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: October YEAR: 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: November 19, 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).

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

Overview

While the month of October 2025 across the NWS Burlington Hydrologic Service Area (HSA) began very dry, a series of storm systems brought beneficial rainfall to the region, including a 48-hour period where up to two to four inches fell across the eastern Champlain Valley and western slopes of the Green Mountains October 20 and 21 (Fig. 1). That helped bring overall October rainfall amounts to about three to six inches (Fig. 2) and resulted in mostly positive rainfall departures for much of the region except the Northeast Kingdom, northern Green Mountains, and portions of northern New York, which had slight negative departures (Figs. 3 and 4). The overall slightly wetter period across the Champlain Valley and central/southern Vermont resulted in streams recovering near normal values at the end of the month but remaining below normal values for the rest of northern New York and the Northeast Kingdom (Fig. 5). These conditions also contributed to improving drought conditions across the Champlain Valley and southern Green Mountains, though the areas that had negative departures had a slight worsening of drought conditions (Fig 6). At the month's end, the drought conditions were widespread D0-D1 across the HSA west of the Green Mountains, while the Green Mountains east reported D2-D3 conditions (Fig. 7).

Notable Hydrology

There was no other notable hydrology worthy of discussion during October, other than the beneficial rainfall event on October 20 and 21 mentioned above. No flooding or high-water issues were observed.

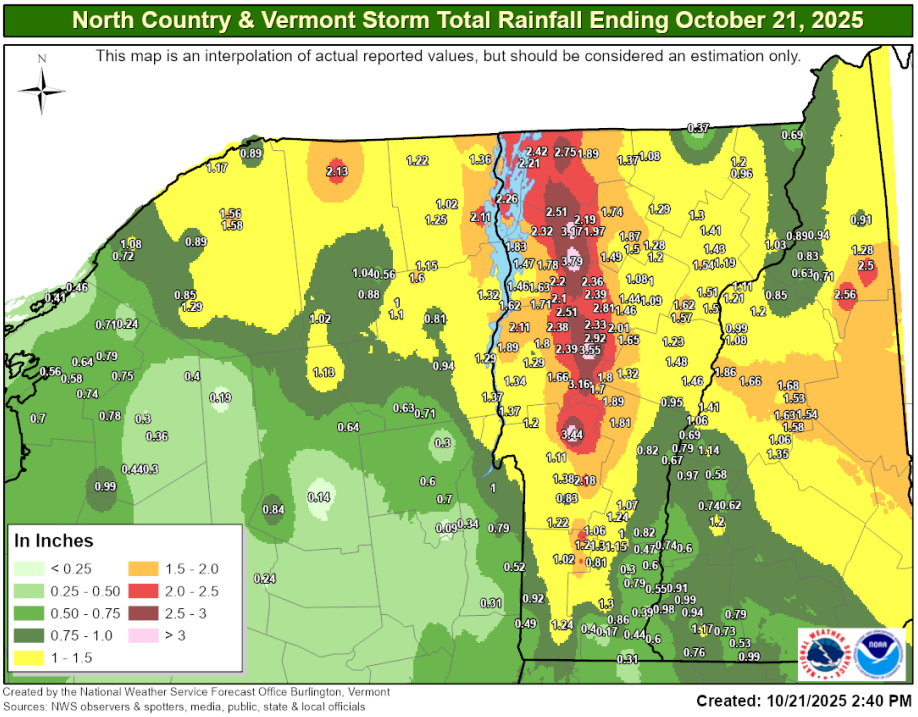

Figure 1: Storm Total Rainfall amounts over 48 hours October 20-21 across the NWS Burlington, HSA. Highest amounts of two to four inches occurred in the eastern Champlain Valley and on western slopes of the Green Mountains.

