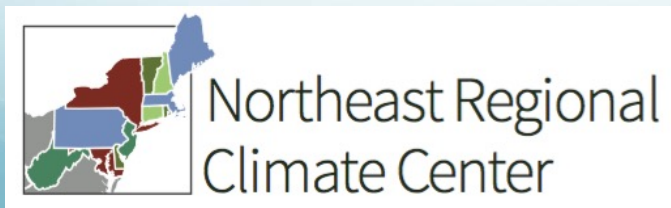
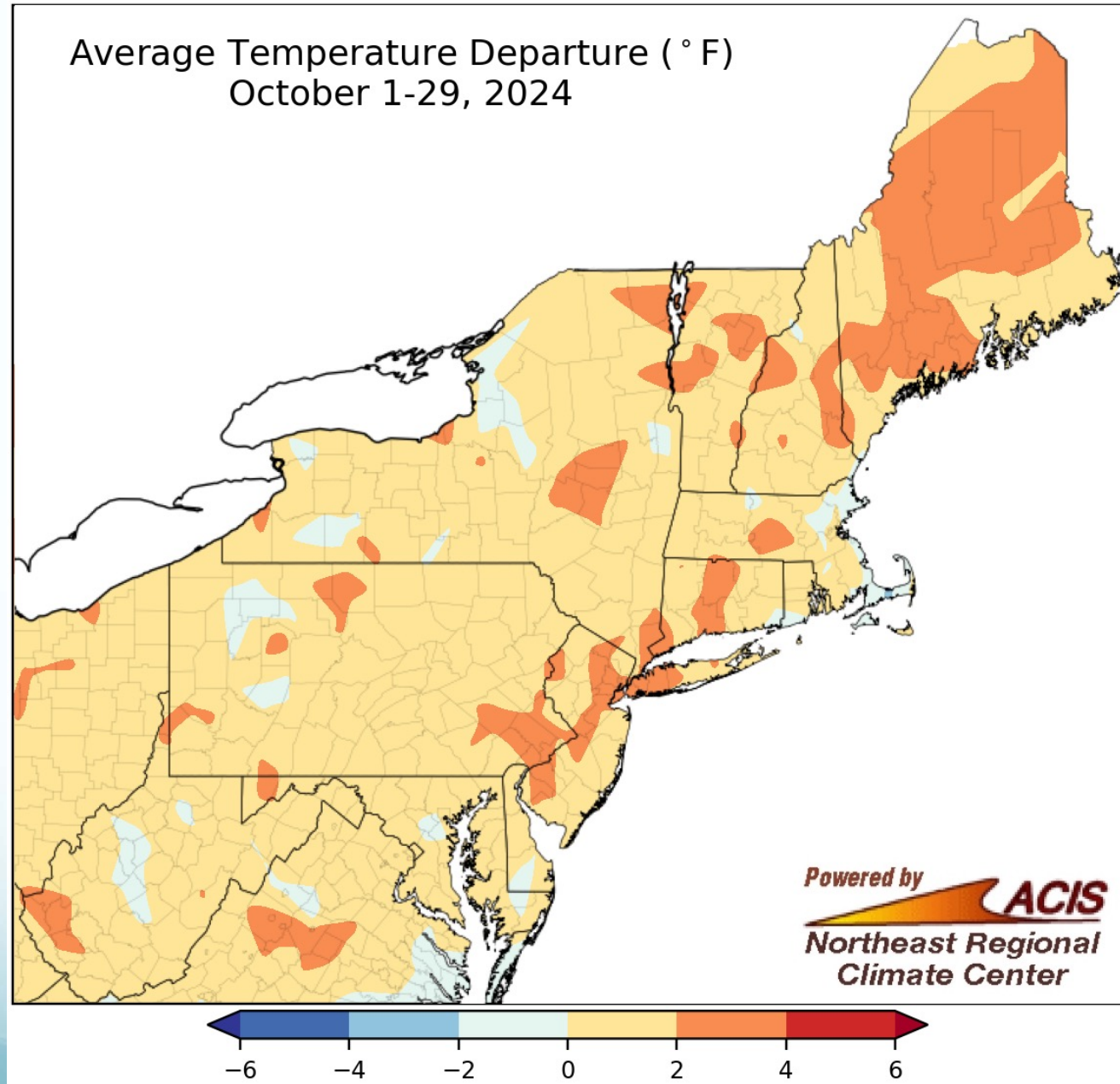


