



Drought Information Statement for New Hampshire and Western Maine November

Issued By: NWS Gray Maine Contact Information: gyx.skywarn@noaa.gov

- Please see all currently available products at <u>https://drought.gov/drought-information-statements</u>.
- Please visit https://www.drought.gov/drought-status-updates/ for regional drought status updates.

Fall precipitation was down 6 to 10 inches, which is 30% to 50% of normal.

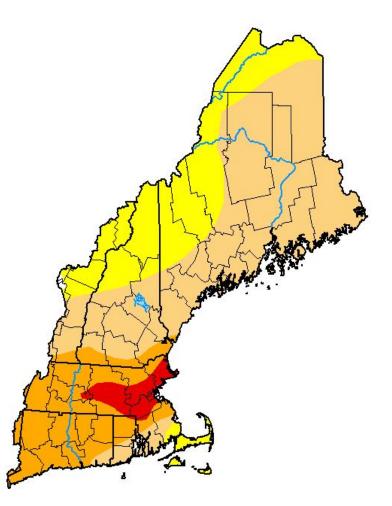


U.S. Drought Monitor

Link to the latest U.S. Drought Monitor for the Northeast

- Drought intensity and Extent
 - **D2 (Severe Drought)**: Southern Cheshire, Ο Hillsborough, Rockingham, and York Counties
 - **D1 (Moderate Drought)**: Sullivan, Ο Merrimack, Belknap, Strafford, Cumberland, Androscoggin, Kennebec, Lincoln, Sagadahoc, and Knox Counties, including southern portions of Grafton, Carroll, Oxford, Franklin, and Somerset Counties.
 - **D0: (Abnormally Dry)**: Northern portions Ο of Grafton, Carroll, Oxford, Franklin, and Somerset Counties.

U.S. Drought Monitor New England Watershed





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November 19, 2024

(Released Thursday, Nov. 21, 2024) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.13	99.87	<mark>7</mark> 3.43	22.38	3.62	0.00
Last Week 11-12-2024	0.12	99.88	65.42	11.83	0.00	0.00
3 Month s Ago 08-20-2024	97.36	2.64	0.00	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	<mark>99.40</mark>	0.60	0.24	0.24	0.00	0.00
Start of Water Year 10-01-2024	40.60	59.40	<mark>6.6</mark> 1	0.00	0.00	0.00
One Year Ago 11-21-2023	99.40	0.60	0.00	0.00	0.00	0.00

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D4 Exceptional Droug The Drought Monitor focuses on broad-scale conditions Local conditions may vary. For more information on the

D2 Severe Drought

D3 Extreme Drought

Drought Monitor, go to https://droughtmonitor.unl.edu/About.asi

Author: Richard Tinker CPC/NOAA/NWS/NCEP

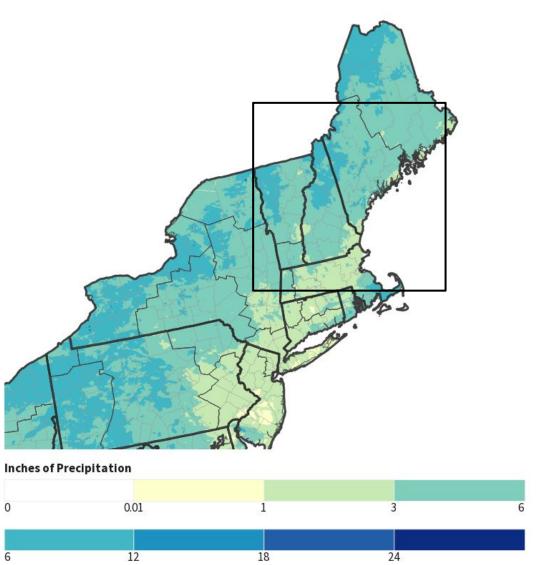


droughtmonitor.unl.edu



Fall Precipitation Ending Nov 21 2024

- Drier than normal conditions started in September and continued into late November
- Most of the region only observed a months worth of rainfall for the entire Fall season
- Precipitation was 2 standard deviations below normal



