

when a debris jam released, and the other in Lyndon, VT when someone drove around flood barricades. Numerous flood warnings were issued during this event.

The second notable event occurred later in the month, during the overnight hours from the 29th into the 30th. A nearly stationary band of showers and thunderstorms, associated with a departing upper low, light flow, and ample moisture, brought several inches to portions of the Northeast Kingdom over approximately 5 hours. High rainfall rates and the nearly stationary nature of these storms lead to extreme rainfall totals of 3 to 7 inches, with 7.30 inches in East Brighton, and 8.41 inches in St Johnsbury (CoCoRaHs). (Fig 7) The official Cooperative Observer in St Johnsbury reported a 24-hour total of 8.08 inches, the highest 24-hour total ever recorded at that site. Records there go back to 1894. The result of this extreme rainfall was catastrophic flash flooding, particularly in Lyndon, Morgan, and St. Johnsbury. Several rounds of increasingly dire Flash Flood Warnings were issued, ultimately ending in a Flash Flood Emergency. Although many roads, bridges, and buildings were damaged or destroyed, there were no fatalities. (Fig 8)

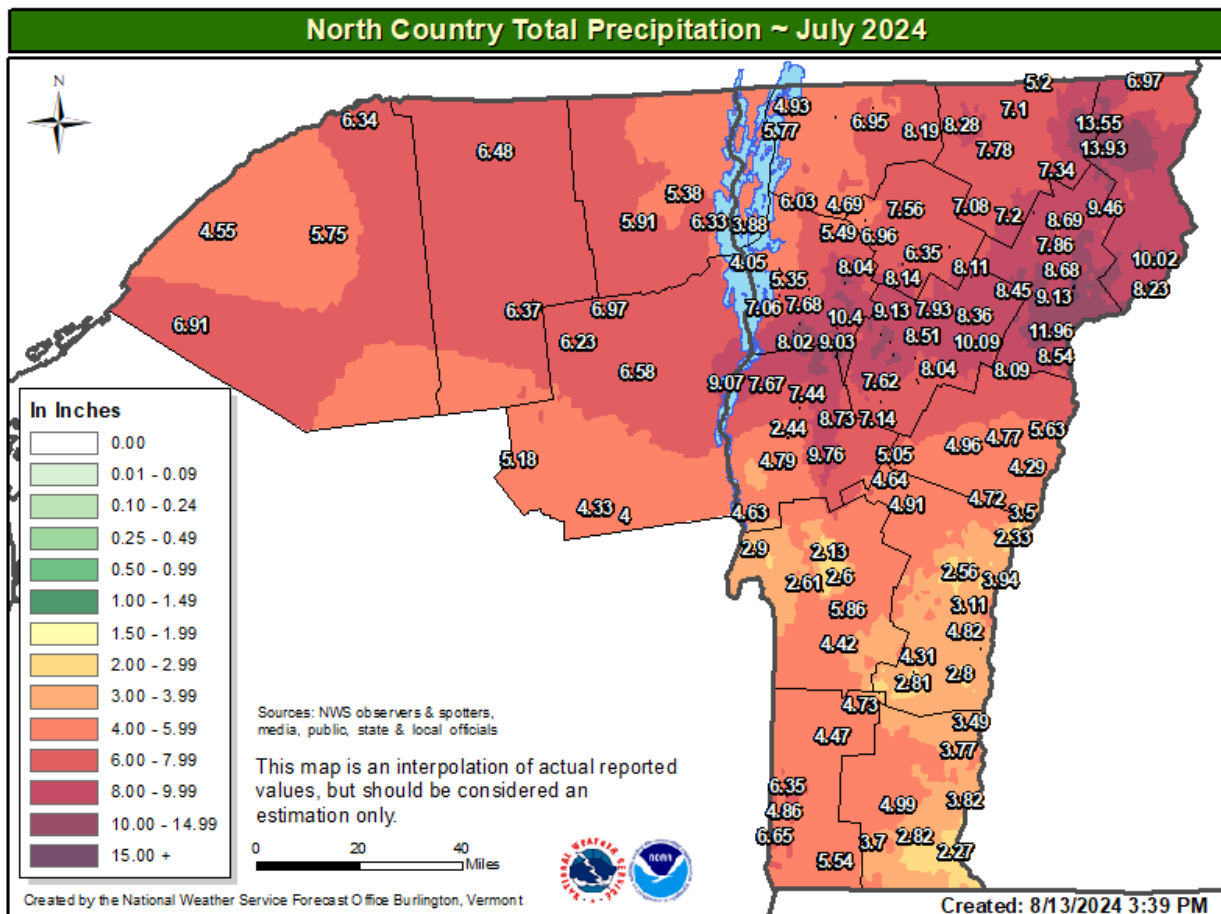


Figure 1: July 2024 precipitation across the NWS Burlington, HSA.