October Conditions & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



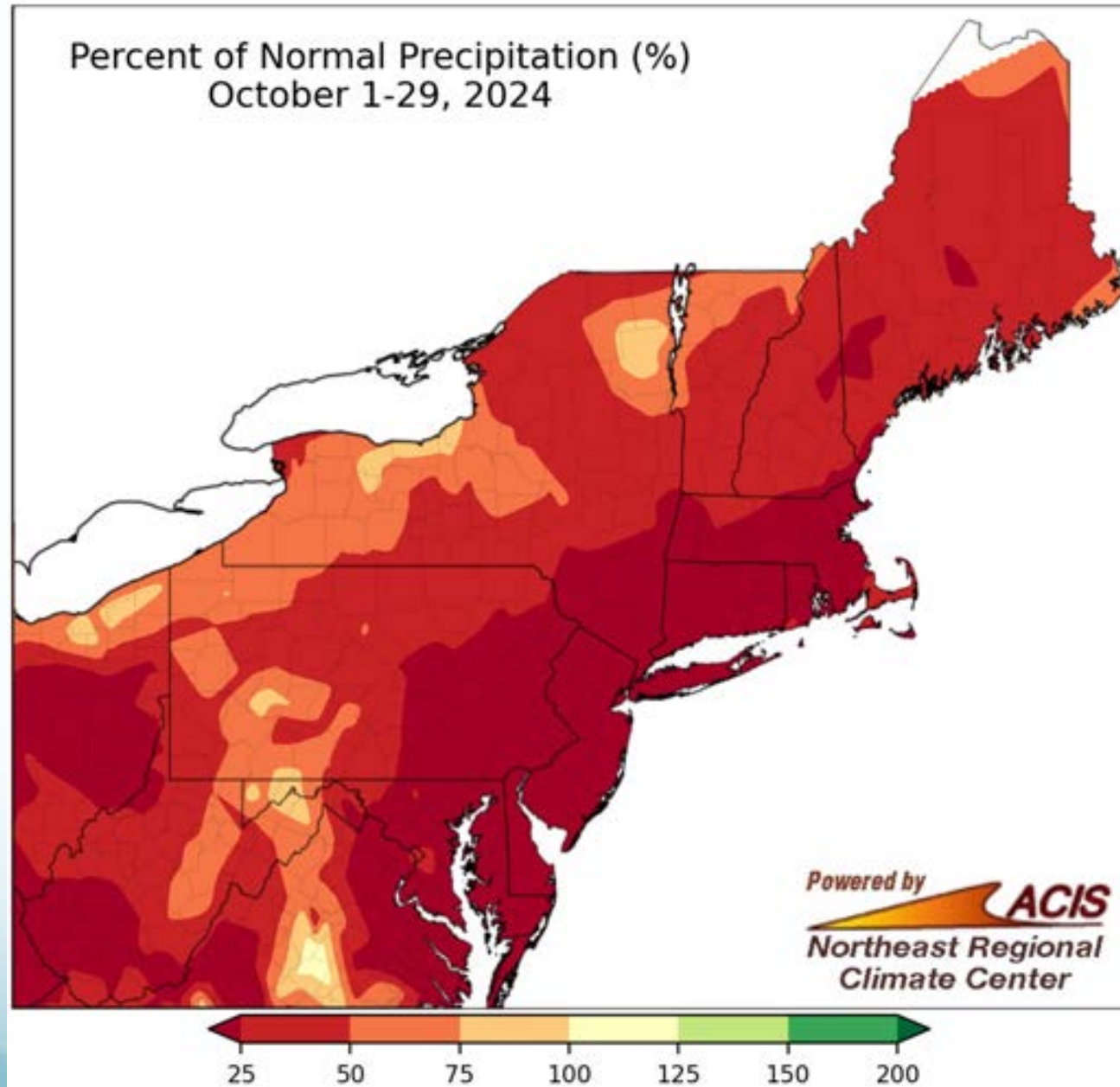
October Temperatures



From 2°F below normal to 4°F above normal



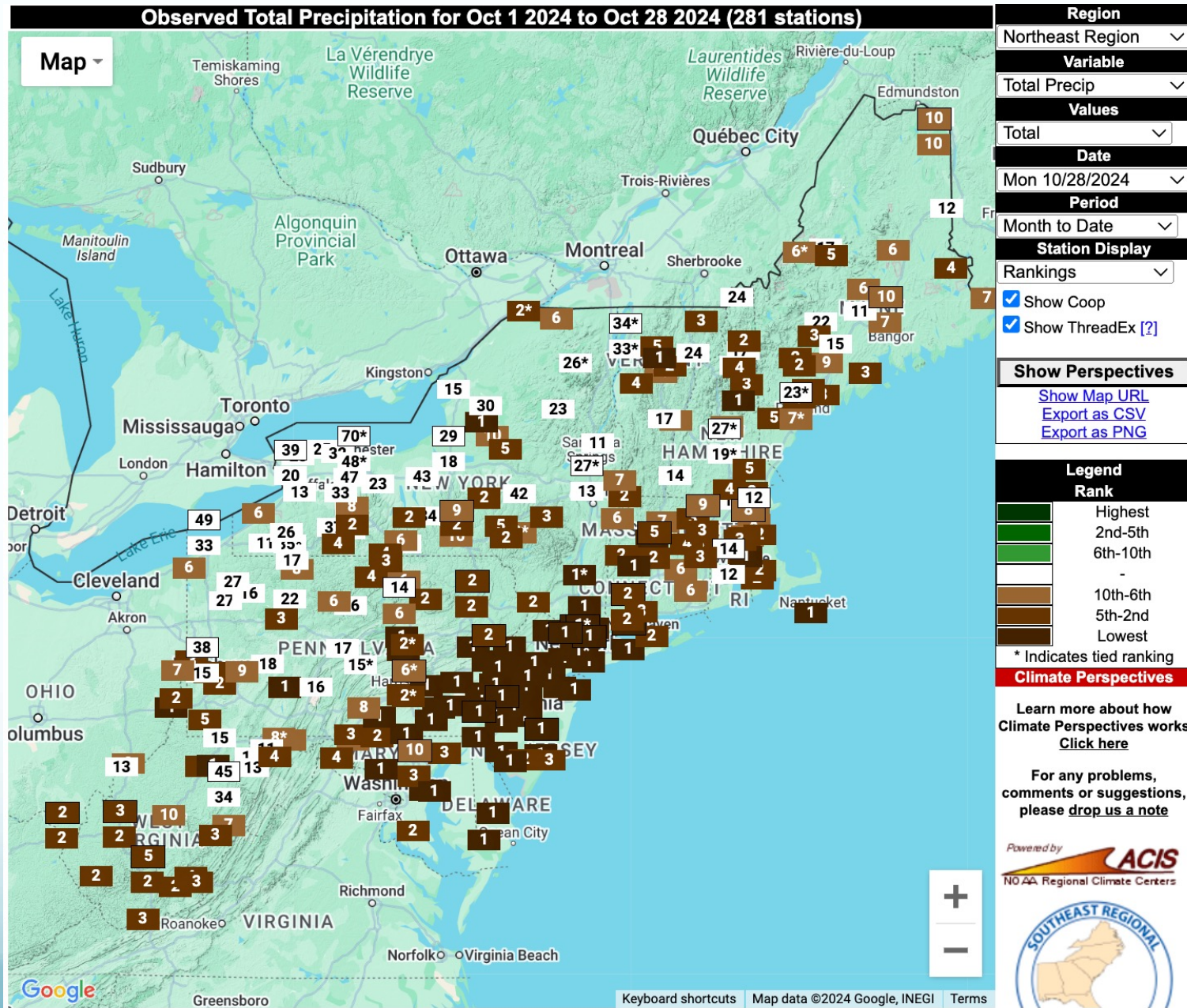
October Precipitation



From less than 25% of normal to near normal



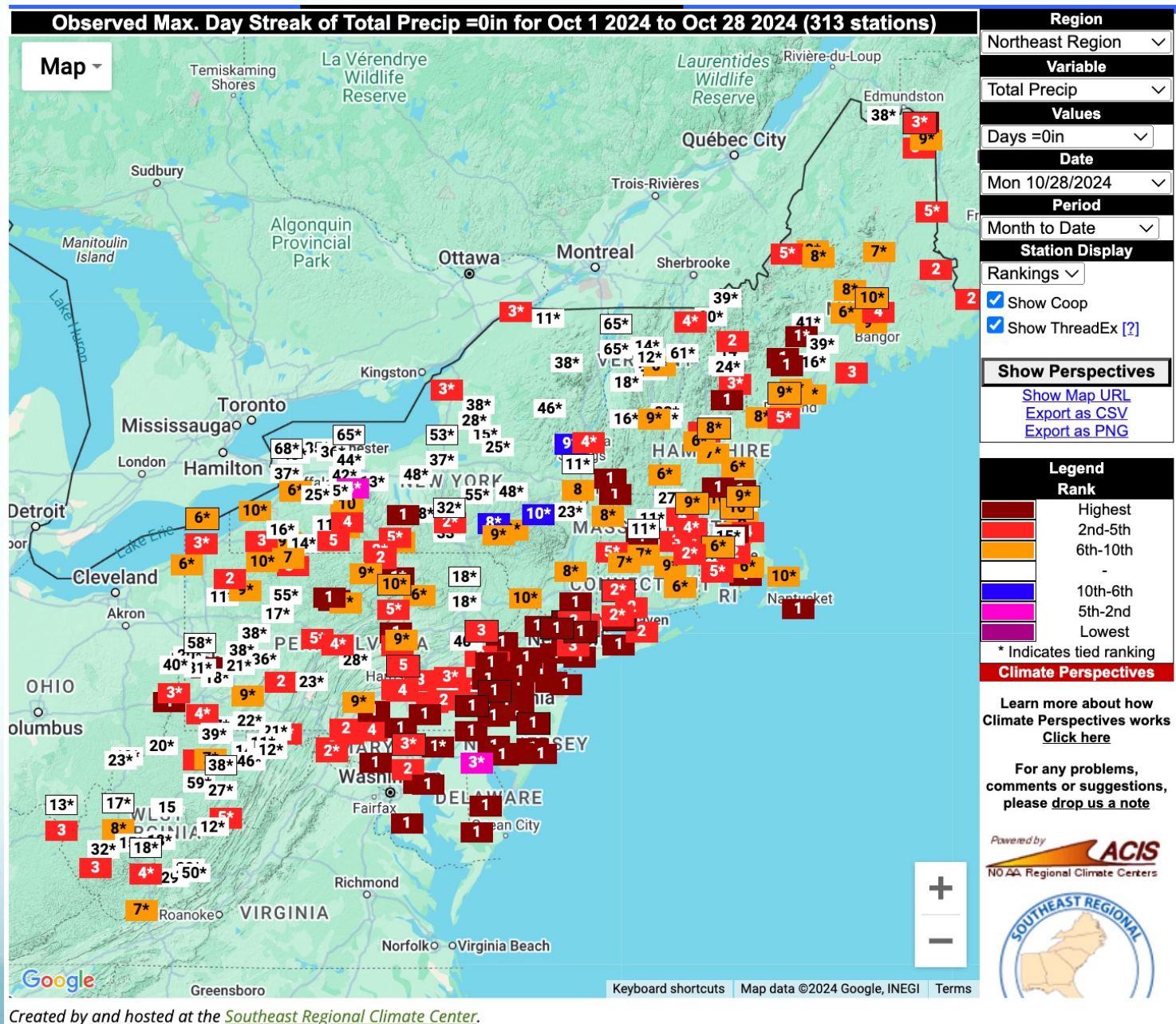
October Precipitation



Created by and hosted at the [Southeast Regional Climate Center](#).



October Precipitation



October Precipitation

Number of Consecutive Days Precipitation = 0 for Philadelphia Area, PA (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Run Length	Missing Days	Dates
1	32	0	2024-09-29 through 2024-10-30
2	29	0	1874-10-11 through 1874-11-08
3	28	0	1963-10-04 through 1963-10-31
4	26	0	1886-09-30 through 1886-10-25
5	25	0	2001-04-25 through 2001-05-19
Last value also occurred in one or more previous years.			
Period of record: 1871-11-01 to 2024-10-30			

Number of Consecutive Days Precipitation = 0 for Newark Area, NJ (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Run Length	Missing Days	Dates
1	31	0	2024-09-30 through 2024-10-30
2	26	0	1949-05-30 through 1949-06-24
3	25	0	1939-11-06 through 1939-11-30
4	24	0	1995-08-16 through 1995-09-08
-	24	0	1980-01-23 through 1980-02-15
Last value also occurred in one or more previous years.			
Period of record: 1931-02-01 to 2024-10-30			

Time Series Summary for Philadelphia Area, PA (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Year-Month	Total Precipitation	Missing Count
1	2024-10	T	1
2	1963-10	0.09	0
-	1924-10	0.09	0
4	1949-06	0.11	0
5	1884-09	0.20	0

Time Series Summary for Islip Area, NY (ThreadEx)

[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Year-Month	Total Precipitation	Missing Count
1	2024-10	0.12	1
2	2000-10	0.18	0
-	1964-08	0.18	0
4	2013-10	0.22	0
5	2024-09	0.24	0
-	1963-10	0.24	0

Time Series Summary for New York-Central Park Area, NY (ThreadEx)

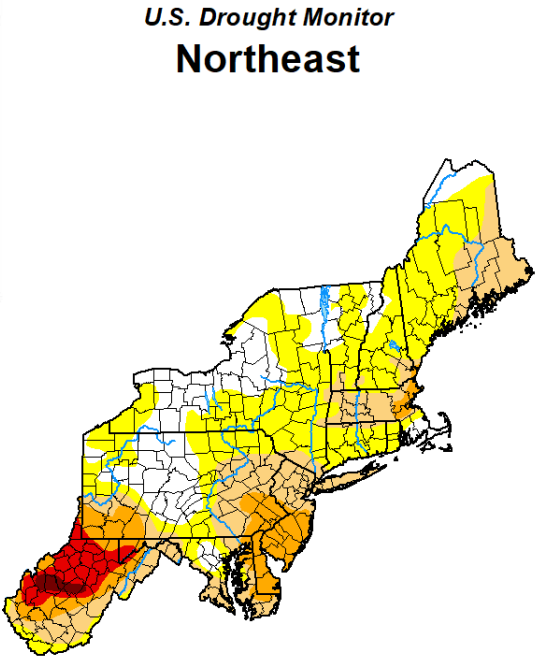
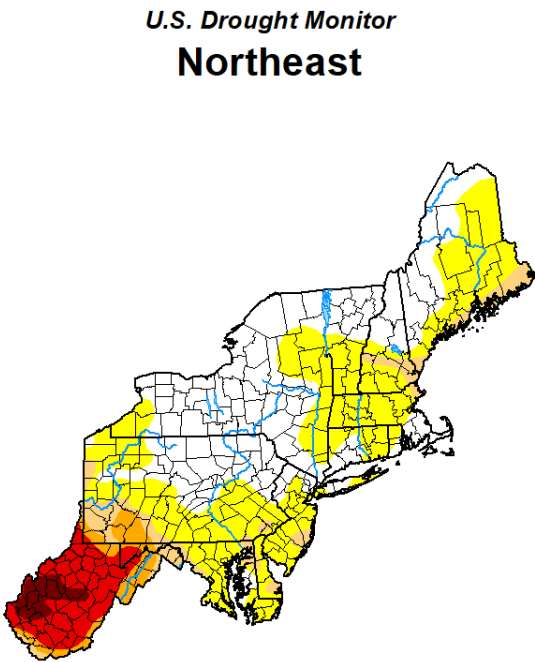
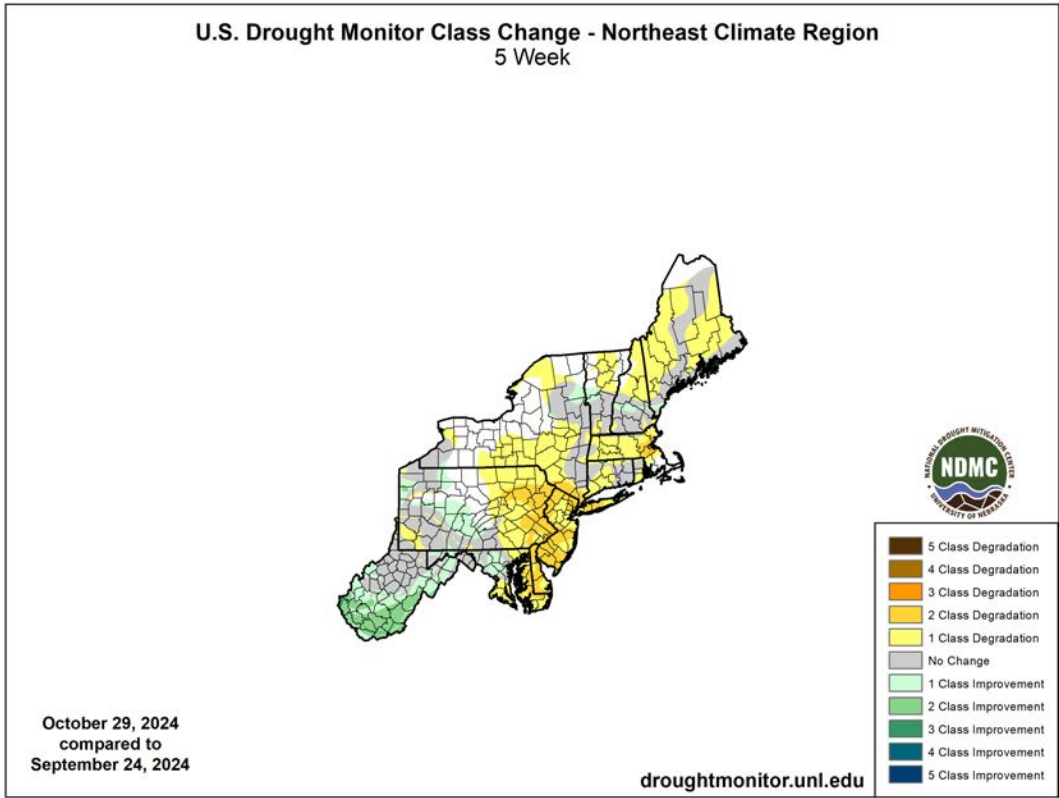
[Click column heading to sort ascending, click again to sort descending.](#)