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov



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Last Updated: 11/21/24

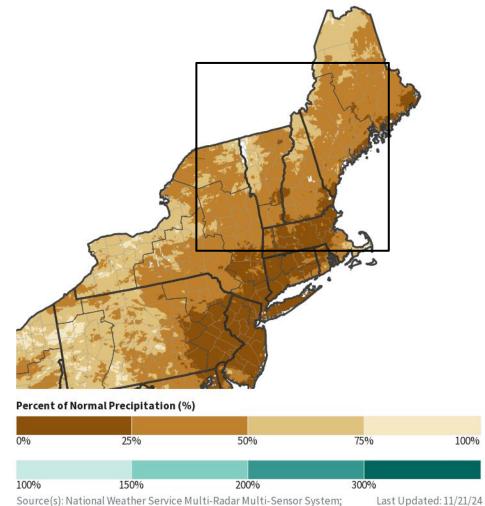


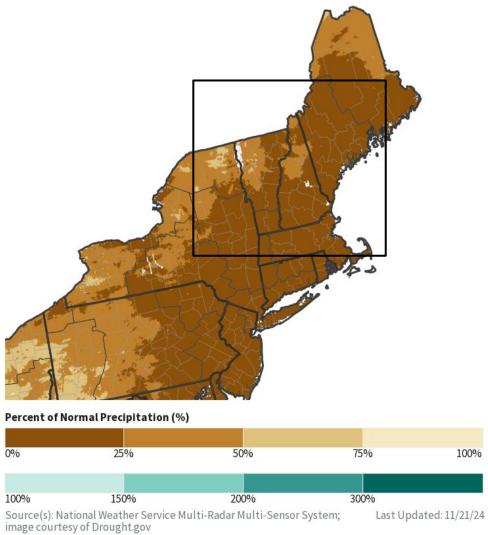
90-Day Percent of Normal Precipitation

image courtesy of Drought.gov

30-Day Percent of Normal Precipitation

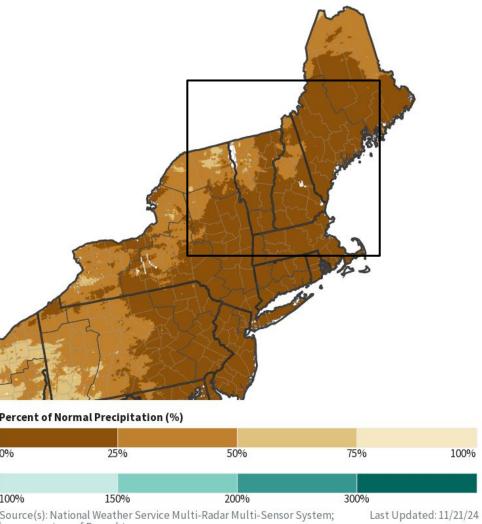
- Deficits of 6-10" were observed in the Fall
- One of the top 5 driest falls on record







