

2025 Spring Fire Weather Outlook





Brooke Taber WFO BTV 7 April 2025

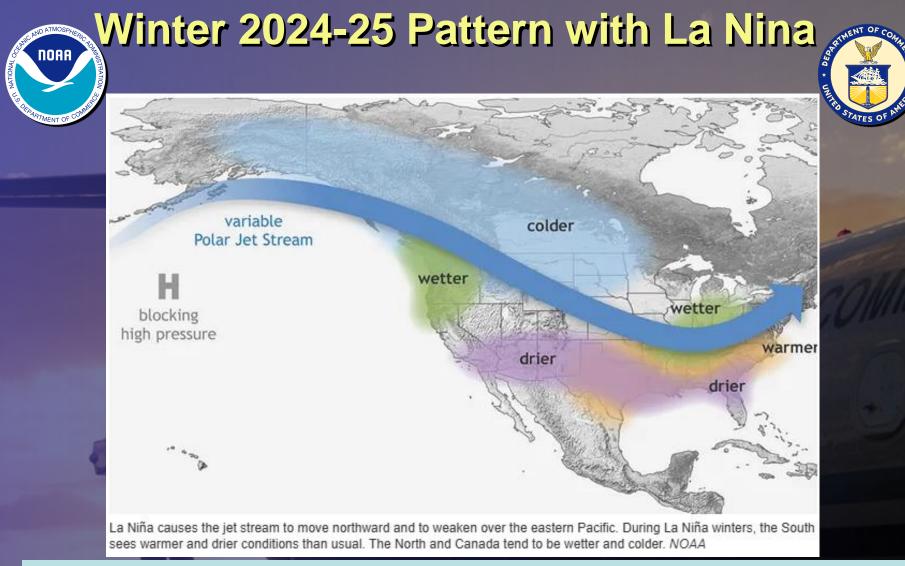






Winter 2024-25 Pattern
Precipitation and snowfall totals to date
Precipitation and temperature outlooks
Drought Monitor and Predictive Services Outlook
2025 Fire Weather Outlook

Perry Basin Prescribed Burn 04/26/24



Jet Stream

- Fast ribbon of air 25,000 to 35,000 feet above surface
- Divides warm air to the south and cool air to the north
- Helps in the development and track of cyclones



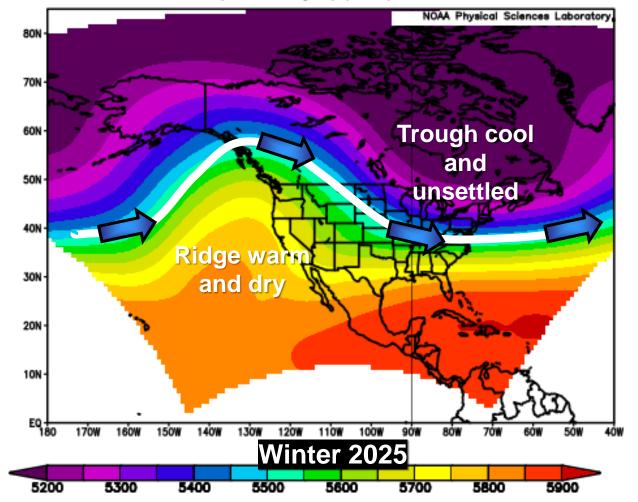
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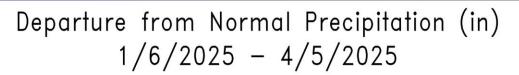
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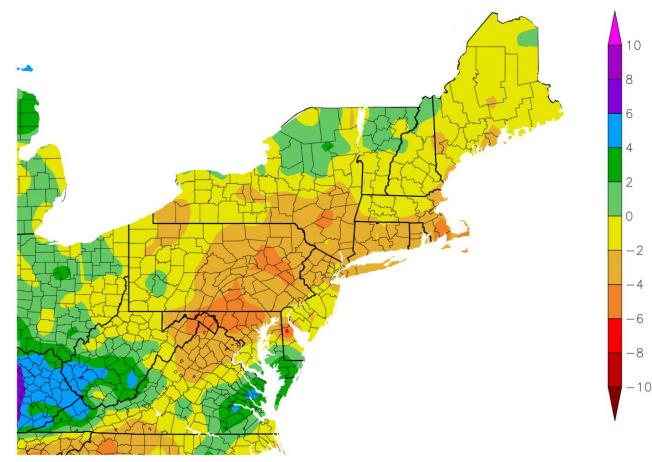