Rank	Year-Month	Total Precipitation	Missing Count
1	2024-10	0.01	1
2	1949-06	0.02	0
3	1963-10	0.14	0
4	1995-08	0.18	0
5	1884-09	0.21	0

Sites also seeing all-time driest month (through 10/28): Wilmington, Atlantic City, Newark, LaGuardia Airport, and Allentown



Drought Monitor



September 24, 2024
(Released Thursday, Sep. 26, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	40.98	39.15	6.94	3.57	7.37	1.98
Last Week 09-17-2024	67.38	15.93	3.77	4.91	6.20	1.81
3 Months Ago 06-25-2024	56.71	30.97	12.31	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 09-26-2023	88.48	10.08	1.36	0.08	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:
Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu

October 29, 2024
(Released Thursday, Oct. 31, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	21.01	40.71	23.05	10.42	4.14	0.67
Last Week 10-22-2024	36.05	34.69	17.58	6.87	4.14	0.67
3 Months Ago 07-30-2024	60.02	19.18	12.02	6.07	2.70	0.00
Start of Calendar Year 01-02-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 10-01-2024	45.94	34.77	9.37	4.97	4.27	0.67
One Year Ago 10-31-2023	82.70	15.28	1.75	0.27	0.00	0.00

Intensity:

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

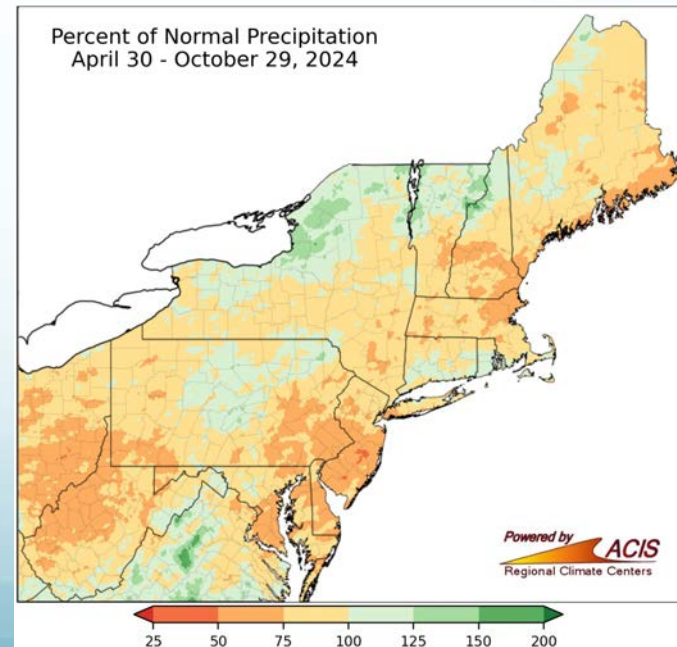
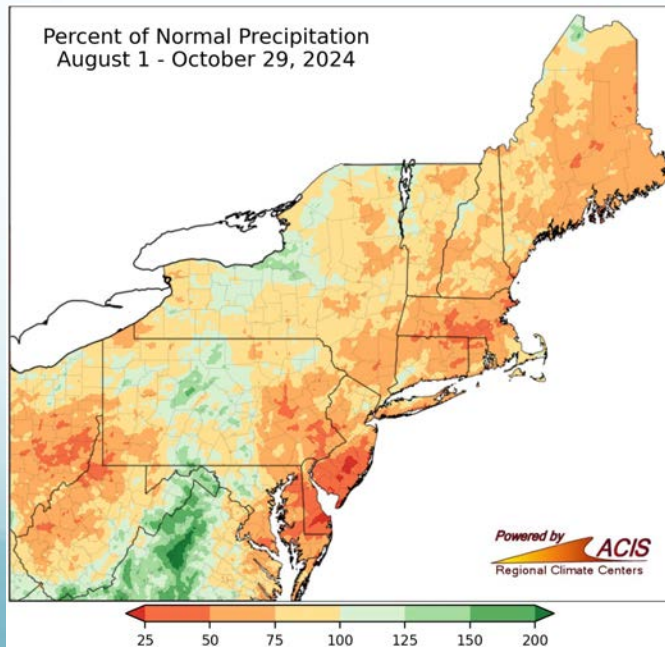
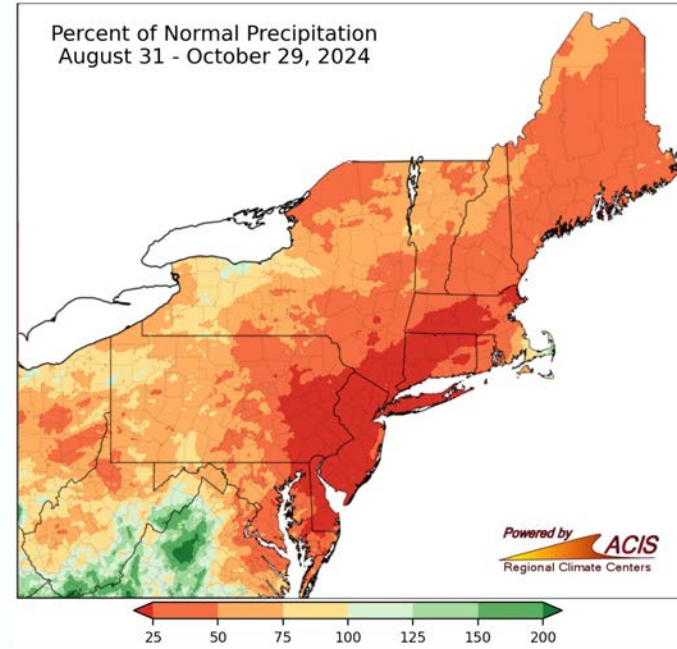
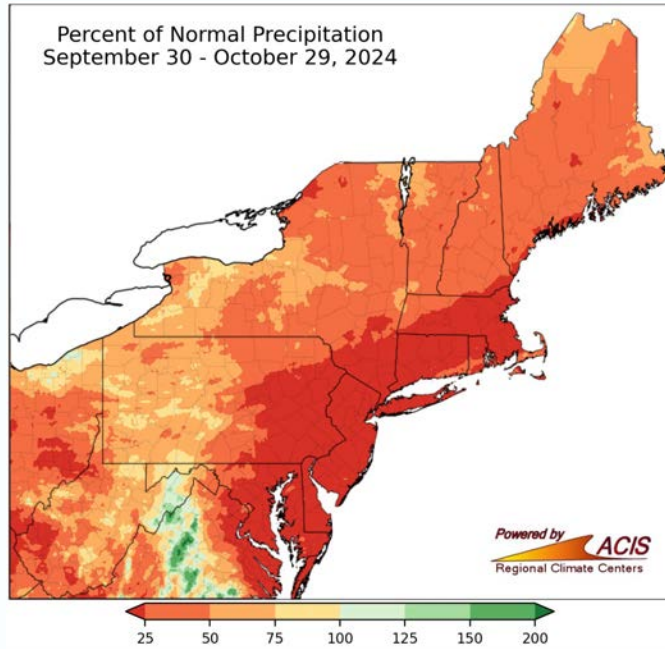
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:
Brian Fuchs
National Drought Mitigation Center

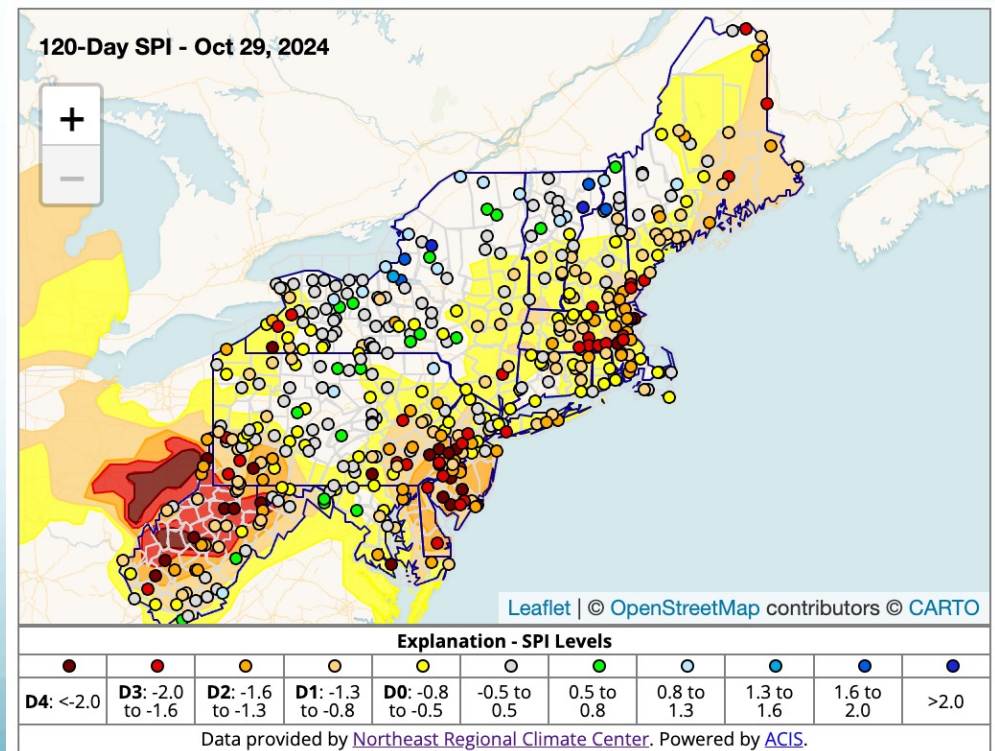
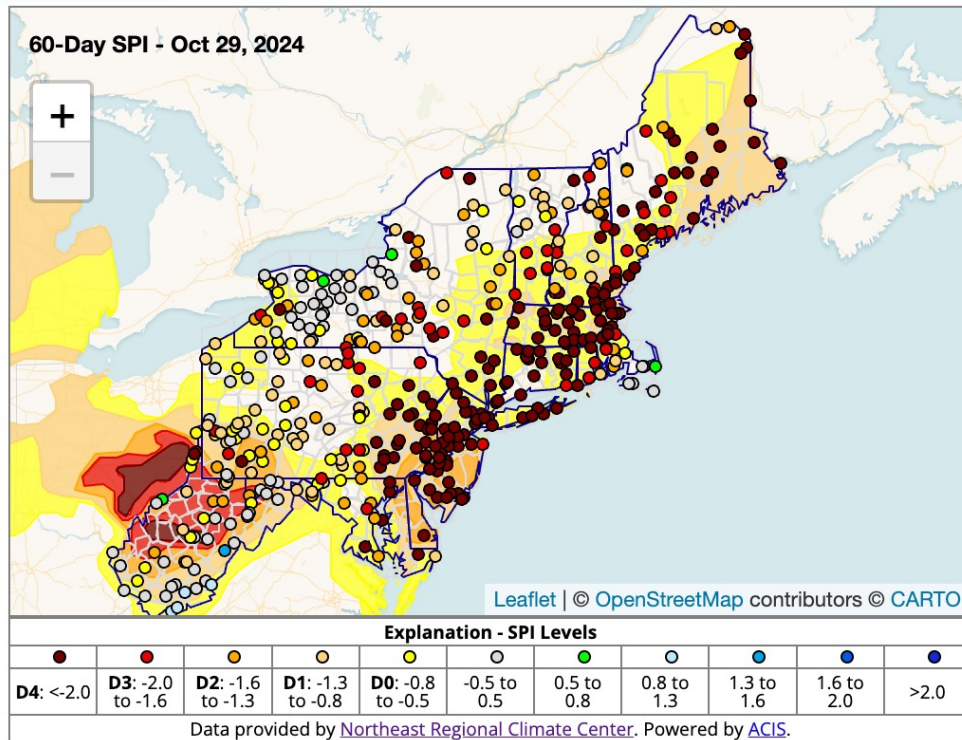