100%



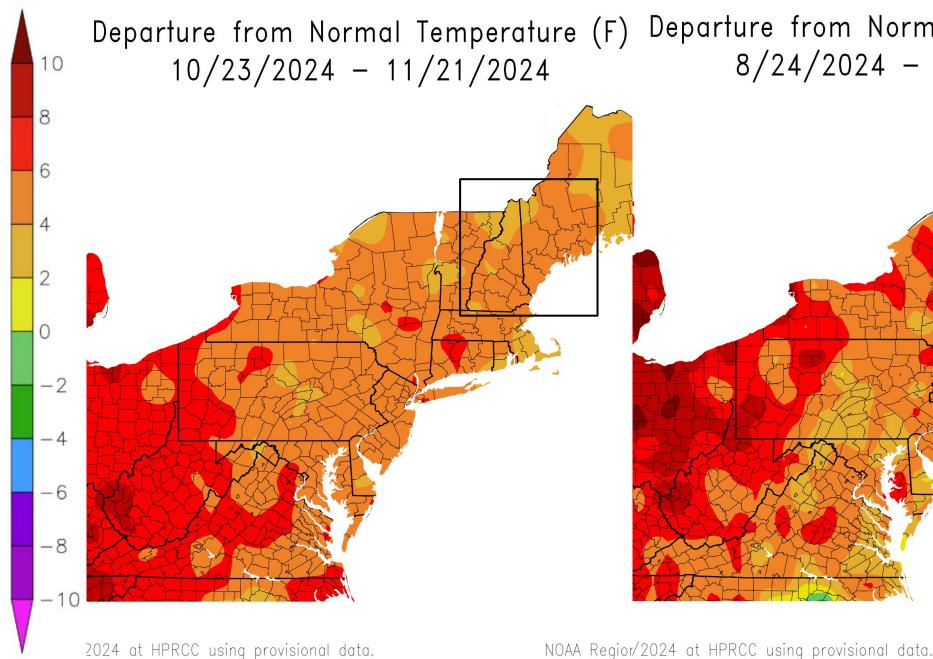


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Above normal temperatures coincided with dry-period, increasing evaporation and accelerating drought





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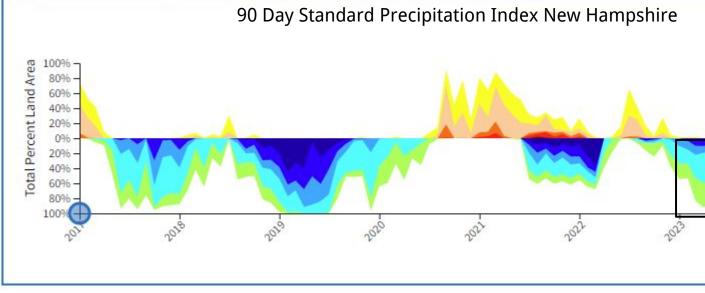
Departure from Normal Temperature (F) 8/24/2024 - 11/21/2024

NOAA Regiona

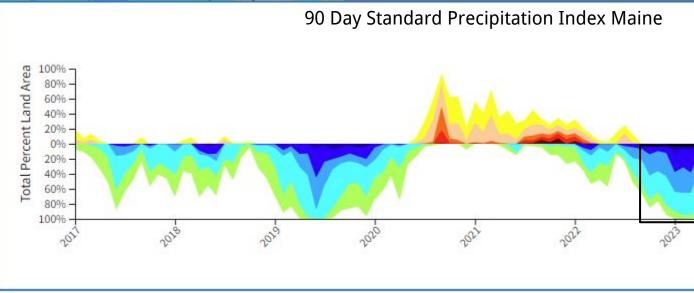


Longer-Term Precipitation Anomalies*

Drought conditions lagged behind fall rainfall deficits due to predecessor wet conditions

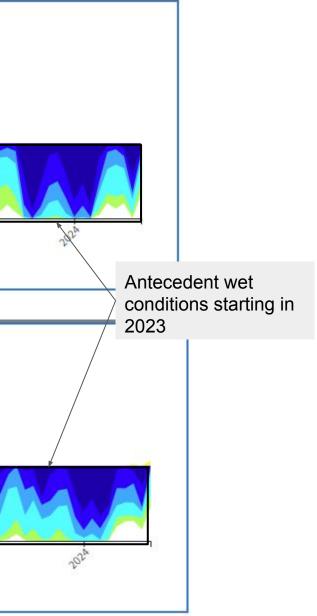


The Standardized Precipitation Index (SPI) measures water supply, specifically precipitation. SPI captures how observed precipitation (rain, hail, snow) deviates from the climatological average over a given time period—in this case, over the 9 months leading up to the selected date.





