NWS Form E-5 (04-2006) NATIONAL OCEAN (PRES. BY NWS Instruction 10-924)		U.S. DEPARTMENT OF COMM		HYDROLOGIC SERVICE AREA (HSA) Burlington VT	
		NATIONAL WEATHER SERVICE			
MONTHLY REPORT OF HYDR		ROLOGIC CONDITIONS	REPORT FOR: MONTH	YEAR	
			February	2025	
то.	Hydrologic Information Center, W/OS31		SIGNATURE		
TO:	NOAA's National We		Adrianna K	Adrianna Kremer / Meteorologist	
	1325 East West Highway Silver Spring, MD 20910-3283		DATE		
		910-3283	Ма	March 13, 2025	

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

## Overview

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Overall, February 2024 was a relatively quiet month from a hydrological perspective in the NWS Burlington HSA. Monthly precipitation totals generally between 1.5 to 5.0 inches with some slight variability (Fig 1). On average, these values were near to above normal, with much of northern New York observing positive precipitation departures of 0.5 to 2.0 inches, while precipitation departures across Vermont generally ranged from -0.5 to +1.0 inches (Fig.2). February was a snowy month across the region, with locations receiving anywhere from 18 to 60 inches of snow, with the highest amounts across the Adirondacks and northern Green Mountains (Fig.3). Most locations observed near normal to well above normal snowfall with positive departures of 12 inches or greater across much of the region (Fig. 4). It was a relatively cold month, with most locations near or a few degrees below normal (Fig. 5). These seasonably cold temperatures helped develop extensive river ice across area rivers throughout the first half of the month, although no ice jams were observed. Despite all of the precipitation this month, there was no change to the areas of D0 and D1 across the HSA per the U.S. Drought Monitor (Fig.6).

## **Notable Hydrology**

The most notable event of February 2025 was a strong winter storm that took place during the 15<sup>th</sup> and 16<sup>th</sup> as a strong surface low crossed the Ohio River Valley. This system brought widespread snowfall amounts of 9 to 16 inches, with locally higher amounts across the northern tier of the HSA (Fig.7). This event was the biggest snowfall event of the 2024-2025 Winter Season, where most of the season's snowfall has consisted of clipper systems producing quick bursts of snow, lake effect snow showers, or regional upslope snow showers across favored mountain slopes. This was the biggest hydrological/snow event for the month, with no flooding or hydrological concerns observed.

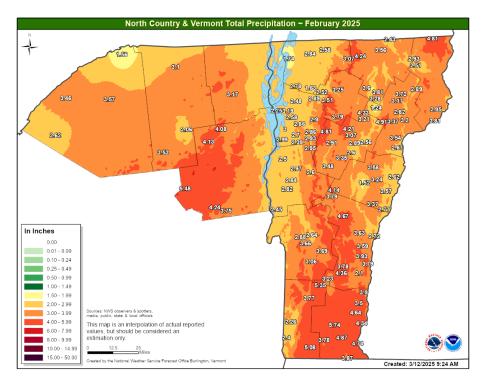


Figure 1: February 2025 monthly precipitation across the NWS Burlington, VT HSA. On average, amounts between 1.5 to 5.0 inches were observed. Highest totals occurred across the higher elevations, while the lower amounts occurred in the valleys.

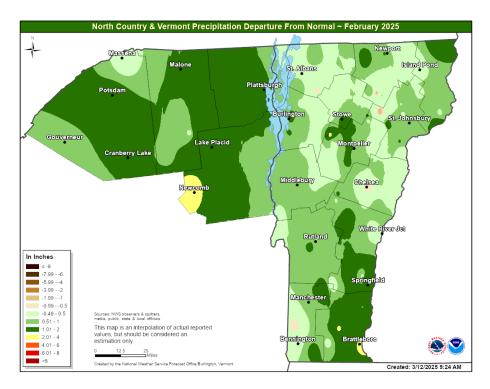


Figure 2: February 2025 monthly precipitation departures from normal across the NWS Burlington, VT HSA. On average, positive precipitation departures of 0.5 to 2.0 inches occurred across the area, with the values seen across northern New York.