droughtmonitor.unl.edu

Precipitation



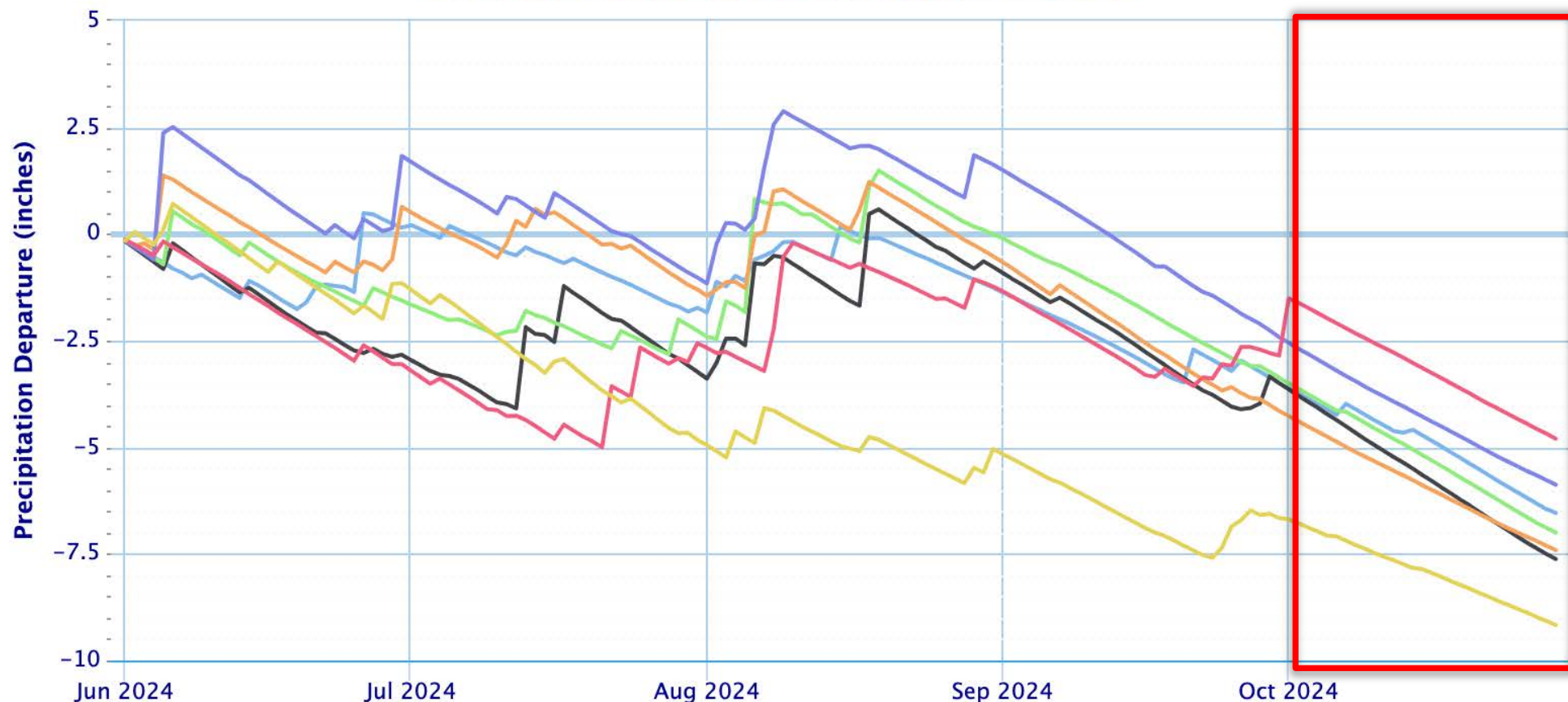
Standardized Precipitation Index



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



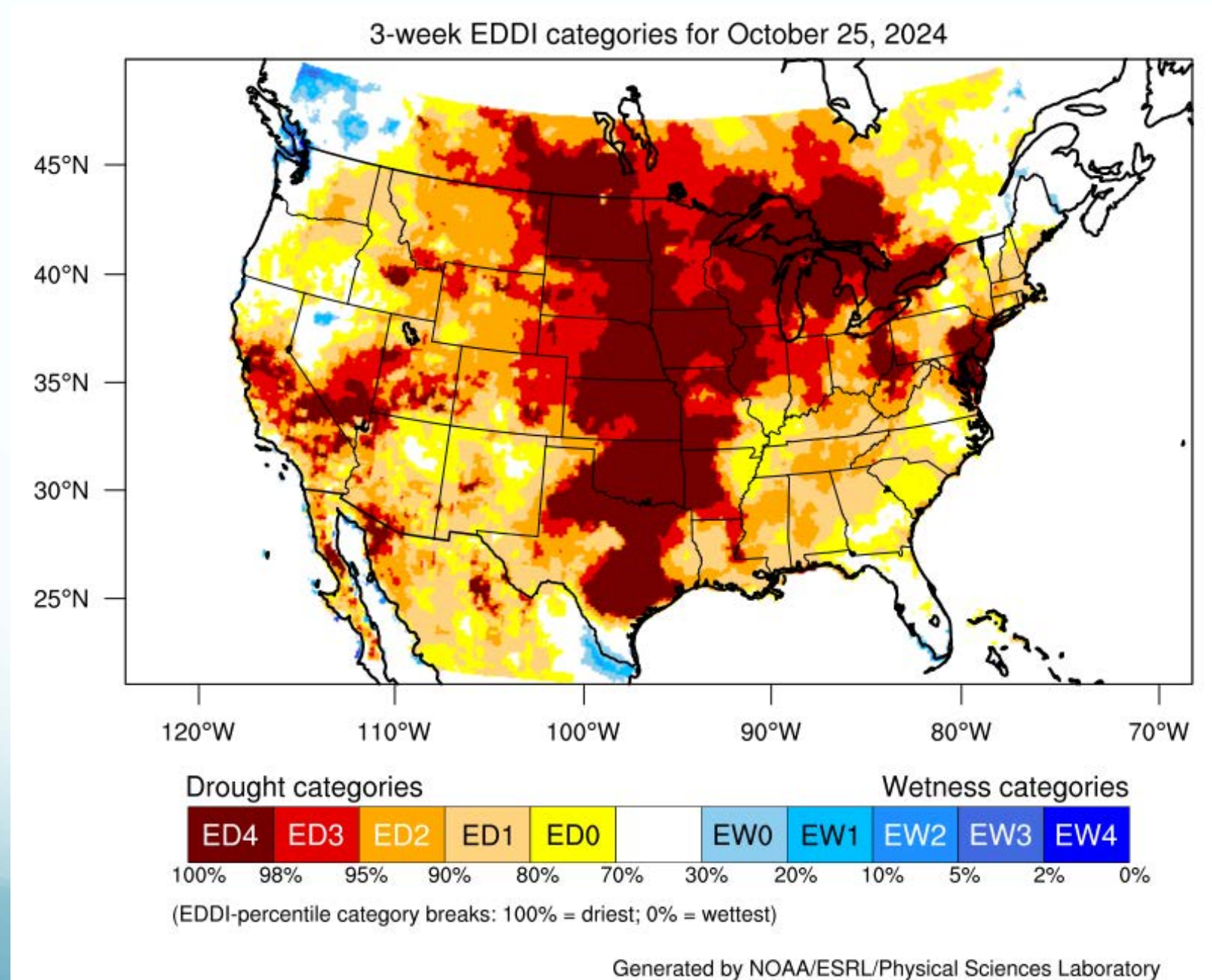
(Click to hide/show lines)

- Boston Area, MA (ThreadEx):Precip Dprt
- Islip Area, NY (ThreadEx):Precip Dprt
- Wilmington Area, DE (ThreadEx):Precip Dprt
- Charleston Area, WV (ThreadEx):Precip Dprt
- New York-Central Park Area, NY (ThreadEx):Precip Dprt
- Philadelphia Area, PA (ThreadEx):Precip Dprt
- Washington Area, DC (ThreadEx):Precip Dprt



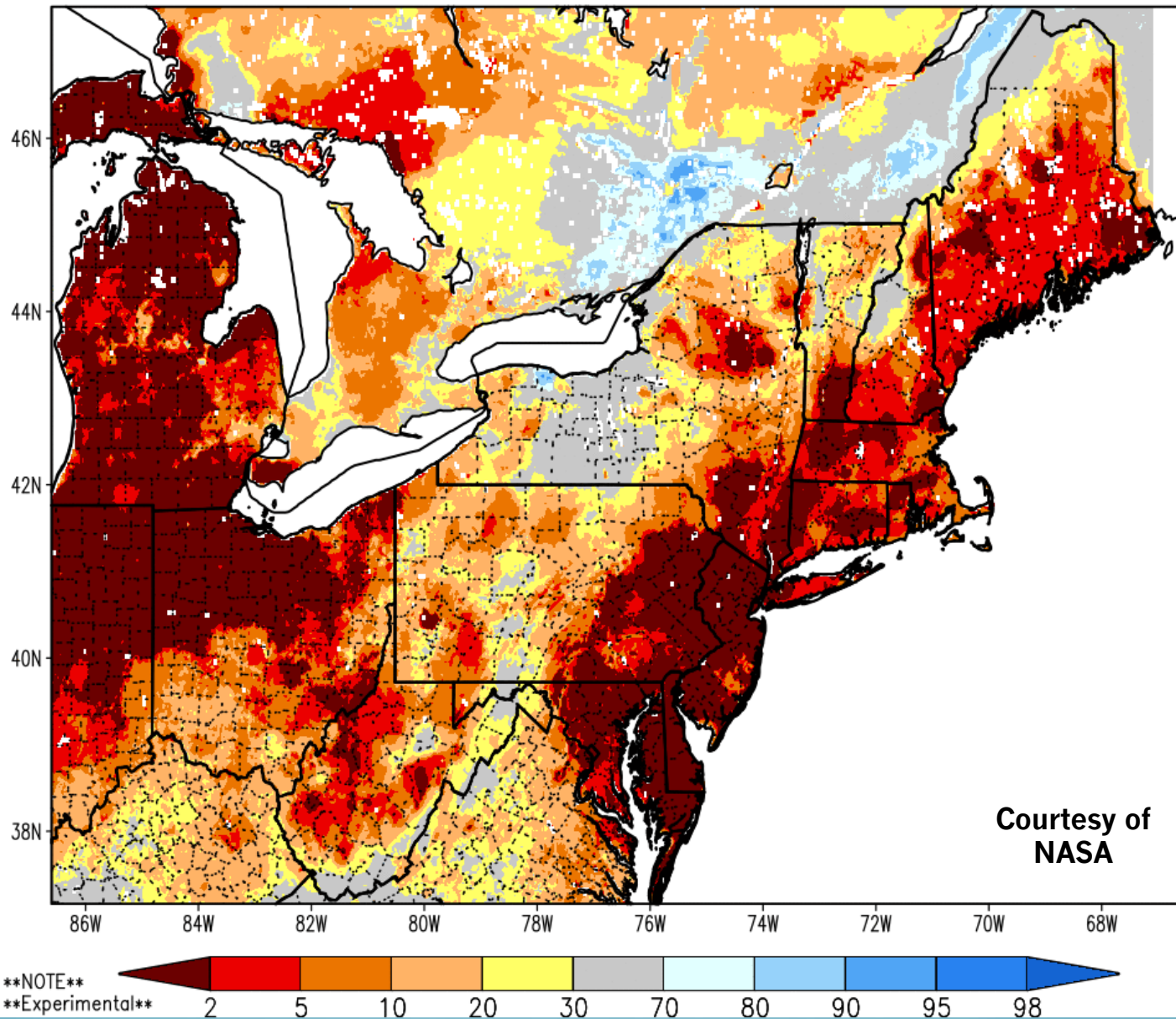
Powered by ACIS

Evap. Demand Drought Index



Soil Moisture

SPoRT-LIS 0-100 cm Soil Moisture percentile valid 31 Oct 2024



Drought Impacts

Farmers face challenging drought conditions across the Garden State



By [Trish Hartman](#)