NCEP North American Regional Reanalysis Geopotential Height (m) Composite Mean



Precipitation Totals and Departures Last 90 Days https://hprcc.unl.edu/







Drought Monitor



Northeast

Already above normal fire activity across portions of southern New England and the Mid Atlantic, associated with severe drought

Map released: Thurs. April 3, 2025

Data valid: April 1, 2025 at 8 a.m. EDT

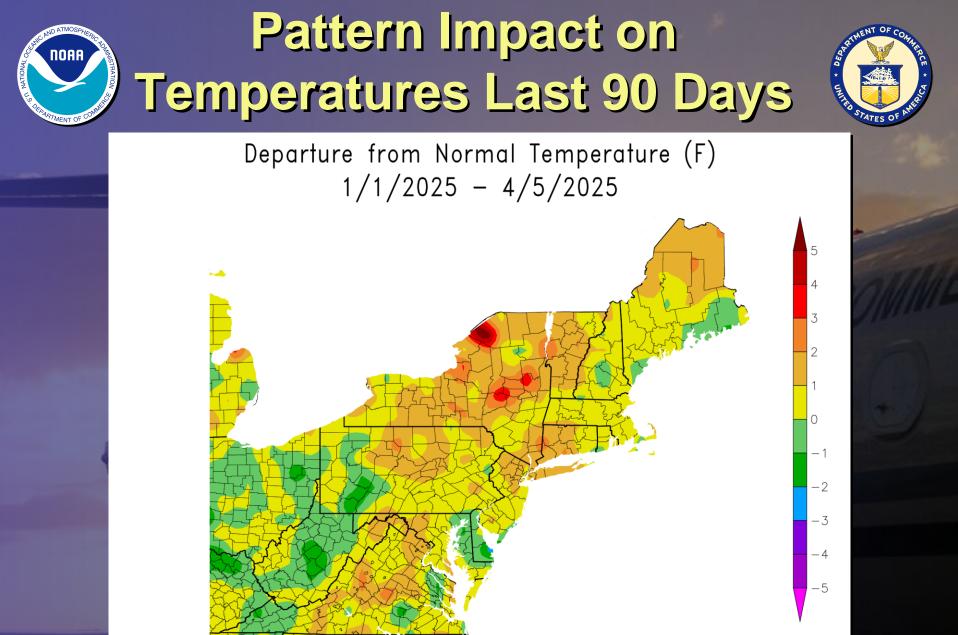
Intensity



Authors

United States and Puerto Rico Author(s): David Simeral, Western Regional Climate

Pacific Islands and Virgin Islands Author(s): Anthony Artusa, NOAA/NWS/NCEP/CPC

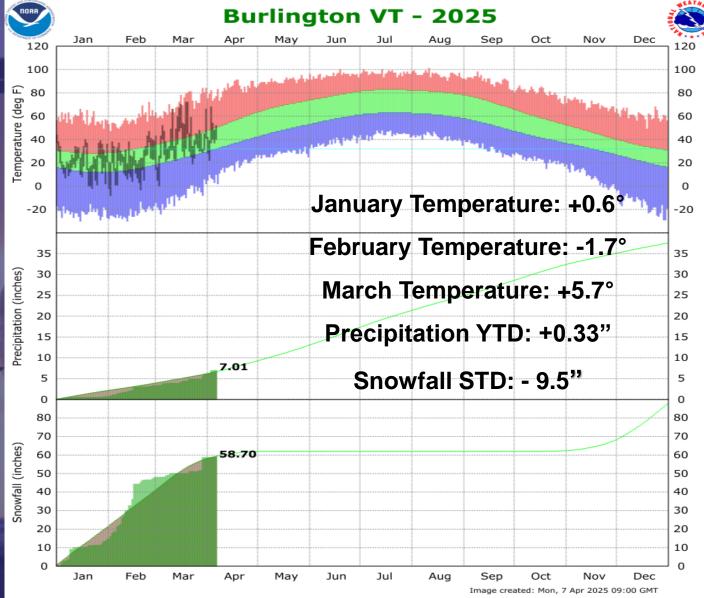


Generated 4/6/2025 at HPRCC using provisional data.