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Hydrologic Conditions and Impacts

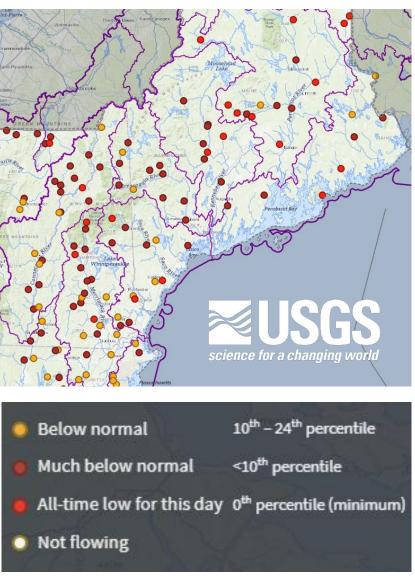
 Drought conditions have reduced rivers to near record low levels for November based on USGS streamflow stations

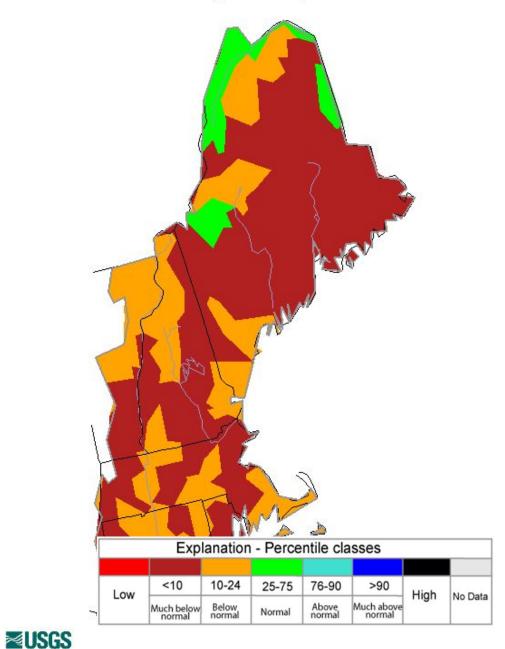
Image 1 (left): USGS Streamflow: Low Flow Low flows are based on the percentile of existing streamflow records on this day of the year.

Image 2(right): USGS 7 day average streamflow HUC map valid November 21 2024



National Oceanic and Atmospheric Administration U.S. Department of Commerce USGS Streamflow: Low Flow Nov 22, 2024





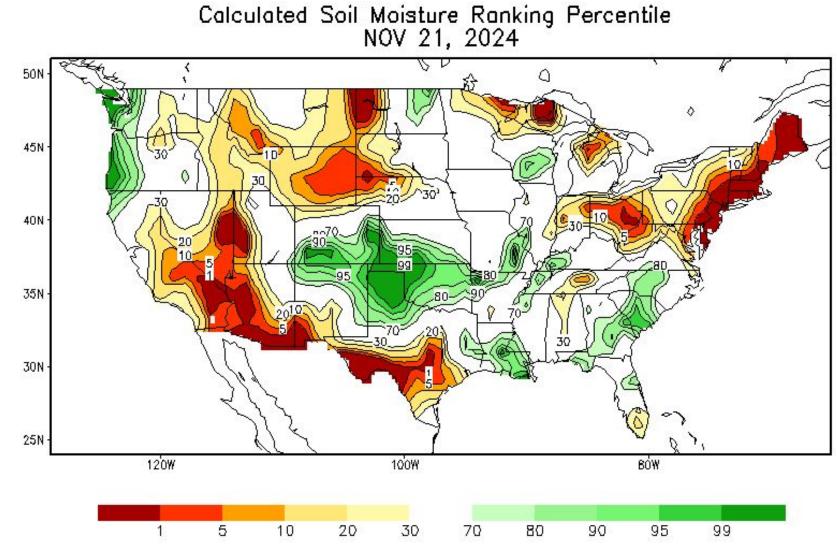
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Thursday, November 21, 2024



Agricultural Impacts

Though the agricultural growing season has passed, limited soil moisture can put stress on forests