Monday, October 21, 2024 6:48PM

Delmarva Drought Takes Toll on Christmas Tree Farms Ahead of Holiday Season

Jack Ford
Oct 21, 2024

WBOC

Farms in Philadelphia region feeling impacts of drought: "We've never seen it this dry"



By Madeleine Wright, Ross DiMattei
October 21, 2024 / 6:37 PM EDT / CBS Philadelphia

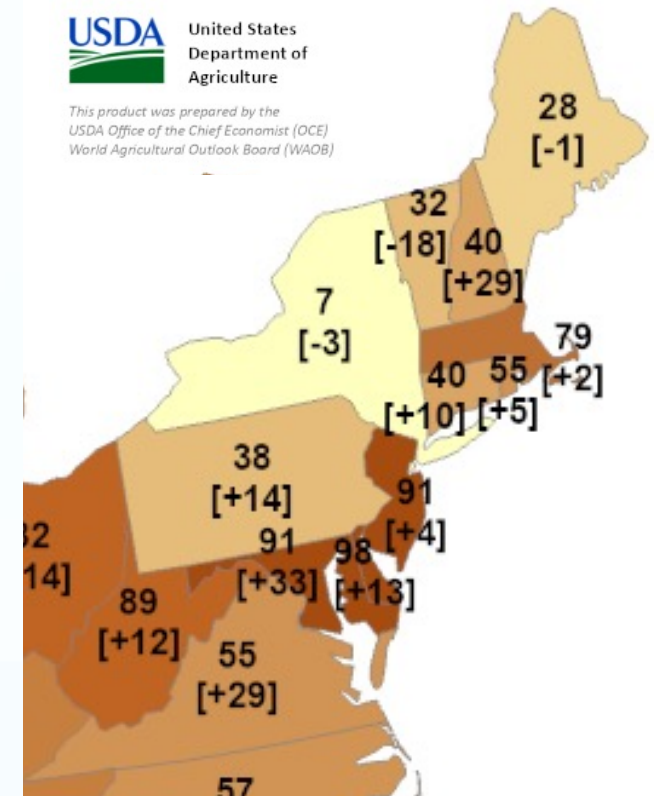


Topsoil Moisture Percent Short to Very Short Week Ending - October 27, 2024



United States
Department of
Agriculture

*This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)*

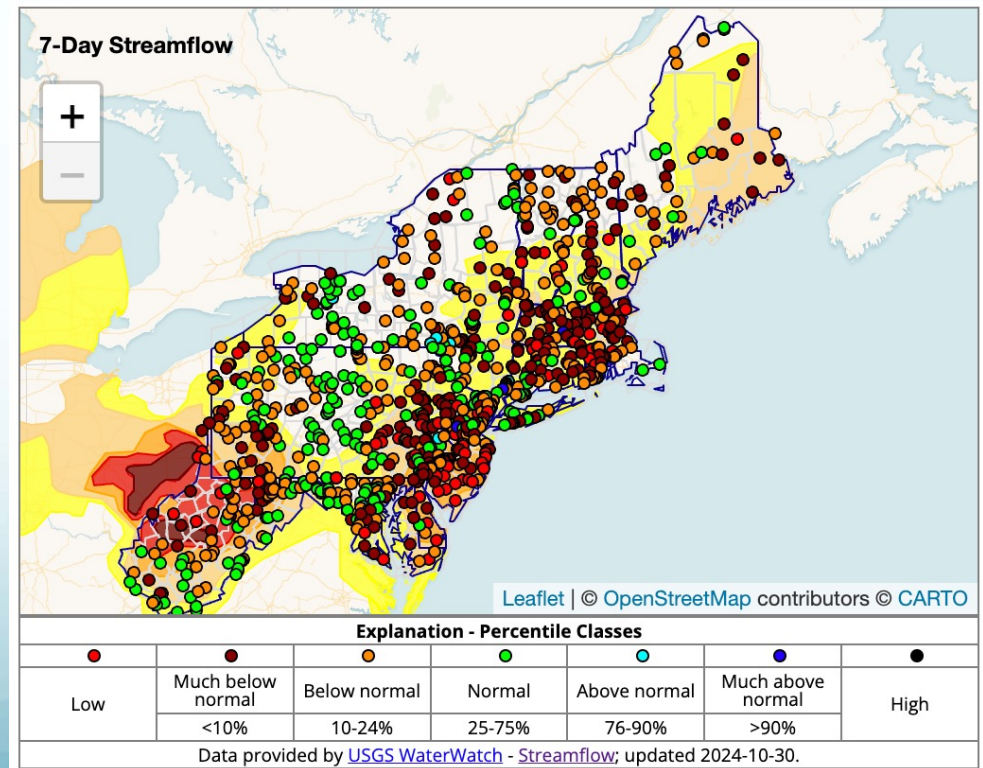
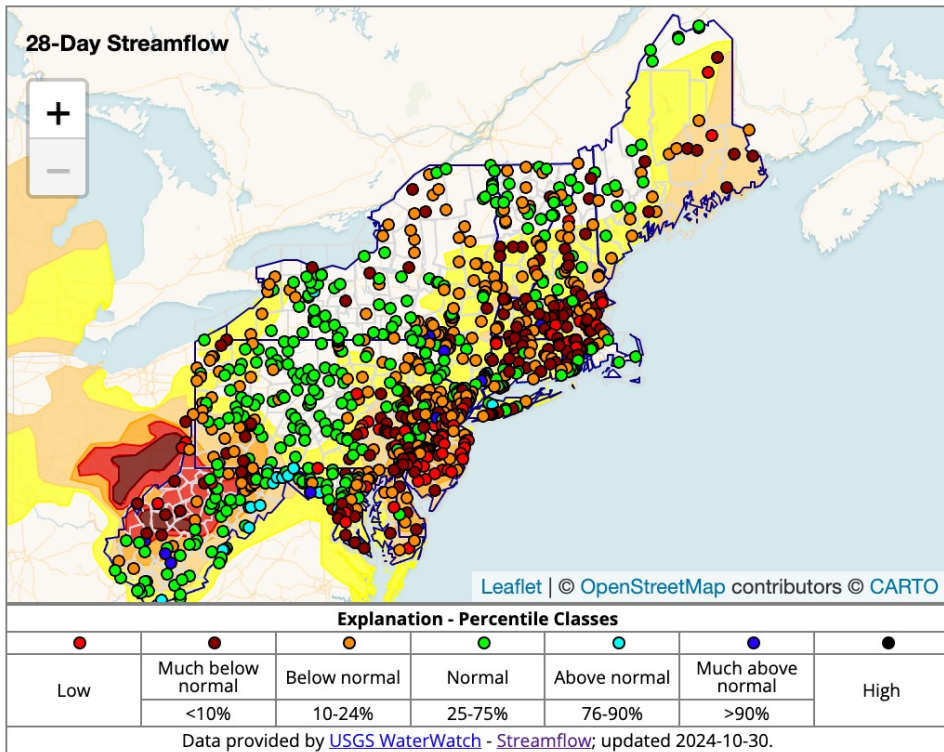


WV - CROP and LIVESTOCK CONDITIONS for week ending 10/27/24

Crop/Livestock	Very Poor	Poor	Fair	Good	Excellent
	%	%	%	%	%
Corn	24	63	13	-	-
Hay	32	66	2	-	-
Pasture	51	45	4	-	-
Soybeans	27	65	8	-	-
Cattle & Calves	9	20	55	16	-
Sheep & Lambs	7	18	57	18	-

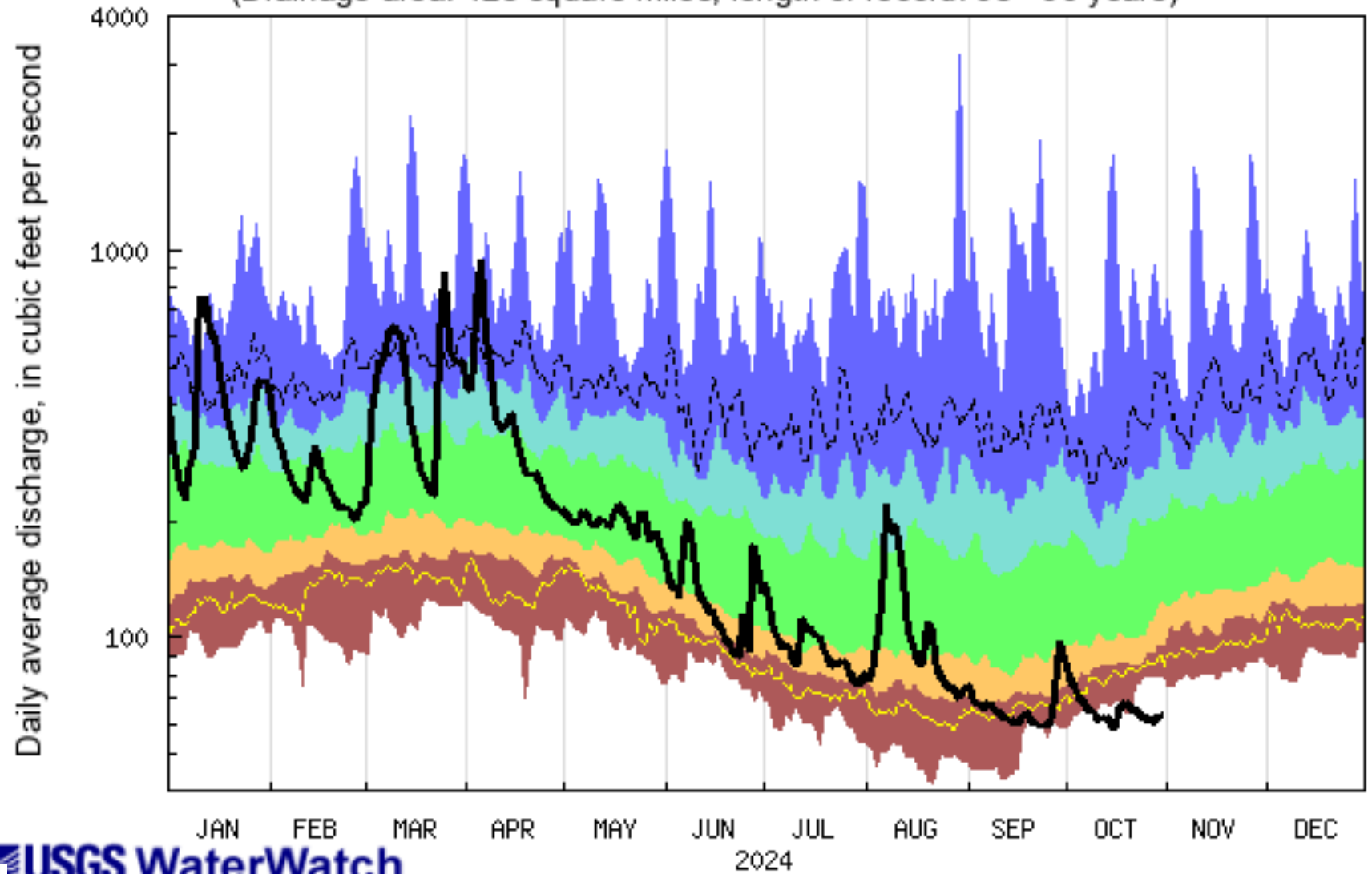
- Represents zero.