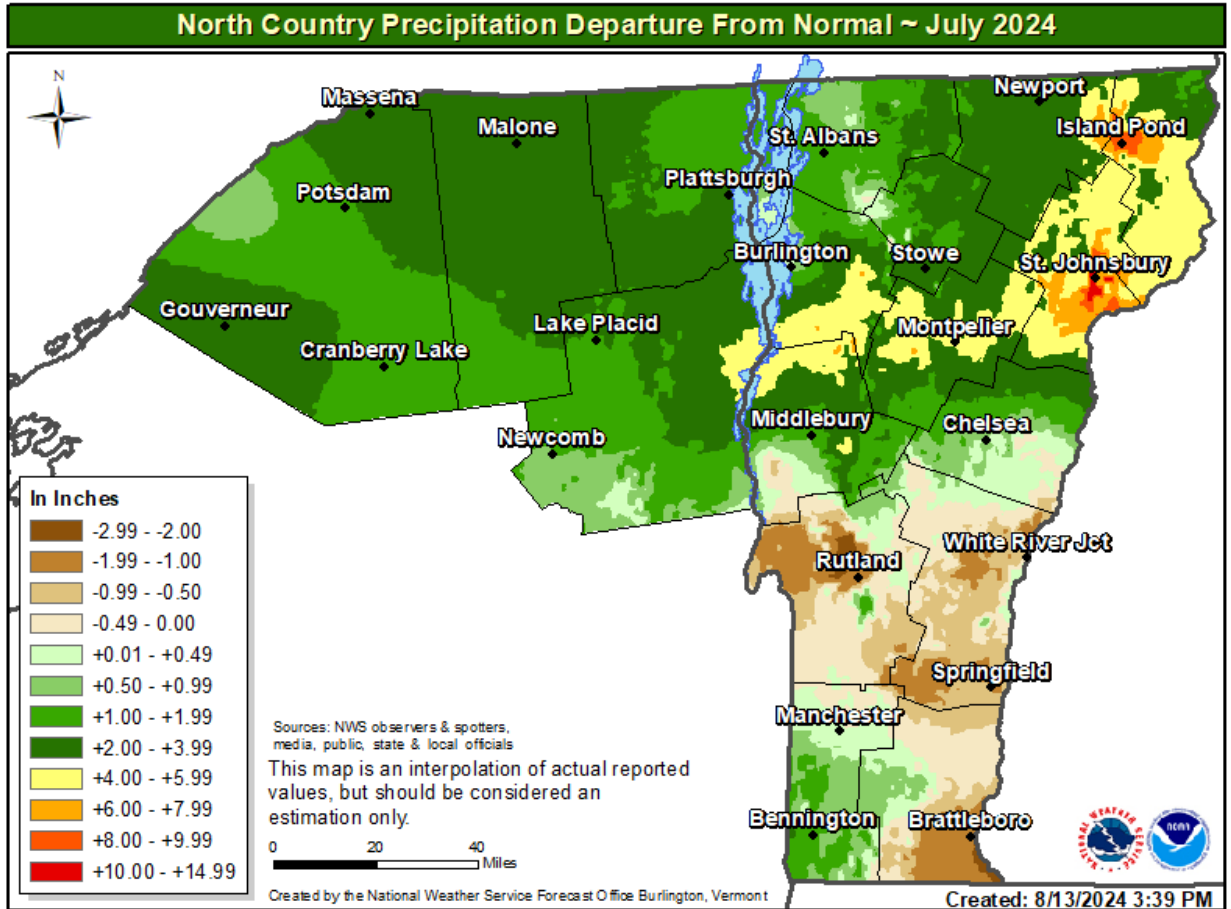
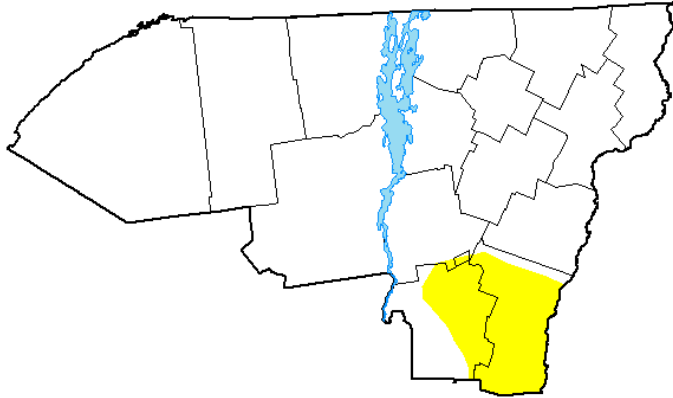


Figure 2: July 2024 precipitation departures across the NWS Burlington HSA.

