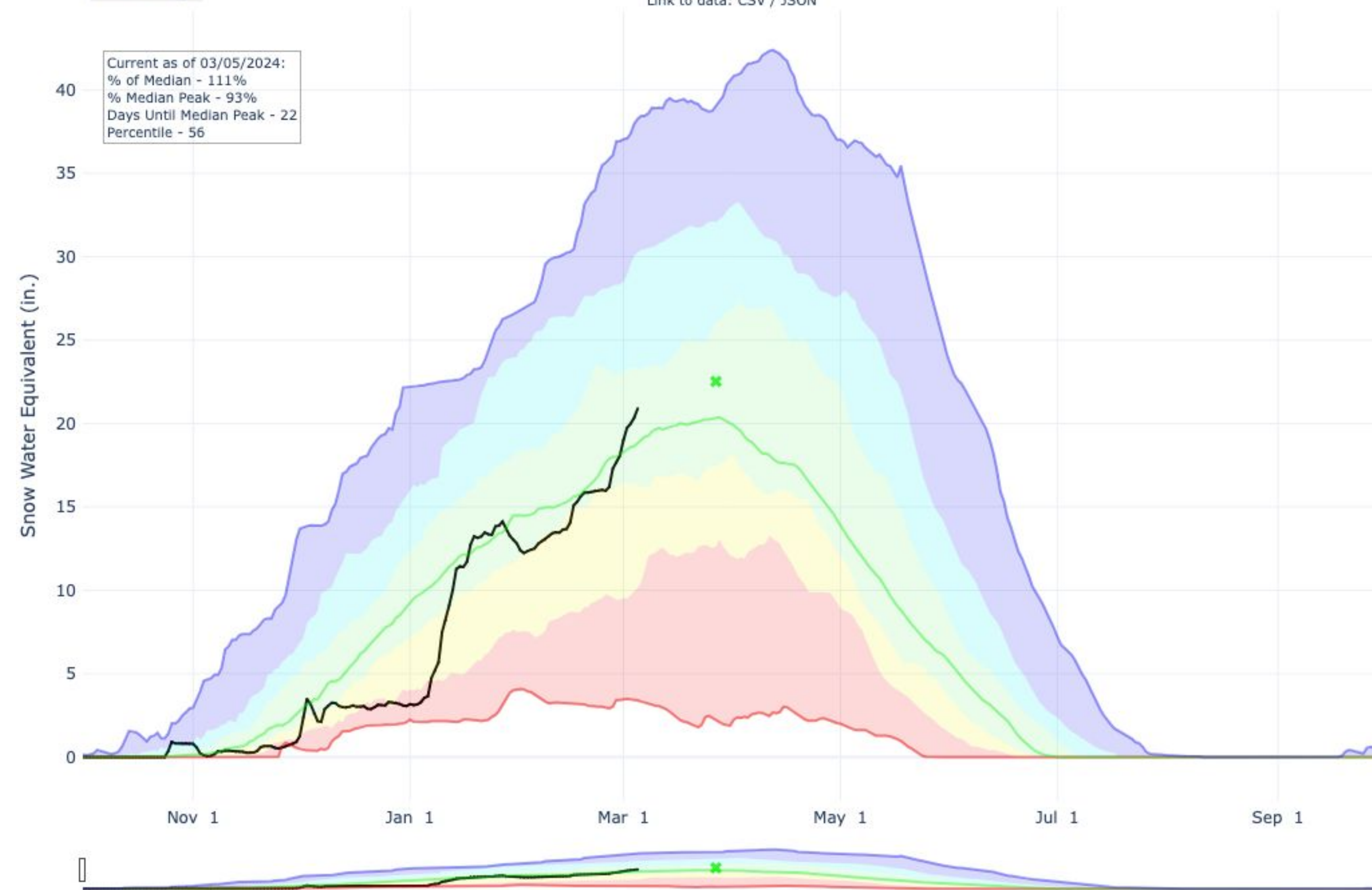
Current as of 03/05/2024:
% of Median - 111%
% Median Peak - 93%
Days Until Median Peak - 22
Percentile - 56

Station List

- ✱ Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (18 sites)
- 2023 (17 sites)
- 2022 (18 sites)
- 2021 (18 sites)
- 2020 (17 sites)
- 2019 (18 sites)
- 2018 (18 sites)
- 2017 (18 sites)
- 2016 (18 sites)
- 2015 (18 sites)
- 2014 (18 sites)
- 2013 (18 sites)
- 2012 (18 sites)
- 2011 (18 sites)
- 2010 (18 sites)
- 2009 (18 sites)
- 2008 (18 sites)
- 2007 (18 sites)
- 2006 (18 sites)
- 2005 (18 sites)
- 2004 (18 sites)
- 2003 (18 sites)
- 2002 (18 sites)
- 2001 (18 sites)
- 2000 (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