Streamflow



Streamflow

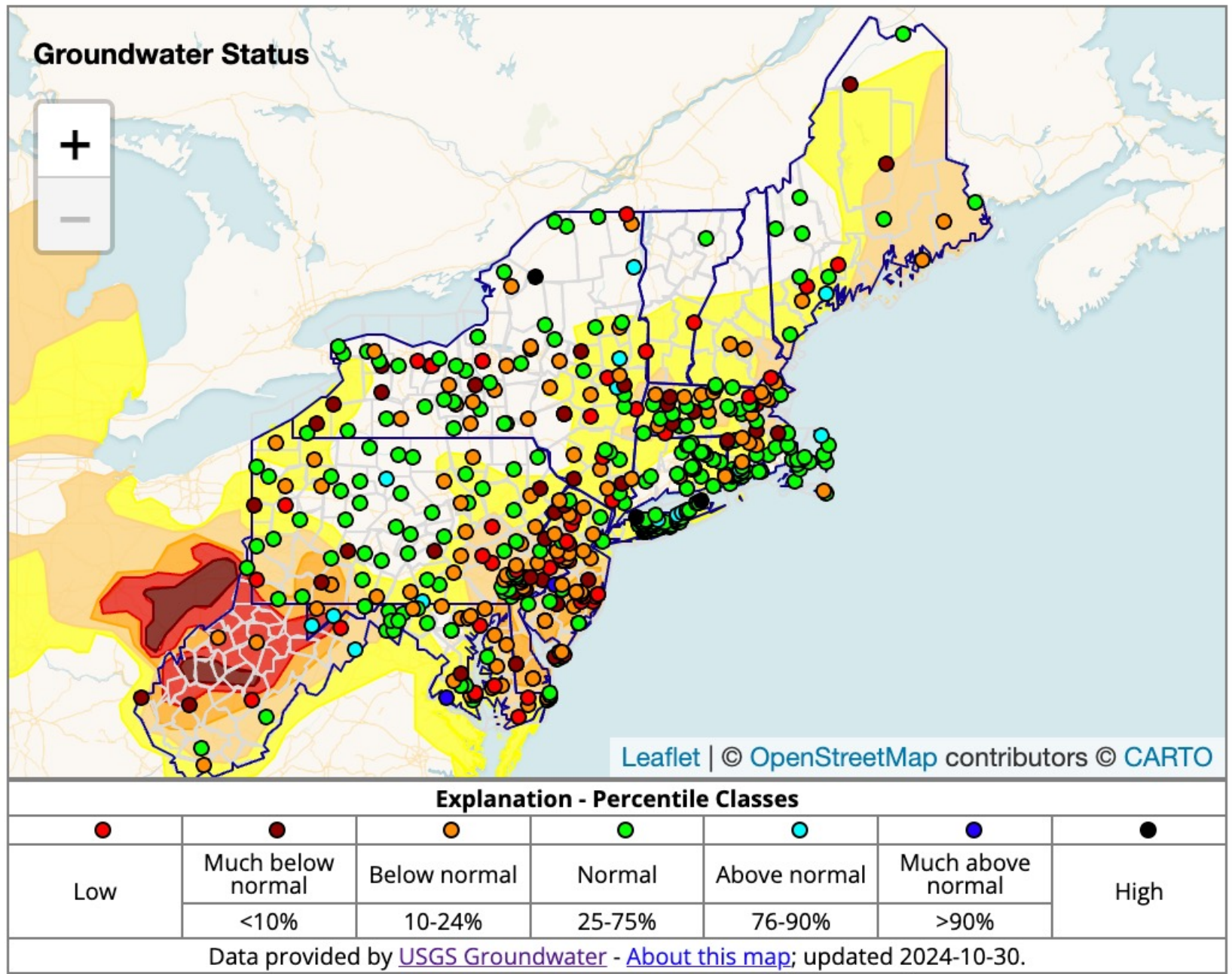
USGS 01408500 Toms River near Toms River NJ
(Drainage area: 123 square miles, length of record: 95 - 96 years)