U.S. Drought Monitor Burlington, VT WFO

July 30, 2024
(Released Thursday, Aug. 1, 2024)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	91.20	8.80	0.00	0.00	0.00	0.00
Last Week <i>07-23-2024</i>	91.20	8.80	0.00	0.00	0.00	0.00
3 Months Ago <i>04-30-2024</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2024</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year <i>09-26-2023</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>08-01-2023</i>	100.00	0.00	0.00	0.00	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>

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droughtmonitor.unl.edu

Figure 3: US Drought Monitor Map for week of July 30, 2024 showing abnormal dryness, or D0 conditions persisting across southern and eastern Vermont counties of the NWS Burlington HSA.

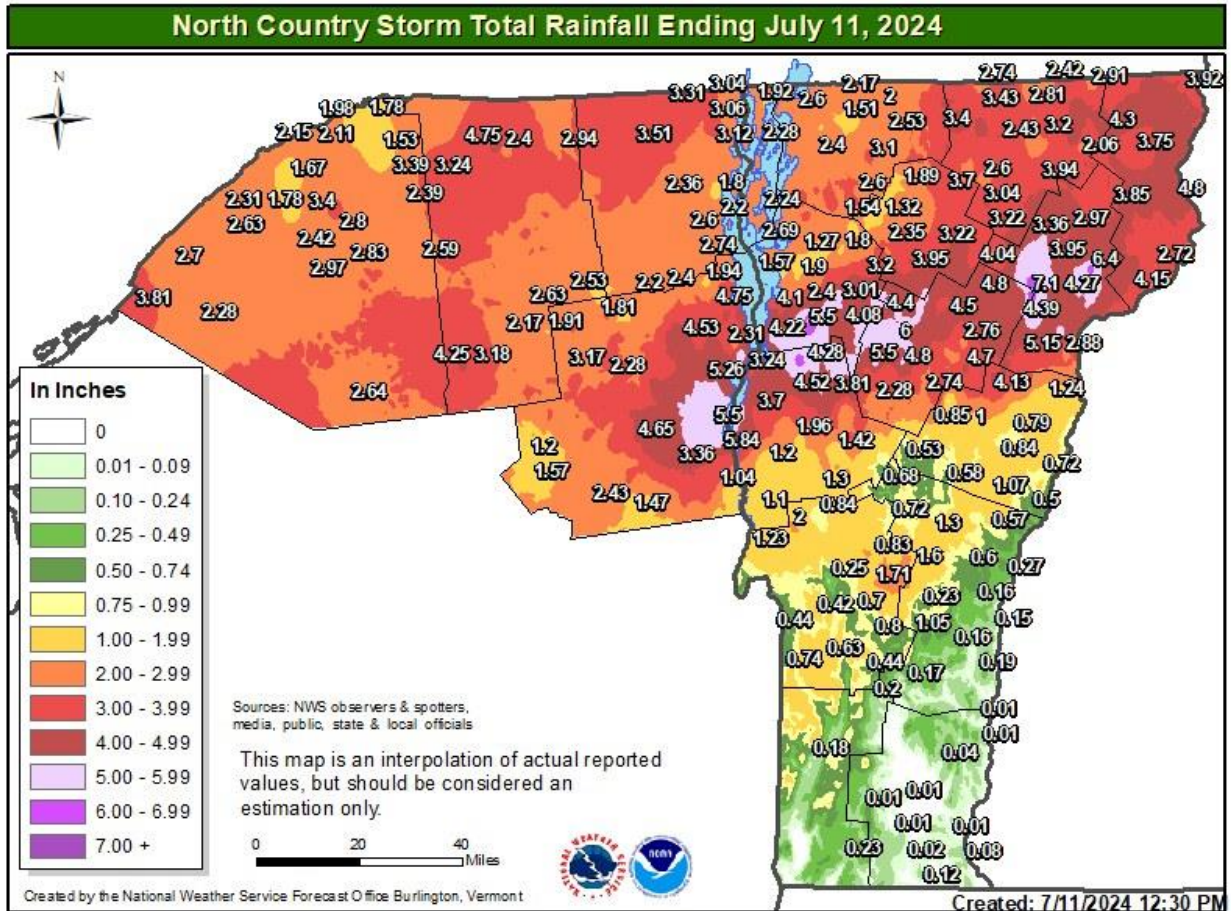


Figure 4: Storm total rainfall for July 10-11, 2024. Excessive rainfall totals of 3 to 7 inches on led to areas of significant flash flooding across portions of north central Vermont.