Burlington Temperature/Precipitation and Snowfall for 2025

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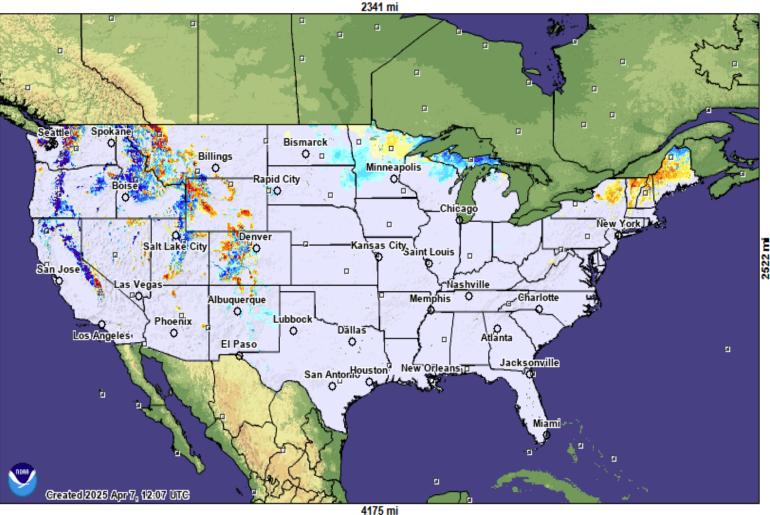


2522 mi

Pattern Impact on Snow Coverage as of 7 April 2025 https://www.nohrsc.noaa.gov/



Modeled Snow Depth Departure from Normal (Daily) for 2025 April 7, 6:00 UTC





Inches of depth

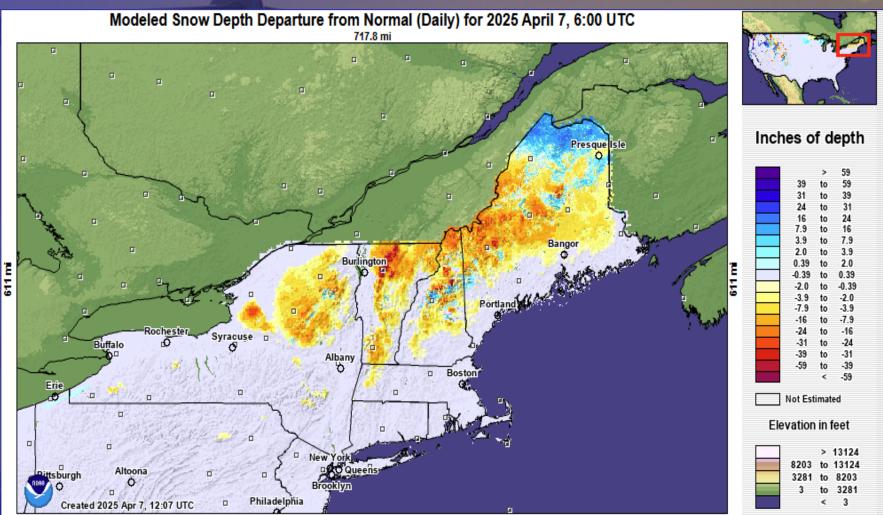
		>	59
	39	to	59
	31	to	39
	24	to	31
	16	to	24
	7.9	to	16
	3.9	to	7.9
	2.0	to	3.9
	0.39	to	2.0
	-0.39	to	0.39
	-2.0	to	-0.39
	-3.9	to	-2.0
	-7.9	to	-3.9
	-16	to	-7.9
	-24	to	-16
	-31	to	-24
	-39	to	-31
	-59	to	-39
		<	-59
	Not Est	imat	ed
Ele	evation	in f	feet
		>	13124
	8203	to	13124
	3281	to	
_			0000