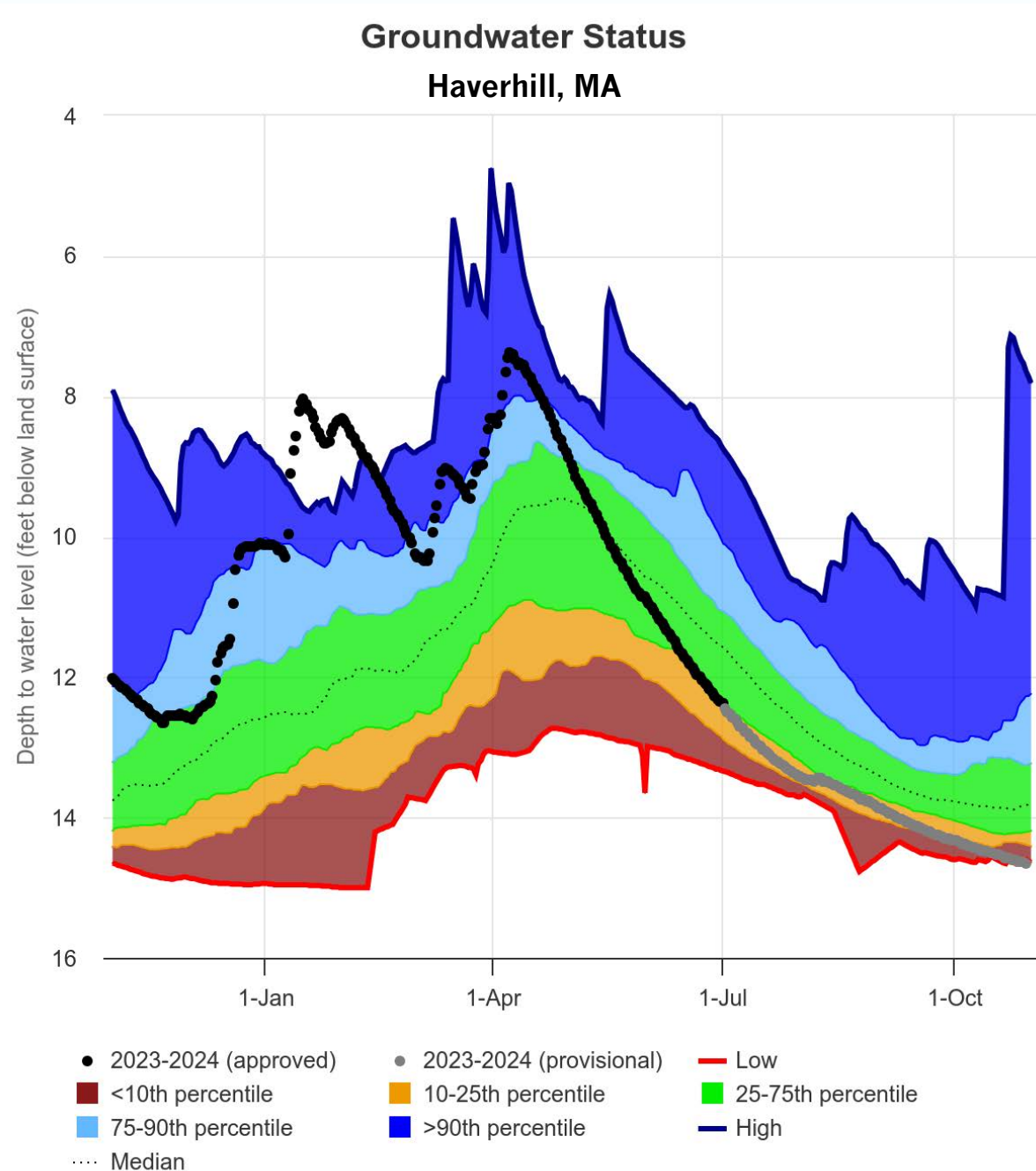
Last updated: 2024-10-31



Groundwater



Groundwater



Drought Impacts

Watering restrictions in Worcester: Mild drought hits the region



Henry Schwan

Worcester Telegram & Gazette

Published 4:58 p.m. ET Oct. 22, 2024 | Updated 6:25 a.m. ET Oct. 24, 2024

Mandatory water conservation notice issued for Reading area customers

Caitlin Rearden Oct 17, 2024 0

WFMZ

Home - Hopewell Township News

Posted on: October 25, 2024

Urgent Request for Water Conservation in Hopewell Township



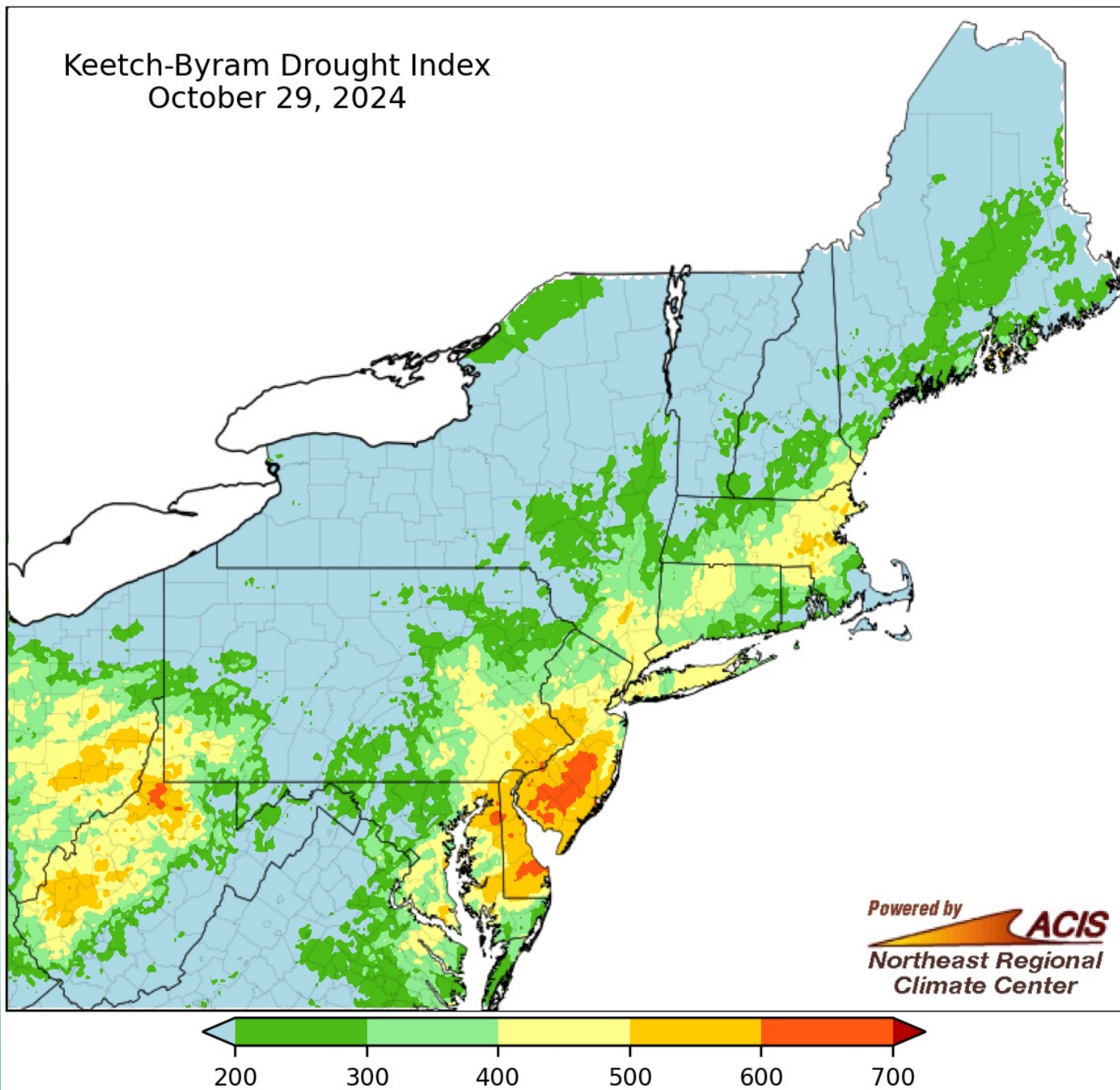
Delawareans Asked to Reduce Outdoor Water Use under Statewide Drought Watch

Sean Curtis Oct 25, 2024 Updated Oct 25, 2024

WBOC

Wildfire Risk

Keetch-Byram Drought Index
October 29, 2024



Salem HS dismissed early as dozens of brush fires bring smoky skies to state

BY STEVE COOPER, 7 NEWS WHDH

OCTOBER 29, 2024

'Severe' Drought In Montgomery County, Burn Bans In Place

Historically dry conditions, made worse by conditions fostered by climate change, has exacerbated the severe wildfire risk.



Justin Heinze, Patch Staff

Posted Mon, Oct 28, 2024 at 10:47 am ET

N.J. orders fire restrictions in all 21 counties amid worsening drought, spike in forest fires

Updated: Oct. 23, 2024, 7:10 a.m. | Published: Oct. 22, 2024, 5:03 p.m.

NJ.com

Vermont issues statewide burn ban due to high wildfire risk

Vermont Public | By Liam Elder-Connors

Published October 29, 2024 at 3:48 PM EDT

DELAWARE NEWS



Burning Ban

State Fire Marshal | Date Posted: Tuesday, October 15, 2024

Drought Impacts

Dry conditions contributed to dozens of forest fires over the weekend

WGME



NYS Department of Environmental Conservation

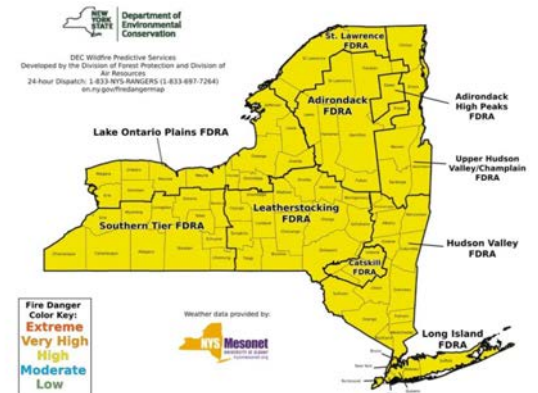
15h ·

Due to dry and windy conditions, the entire state is under 'High' fire danger conditions. Small fires can spread easily and turn into uncontrolled wildfires. If you don't have to burn, please don't. If you do, keep your fire small, and make sure it's contained to a fire pit. clear all flammable material at least three feet around the pit. All fires must be attended until out COLD.

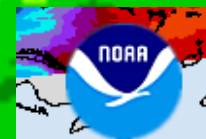
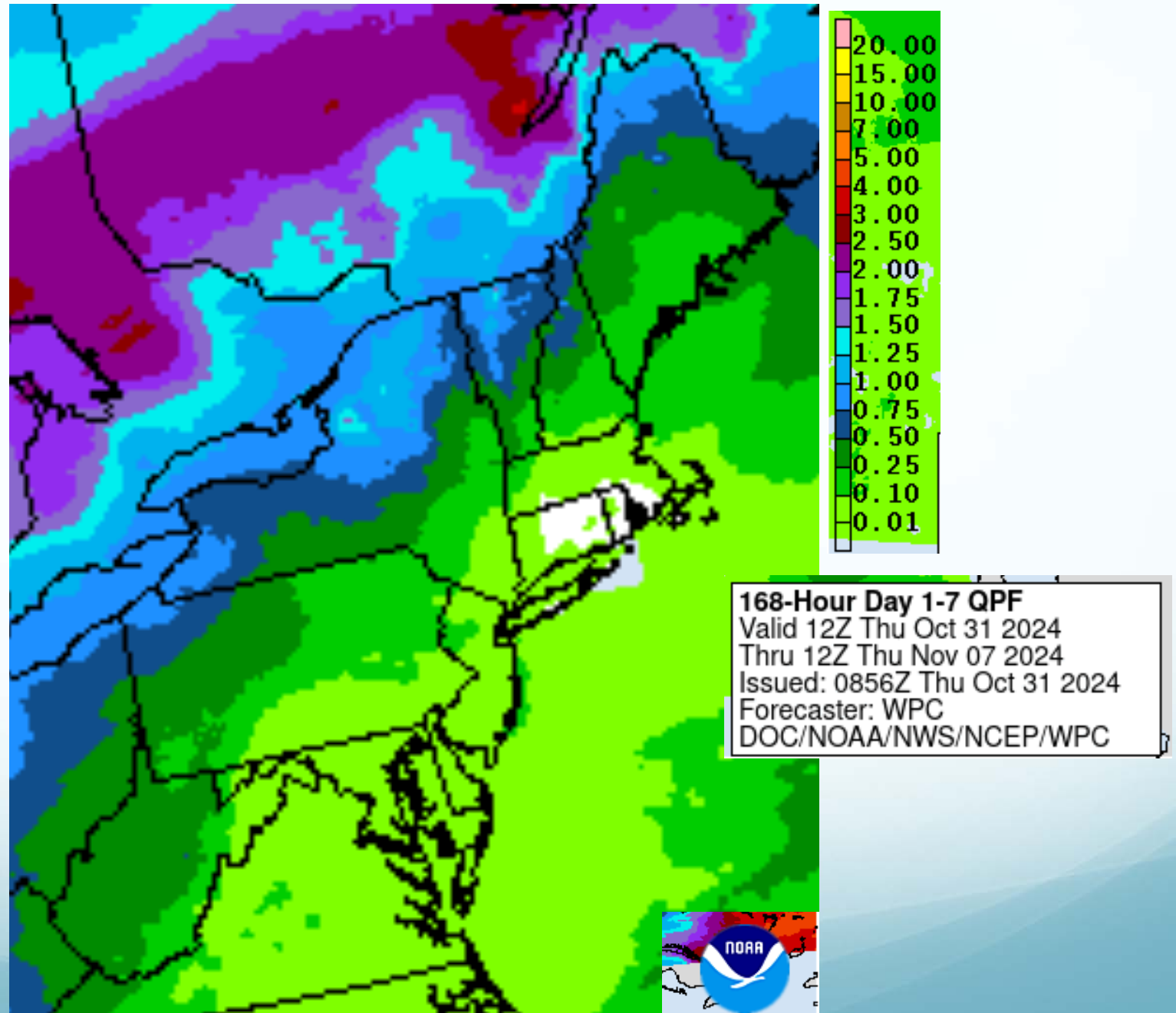
A reminder, burning garbage or leaves is prohibited year-round in New York State.

An updated fire danger map is available on the DEC website: <https://dec.ny.gov/environmental-protection/wildfires/fire-danger-map>

New York State Fire Danger Rating Area (FDRA) Risk
Valid Saturday, October 26 - Monday, October 28



Precipitation Forecast



Short-term Outlooks



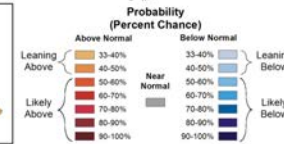
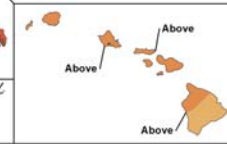
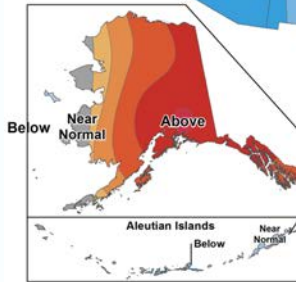
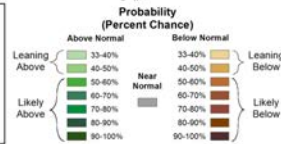
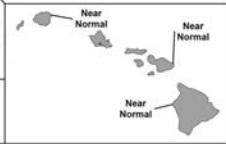
6-10 Day Precipitation Outlook

Valid: November 5 - 9, 2024
Issued: October 30, 2024



6-10 Day Temperature Outlook

Valid: November 5 - 9, 2024
Issued: October 30, 2024



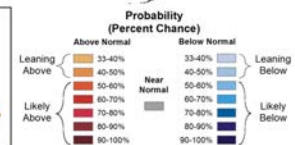
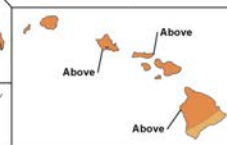
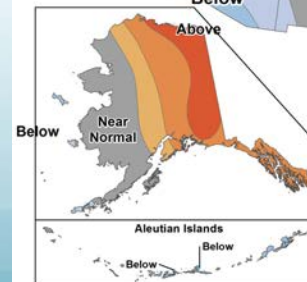
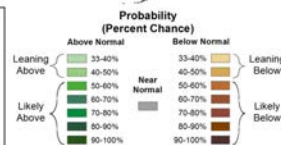
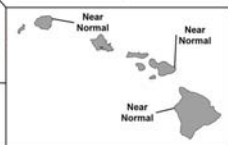
8-14 Day Precipitation Outlook