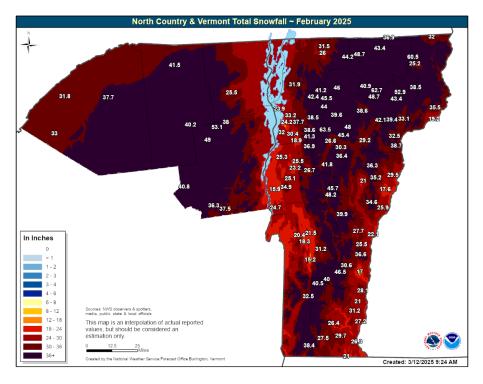


Figure 3: February 2025 total snowfall across the NWS Burlington, VT HSA. On average, amounts between 18 to 60 inches were observed, with the greatest amounts across the Adirondacks and northern Green Mountains.

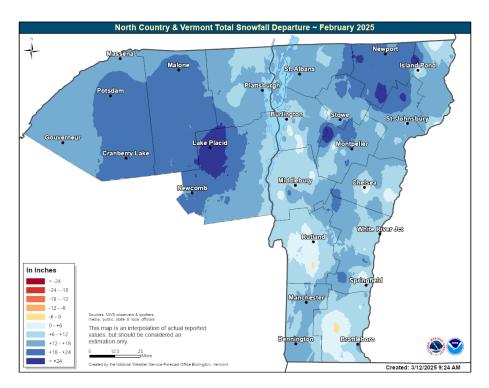


Figure 4: February 2025 snowfall departure from normal across the NWS Burlington, VT HSA. Most locations saw near to well above normal snowfall, with many locations seeing 12+ inches above normal.

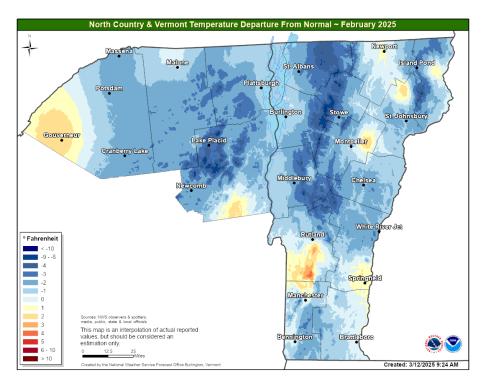


Figure 5: February 2025 temperature departure from normal across the NWS Burlington, VT HSA. It was a relatively cold month with most locations observing temperatures near or below normal.

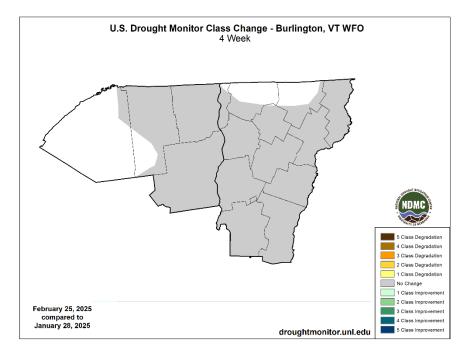


Figure 6: U.S Drought Monitor 4-week Class Change across the NWS Burlington, VT HSA. No change was observed in the D0 and D1 conditions across the region.

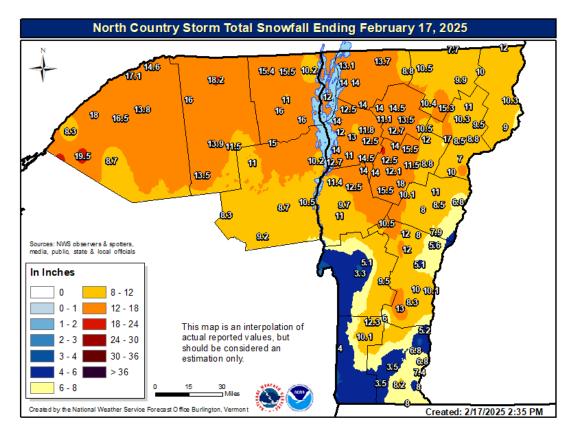


Figure 7: Snowfall totals across the NWS Burlington, VT HSA from February 15<sup>th</sup> and 16<sup>th</sup> snowfall event. Many locations received over a foot of snow, with locally higher amounts across northern New York.