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Northeast Snow Depth as of 7 April 2025 https://www.nohrsc.noaa.gov/



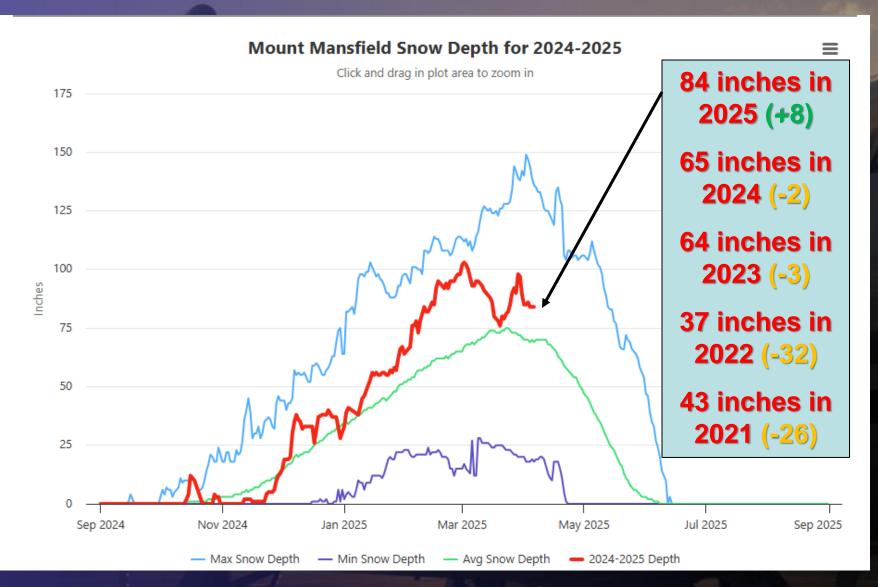


835 mi



Snow Depth at Mount Mansfield in 2025 vs. Average



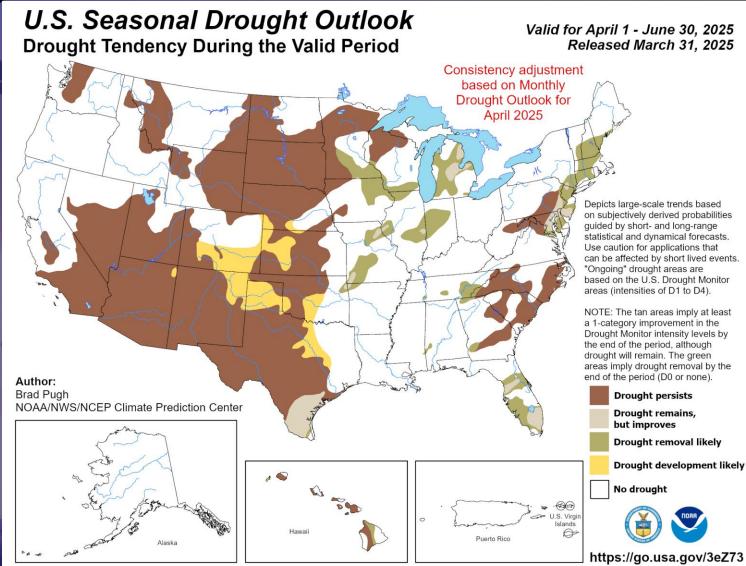


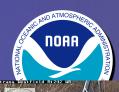
Seasonal Drought Outlook

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Web Cam Pictures as of April 7, 2025

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Monday, April 7, 2025 8:54:36 AM

04/07/25 12:44Z

Montpelier, VT

Canaan, VT Monday, April 7, 2025 8:57:32 AM 16

Jericho, VT

Monday Apr 07, 2025 08:55:0



2024-2025 Winter to Date



Near normal temperatures for winter of 2025, but much cooler than previous winter of 2024.