Valid: November 7 - 13, 2024
Issued: October 30, 2024

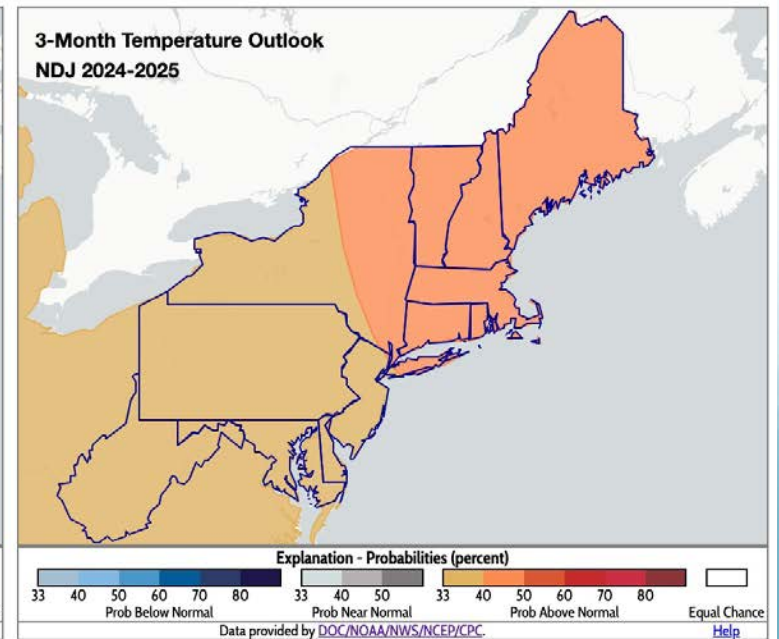
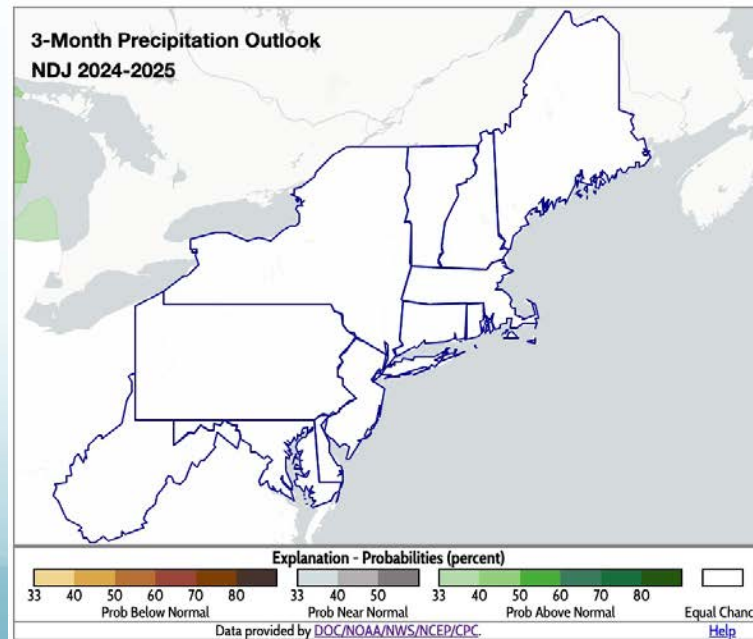
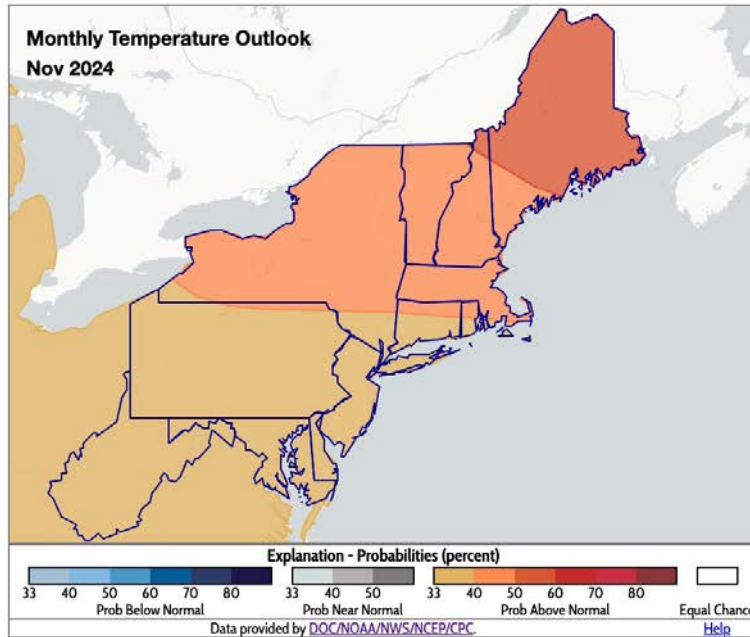
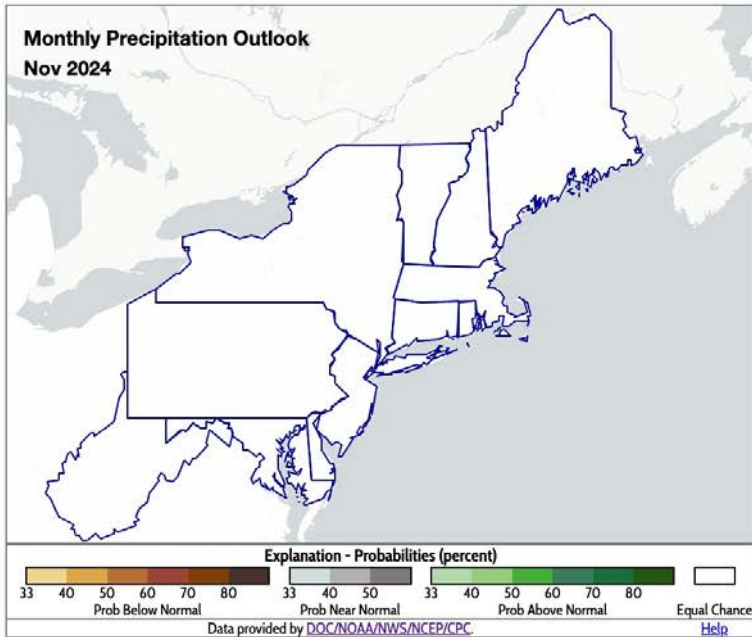


8-14 Day Temperature Outlook

Valid: November 7 - 13, 2024
Issued: October 30, 2024



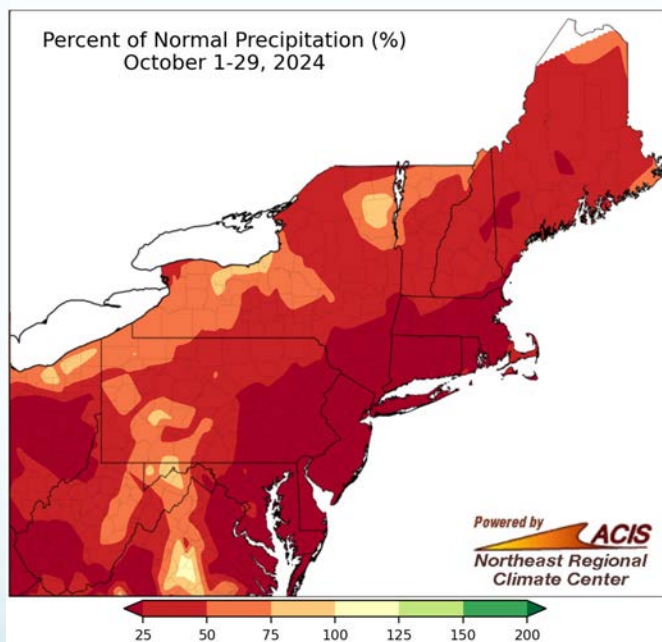
Monthly & 3-Month Outlooks



Summary

October-to-date conditions:

- Near- or above-normal temperatures
- Extremely dry month; possibly all-time record dry for some locations



Drought:

- Significant increase in drought coverage and abnormal dryness
- Drought-related impacts on crops, water levels, fire risk, etc.

Outlooks:

- Limited precipitation over the next week or two does not look good for drought relief
- Above-normal temperatures are favored for the entire region in the short term periods
- Nov and Nov-Jan: no clear indication for precipitation; above-normal temperatures expected for entire region



La Niña Outlook

La Niña Impacts and Outlook

Northeast Region

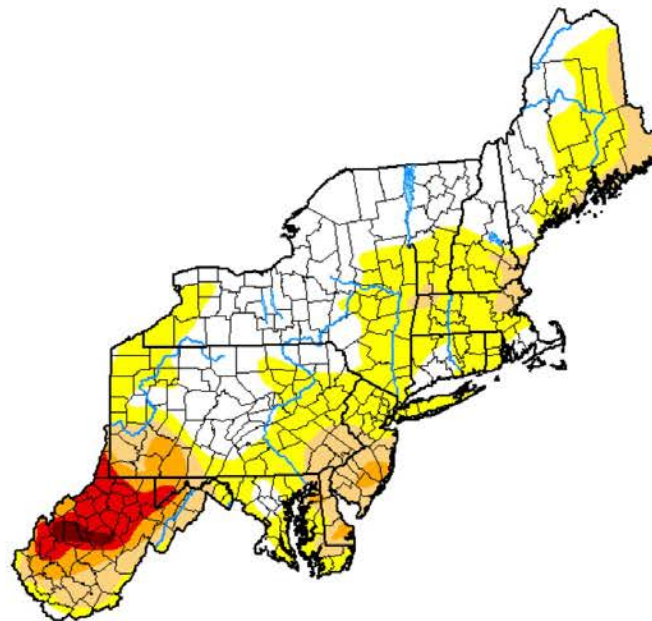
November 2024

Potential Winter Impacts

Drought Relief

With drought conditions in place in the Northeast, this winter's La Niña could have implications for precipitation patterns across the region. During La Niña episodes, the Ohio Valley tends to be wetter, with the signal most pronounced during the three-month period of [February through April](#). If this pattern of increased precipitation were to emerge, it would be beneficial for easing drought conditions in areas such as West Virginia and southwestern Pennsylvania. Conversely, portions of eastern Maryland, Delaware, eastern Pennsylvania, and New Jersey experiencing drought could see dry conditions persist as southeastern parts of the region tend to be drier than normal

U.S. Drought Monitor Northeast



October 15, 2024

(Released Thursday, Oct. 17, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	39.19	37.50	13.59	4.90	4.14	0.67
Last Week 10-08-2024	41.17	37.40	12.32	4.30	4.14	0.67
3 Months Ago 07-16-2024	61.64	18.98	10.31	7.33	1.73	0.00
Start of Calendar Year 01-01-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 10-01-2024	45.94	34.77	9.37	4.97	4.27	0.67
One Year Ago 10-17-2023	83.01	14.48	2.24	0.27	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate 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:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

< Jump To >



<https://lanina.nrcc.cornell.edu/>

Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, November 21 at 9:30am EST
 - Use of NOAA Radar Data to Analyze Extreme Precip
- Thursday, December 19 at 9:30am EST
 - ENSO & Winter Outlook
- Thursday, January 30 at 9:30am EST
 - TBD



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