

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Burlington VT	
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH	YEAR 2025
		July	2025
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE Jessica Storm, Meteorologist	
		DATE August 8, 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.

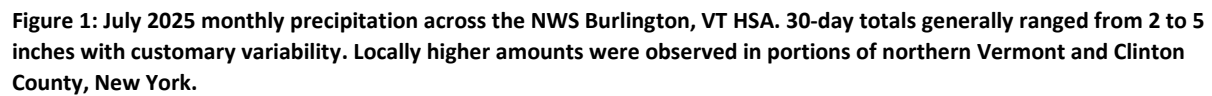
Overview

The month of July 2025 had a couple of eventful hydrologic events across the NWS Burlington HSA due to heavy rain from thunderstorms. Overall, 30-day precipitation totals ranged from 2 to 5 inches across the area with some customary variability, especially in northern areas (Fig. 1). These totals were generally below normal for many areas with negative departures as high as 2 to 4 inches across central and southern Vermont as well as St. Lawrence County, New York. The primary exception was the northern Champlain Valley into the northern Vermont and the Northeast Kingdom where positive departures were recorded as high as 1 to 2 inches (Figs. 2 and 3). This was mainly due to a couple of localized heavy rainfall/flash flooding events which occurred on July 10 and 13 (see below). Despite the overall below normal precipitation, average monthly groundwater levels remained near climatological norms outside of where localized heavy rain fell (Fig. 4).

Notable Hydrology

The most notable hydrologic events of July 2025 occurred on the 10th and 13th, the first of which featured flash flooding across the Northeast Kingdom, including, most notably, Calendar Brook Rd flooding and water rescue in Lyndon, VT on July 10th. A pocket of very heavy rain, as much as 3.00-5.15 inches, fell across Caledonia, Essex, and Orleans counties of Vermont from several clusters of slow-moving storms that occurred on the afternoon of the 10th. The NWS Burlington office received several reports of washouts and flooding in Orleans, East Haven, Sutton, and West Burke, Vermont, and the office upgraded one of the multiple Flash Flood Warnings to Considerable level in Caledonia County as water overtook portions of Vermont Route 58. The East Branch of the Passumpsic River also rose rapidly and unexpectedly above flood stage. Another, even smaller pocket of heavy rain occurred in Addison County that same day due to a heavy raining, slow moving thunderstorm, resulting in roads in New Haven, Vermont, being closed due to flooding. (Figs. 5 & 6). A summary Local Storm Report of this event can be accessed [here](#) and a Public Information Statement, including observed rainfall reports, can be found [here](#).

The second notable hydrologic event that occurred on July 13th was characterized by a cold front crossing northern New York, which brought locally torrential downpours and high rainfall rates from