Reset Range

Link to data: CSV / JSON

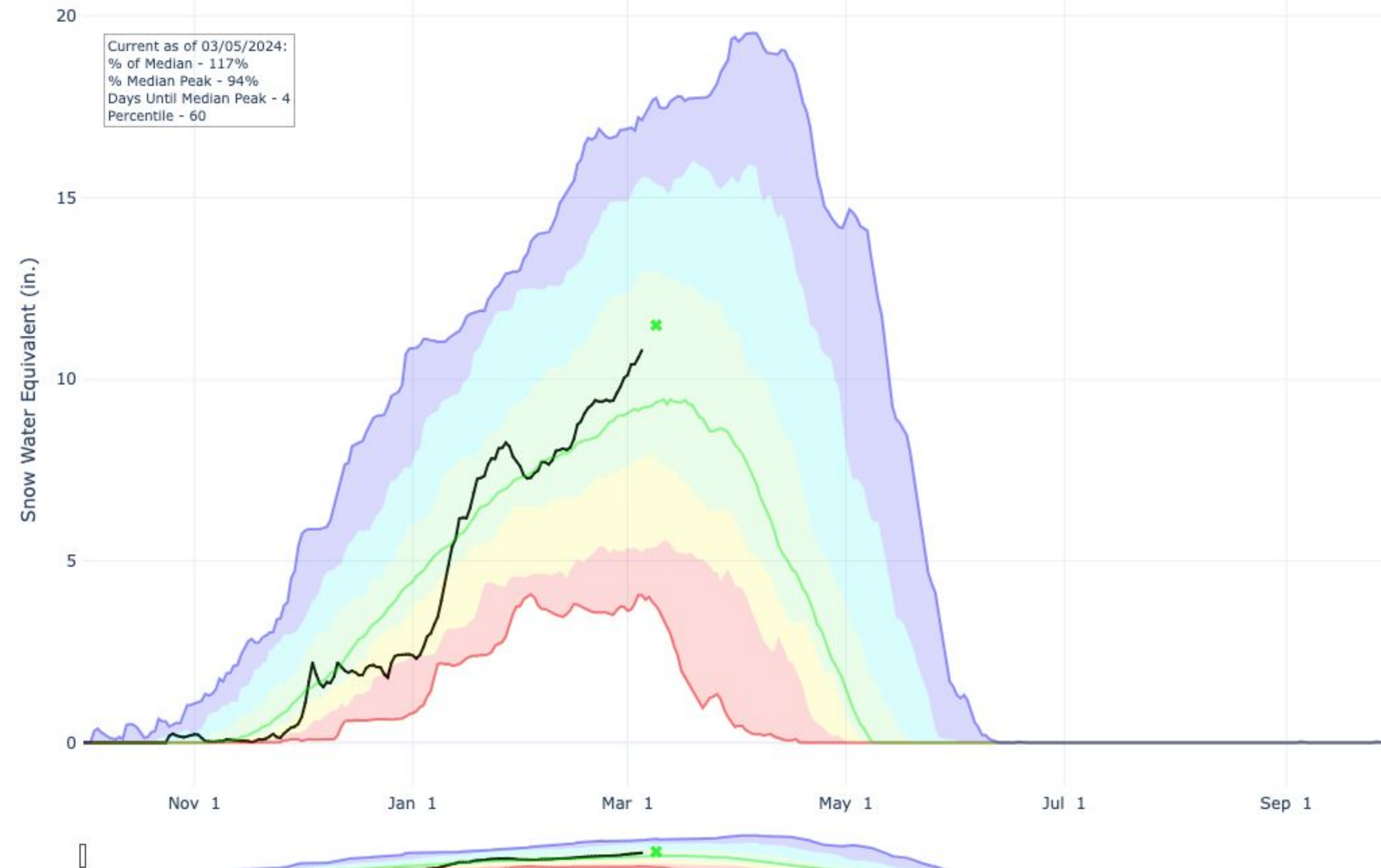
Current as of 03/05/2024:
% of Median - 117%
% Median Peak - 94%
Days Until Median Peak - 4
Percentile - 60

Station List

- ✖ Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (13 sites)
- 2023 (13 sites)
- 2022 (13 sites)
- 2021 (13 sites)
- 2020 (13 sites)
- 2019 (13 sites)
- 2018 (13 sites)
- 2017 (13 sites)
- 2016 (13 sites)
- 2015 (13 sites)
- 2014 (13 sites)
- 2013 (13 sites)
- 2012 (13 sites)
- 2011 (13 sites)
- 2010 (13 sites)
- 2009 (13 sites)
- 2008 (13 sites)
- 2007 (13 sites)
- 2006 (13 sites)
- 2005 (13 sites)
- 2004 (13 sites)
- 2003 (13 sites)
- 2002 (13 sites)
- 2001 (13 sites)
- 2000 (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
Sunday, March 10

- Near- to above-normal temperatures area-wide during February.
- Near- to below-normal precipitation for the Columbia Basin, foothills of the Blue Mountains, and Cascades.
- Near- to above-normal precipitation for much of central and northeast Oregon.
- Snow water equivalent (SWE) increased through the month for all basins/watersheds in NWS Pendleton's forecast area.



nws.pendleton@noaa.gov



(541) 276-7832



weather.gov/pendleton