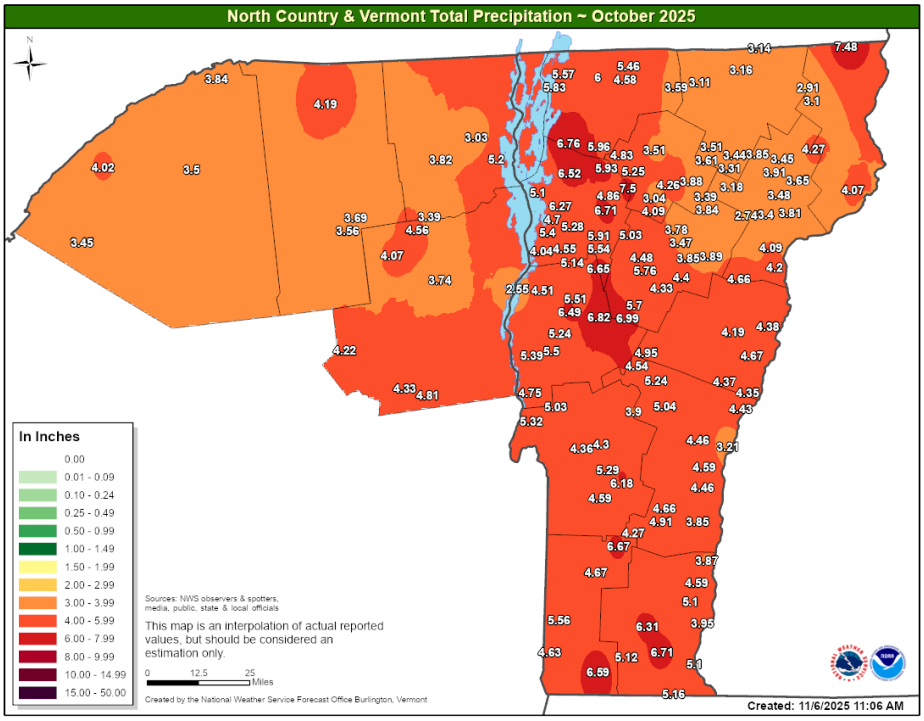

Figure 2: October 2025 precipitation across the NWS Burlington, HSA. Overall, values from three to six inches were commonplace with highest amounts occurring in the eastern Champlain Valley and on western sloeps of the Green Mountains.

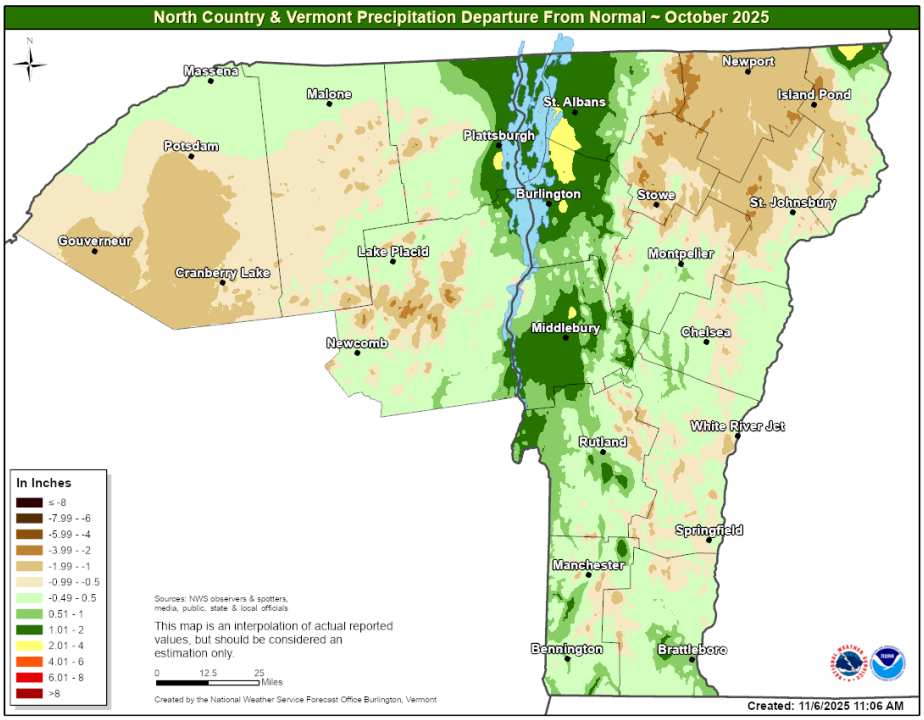

Figure 3: October 2025 precipitation departures (in inches) across the NWS Burlington HSA. Most areas observed positive departures as high as one to four inches, particularly in the Champlain Valley. The northern Greens, Northeast Kingdom, and St. Lawrence County regions observed negative departures between one and four inches.