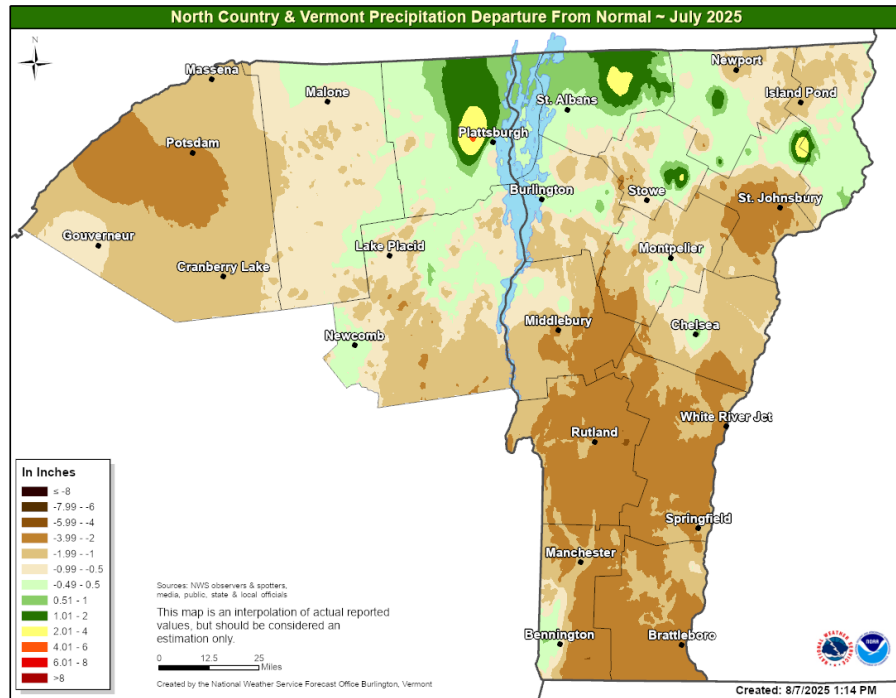


Figure 2: July 2025 monthly precipitation departures from normal across the NWS Burlington, VT HSA. On average, below normal values were observed, though above normal values were observed from the northern Champlain Valley into northern Vermont and the Northeast Kingdom.

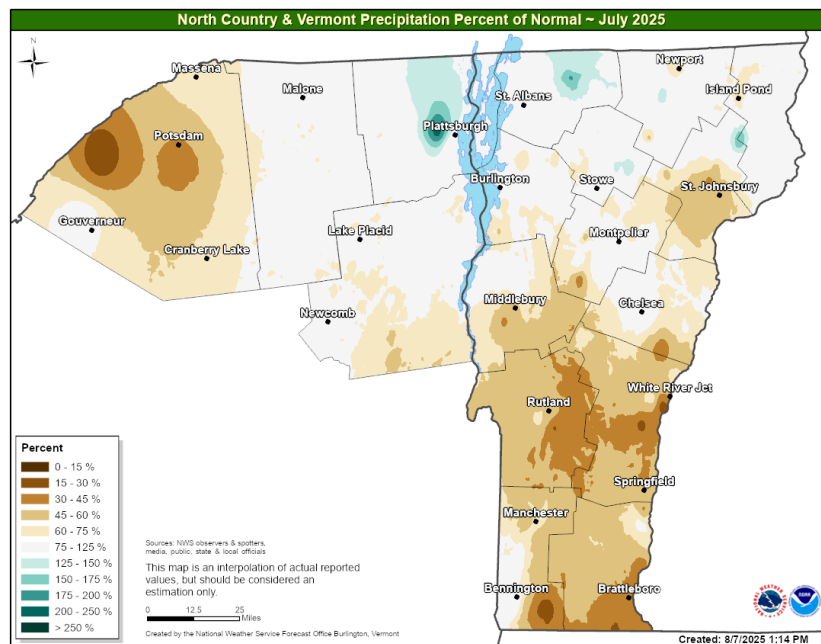


Figure 3: July 2025 monthly precipitation percent of normal across the NWS Burlington, VT HSA. Most of the region fell within the 15 to 75th percentile range, though again we see 125-200% across portions of the northern Champlain Valley and parts of the Northeast Kingdom.