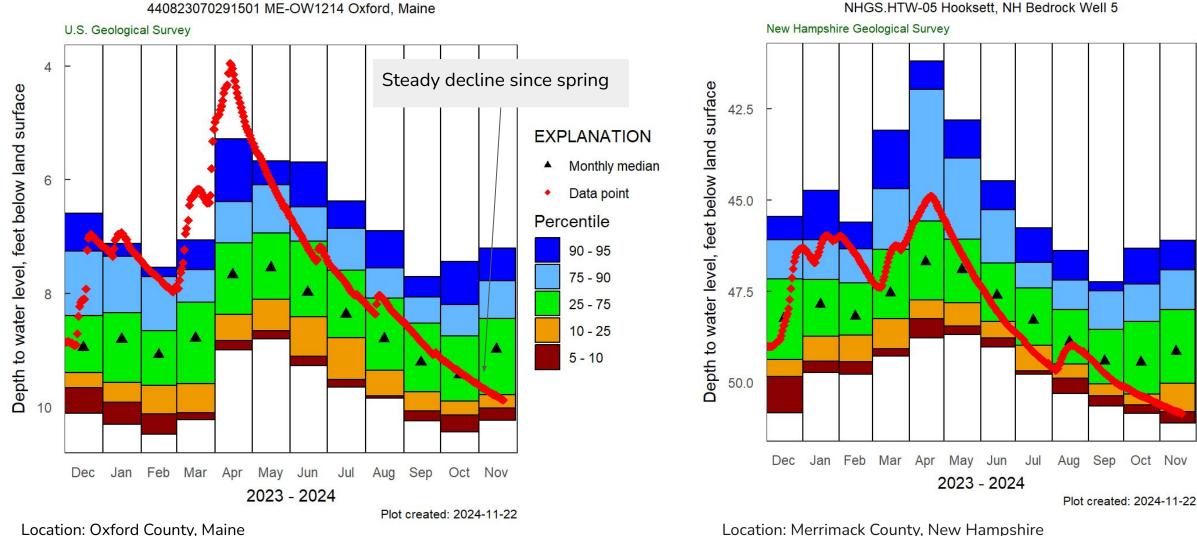




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Groundwater Impacts

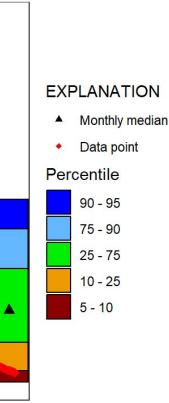


Several groundwater monitoring wells are the lowest they've been in November for the period of record (30-40 years) Source: USGS Groundwater Wells



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Drought Outlook

The latest monthly and seasonal outlooks can be found on the CPC homepage

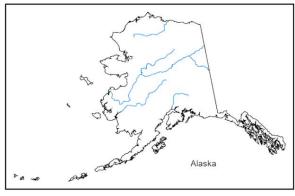
- Climate prediction center drought outlooks favor little change in conditions through the winter season
- Drought is favored to persist, particularly across southern areas
- Note: Once the ground freezes groundwater conditions show little change until the spring thaw.

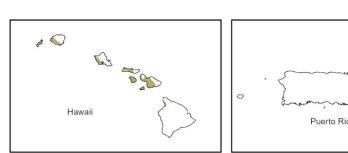
U.S. Seasonal Drought Outlook Valid for November 21, 2024 - February 28, 2025

Drought Tendency During the Valid Period

Author: Adam Hartman

NOAA/NWS/NCEP Climate Prediction Center





Links to the latest: Climate Prediction Center Monthly Drought Outlook **Climate Prediction Center Seasonal Drought Outlook**



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Released November 21, 2024

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Drought persists

Drought remains, but improves

Drought removal likely

Drought development likely

No drought

* . U.S. Virgi Islands

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https://go.usa.gov/3eZ73



Summary of Impacts

Links: See/submit Condition Monitoring Observer Reports (CMOR) and view the Drought Impacts Reporter

Hydrologic Impacts

Below normal to all time low streamflows and groundwater levels for this date in November based on USGS gages

Agricultural Impacts

Though the agricultural growing season has passed, limited soil moisture can put stress on forests

Fire Hazard Impacts

The total count of wildfires was slightly above average

Other Impacts

Dry wells can occur during periods of drought. Report dry wells in Maine to the Dry Well Dashboard

Mitigation Actions

Please refer to your municipality and/or water provider for mitigation information.



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Contact Information



Briefing Webpage

www.weather.gov/gyx/EMhome https://www.weather.gov/gyx/drought

Disclaimer

- Information contained in this briefing is time-sensitive \rightarrow
- Do Not Use After: December 21, 2024 \rightarrow

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