- Precipitation near normal to below normal by 1 to 3 inches in a few spots.
- Snowfall near normal in the valley and above normal at summits with no big warm ups and melts this winter.
- Significant pattern change occurring for March with above normal temperatures and precipitation expected.



Outlook/Predictions



8 to 14 Day Outlook
Monthly Outlook
Spring Outlook/Predictive Services
My Thoughts



8 to 14 Day Outlook

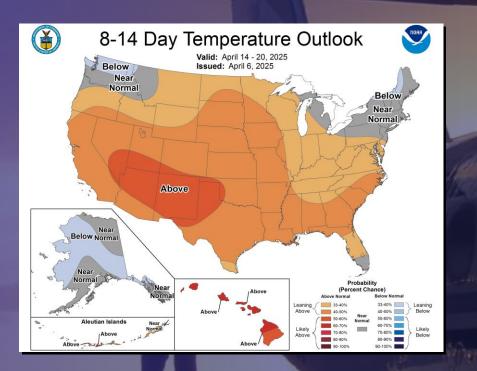
https://www.cpc.ncep.noaa.gov/

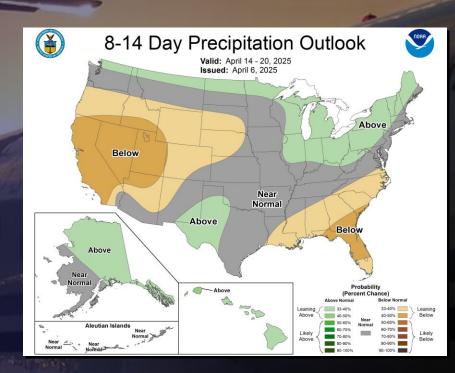
Temperature

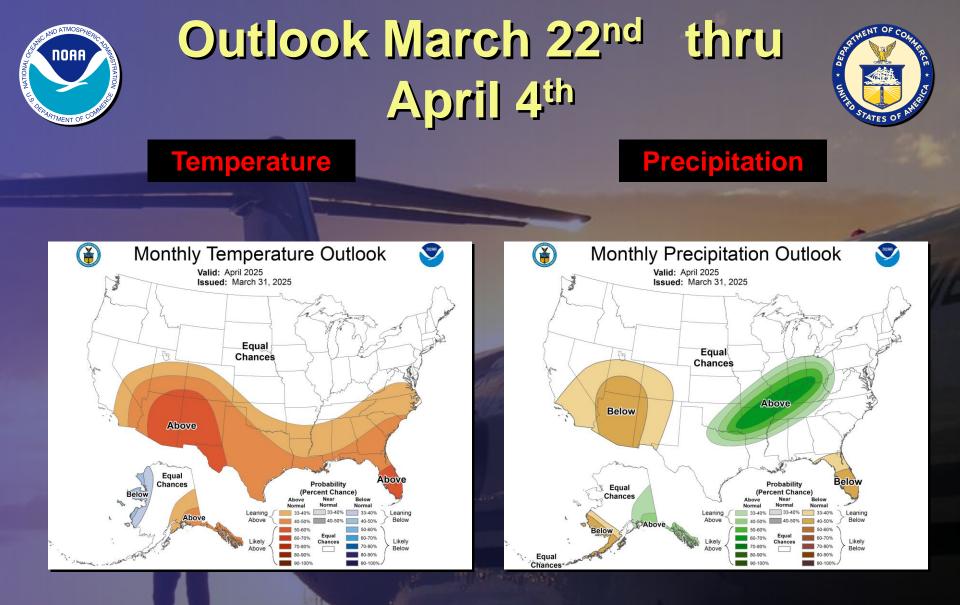
Precipitation

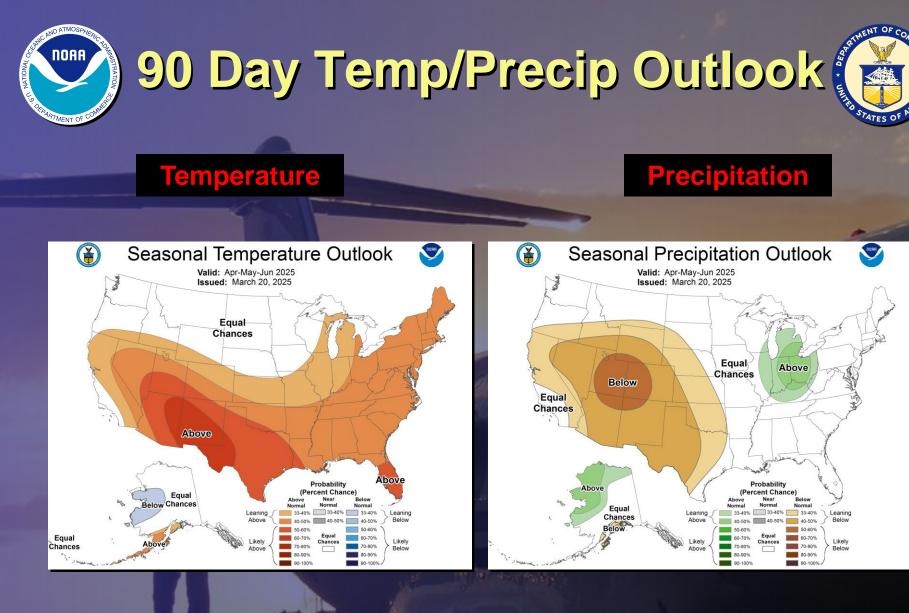
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Significant Wildland Fire Potential Outlook for April, May & June 2025



Above normal significant wildland fire potential indicates a greater than usual likelihood that significant wildland fires will occur. Significant wildland fires should be expected at typical times and intervals during normal significant wildland fire potential conditions. Significant wildland fires are still possible but less likely than usual during forecasted below normal periods.

NOAA

Issued April 1, 2025 Next issuance May 1, 2025

2025 Fire Weather Outlook



- Snow pack near normal valleys and above normal summits.
- Precipitation is near normal across northern New York and Vermont year to date ****Outlook for the Spring of 2025****
- Near to above normal precipitation and above normal temperatures for Spring of 2025
- Slightly below normal fire activity expected this spring as we transition from La Nina to Neutral (Similar to Spring of 2018 and snowpack similar to 2019)