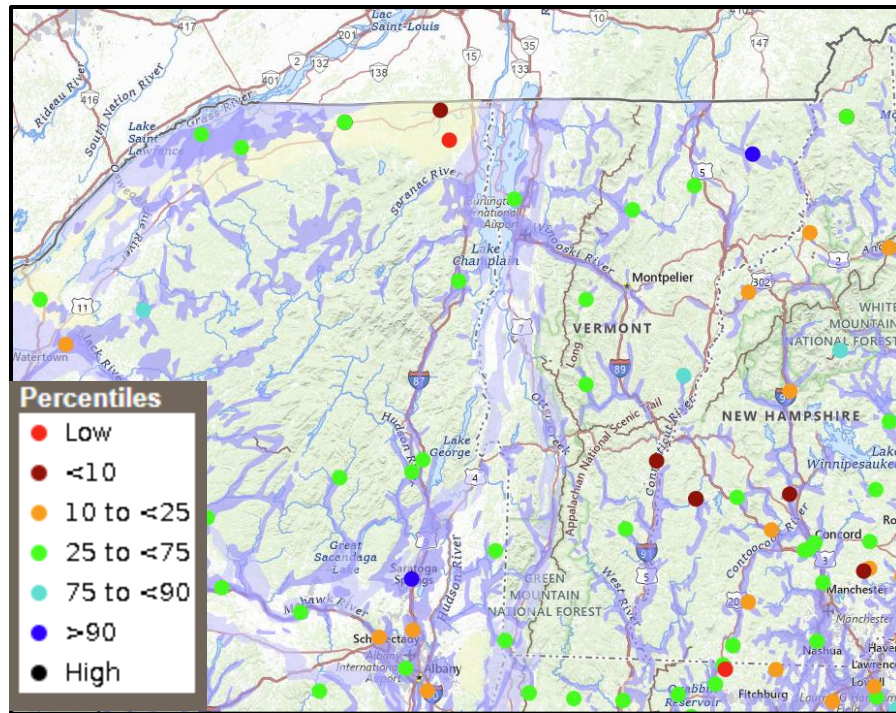


Figure 4: July 2025 most recent groundwater levels of Vermont and northern New York. The map above shows near normal water levels across most of the area except for some scattered lower levels in the Connecticut River and northwestern Champlain valleys as well as an isolated fairly high level in the Northeast Kingdom.

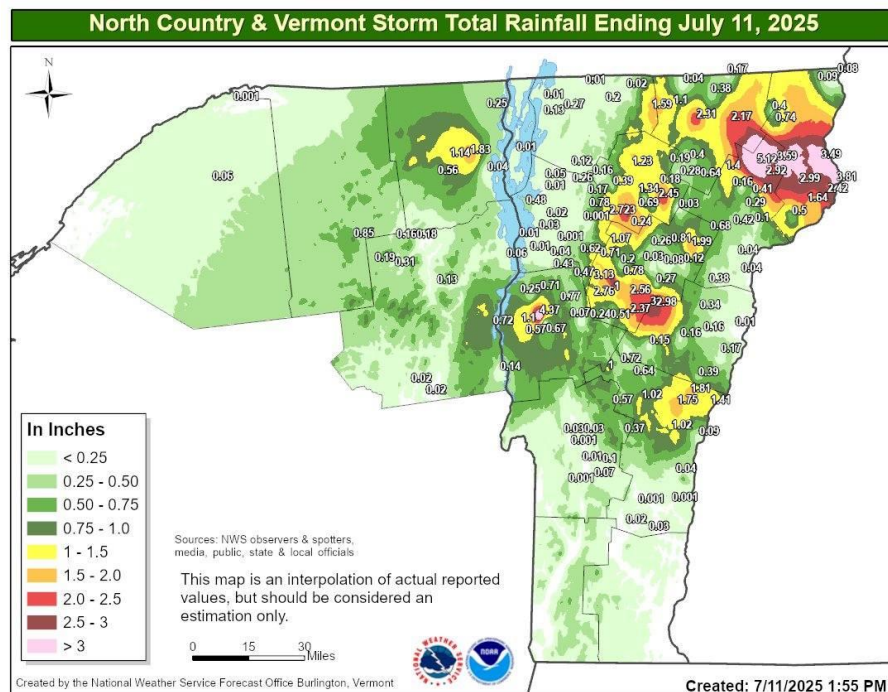


Figure 5: Rainfall report totals across the Burlington, VT HAS on July 10, 2025. Localized heavy totals of between 3.00 and 5.15 inches occurred in the Northeast Kingdom of Vermont in the vicinity of Caledonia, Essex, and Orleans counties where most notable flash flooding occurred. Another small bullseye of up to 4.45 inches of rainfall exists in Addison County where additional flash flooding was reported.



Figure 6: Photo of flash flooding damage to a home on Calendar Brook Rd provided by VT Digger.