Figure 5: Significant flash flooding late on July 10 led to catastrophic damage in the Plainfield, VT area, including this apartment building that was almost completely washed away by the Great Brook.



Figure 6: Catastrophic Flooding in Downtown Barnet.

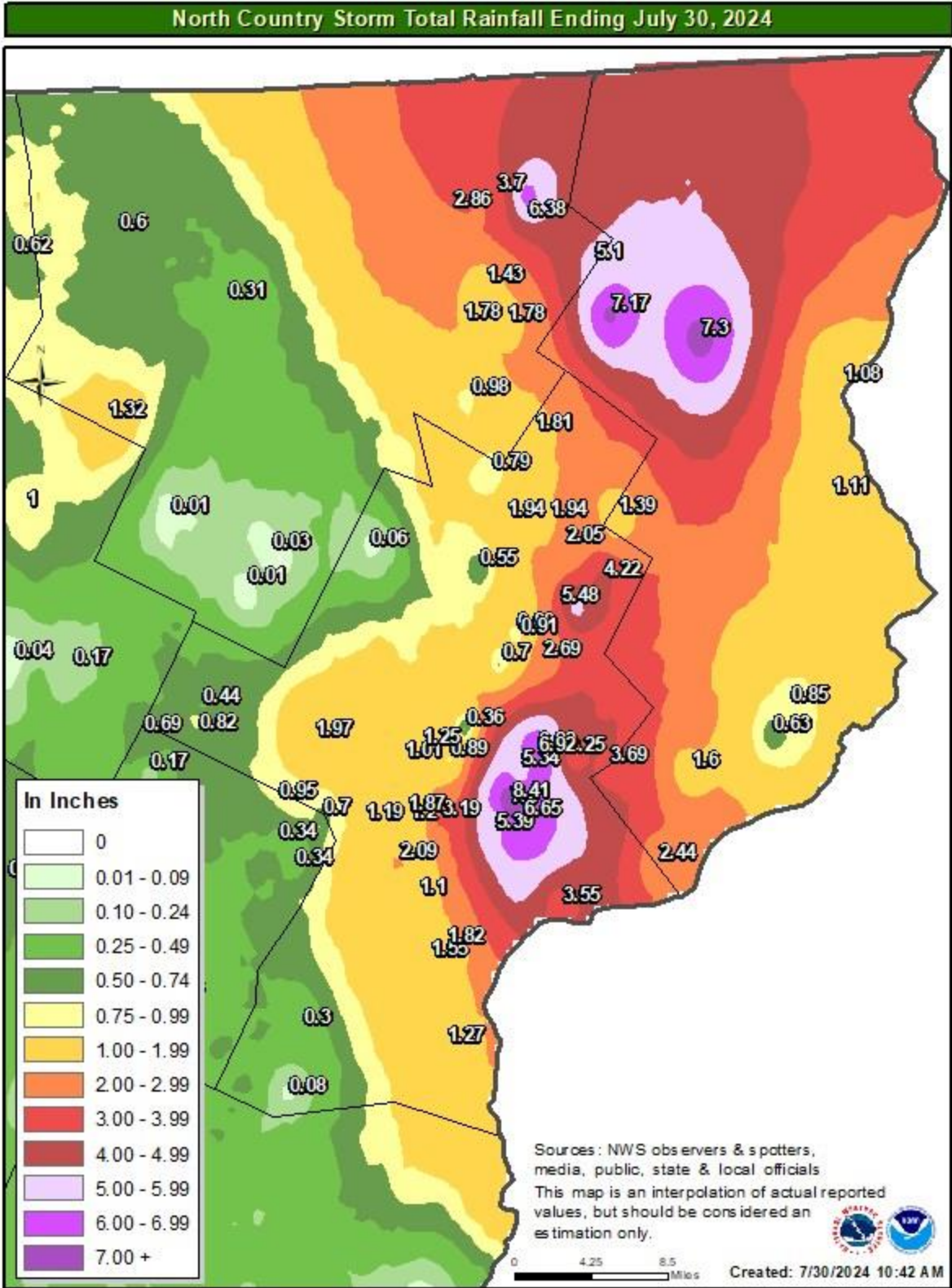


Figure 7. Storm total rainfall across the Northeast Kingdom, from late on July 29 into the early morning of July 30.



Figure 8: Catastrophic flooding washed part of this home in Lyndon away. The resident narrowly escaped with their life, being rescued from flood waters by a neighbor.