 - Results in several active days possible from April into early May (south to north as snow melts/fuels dry)
- Higher potential for above normal activity southwest United States and central Rockies



2025 Fire Weather Outlook



- Much above normal fire activity for Fall of 2024
- Due areas of moderate drought, especially central/southern parts of the state
- In spring 2018, the La Niña conditions during the winter weaken and transition to ENSOneutral, leading to warmer-thantemperatures and above normal precipitation
- Snow pack is similar to 2019, but rapidly decreasing given significant pattern change

Fire Statistics for 2024					
FIRE CAUSE	NUMBER OF FIRES	TOTAL ACRES			
Human Caused Fires	78	150.8			
Undetermined Fires (Natural or Human)	19	29.6			
Lightning Caused Fires	2	0.2			
Totals	99	180.6			

10-Year	Average
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Year	# Fires	# Acres	Average Size	
2015	123	394	3.2	
2016	141	389	2.76	
2017	51	40	1	
2018	59	113	1.92	
2019	15	22	1.47	
2020	96	133	1.43	
2021	96	157	1.63	
2022	71	72	1.02	
2023	63	59	0.93	
2024	99	180.6	1.87	
10-Yr Average	81.1	156.7	1.72	



Useful Websites



- Climate Prediction Center for Precipitation, Temperature Outlooks and Drought Outlooks
 - https://www.cpc.ncep.noaa.gov/
- Precipitation Maps
 - https://water.weather.gov/precip/
- Interactive Temperature and Precipitation Maps
 - https://hprcc.unl.edu/maps.php?map=ACISClimateMaps
- Snowfall Maps
 - https://www.nohrsc.noaa.gov/interactive/html/map.html
- Precipitation Maps
 - https://www.weather.gov/nerfc/watersupply
- WFO Burlington Fire Weather Website
 - https://www.weather.gov/btv/firewx