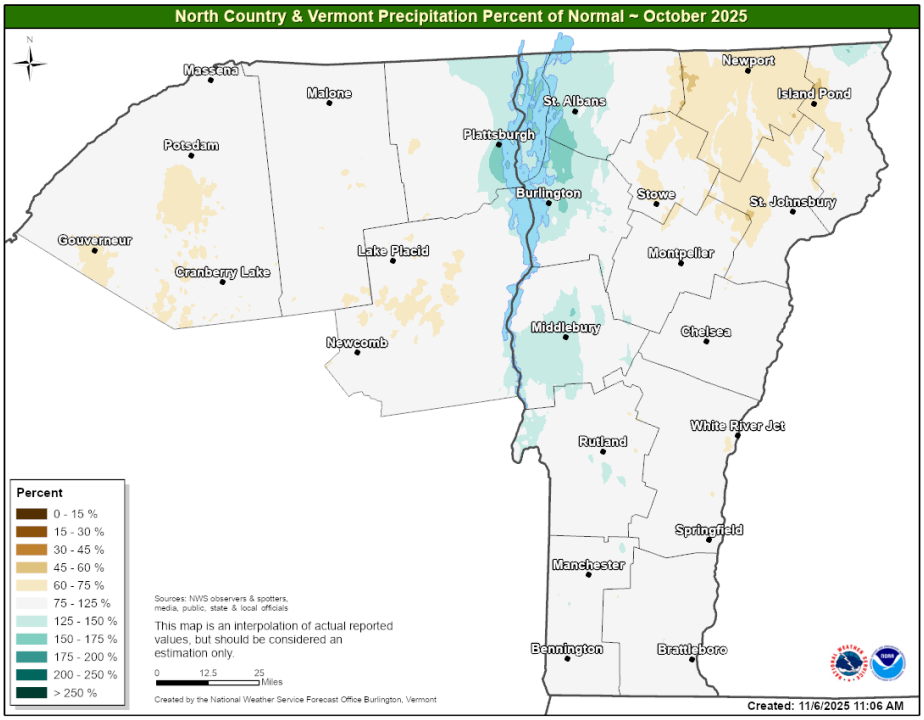

Figure 4: Percent of normal precipitation in October 2025 for the NWS Burlington HSA. Most areas fell into the 60 to 125th percentile of normal monthly amounts, though the northern Champlain Valley had as high as 125-175% of normal monthly amounts.

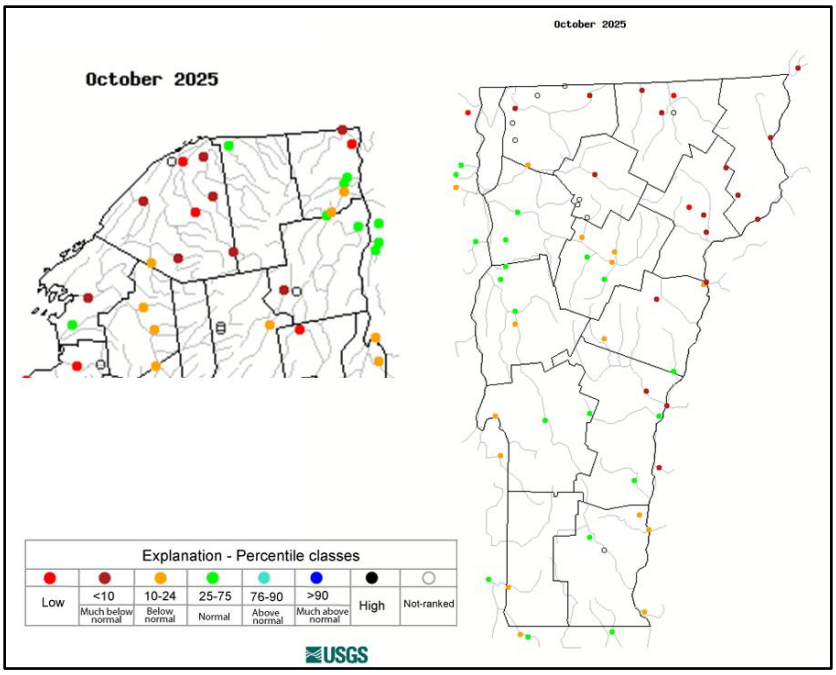

Figure 5: October 2025 streamflow near normal values for the Champlain Valley and parts of southern and central Vermont, but below normal for much of the rest of northern New York and the Northeast Kingdom.

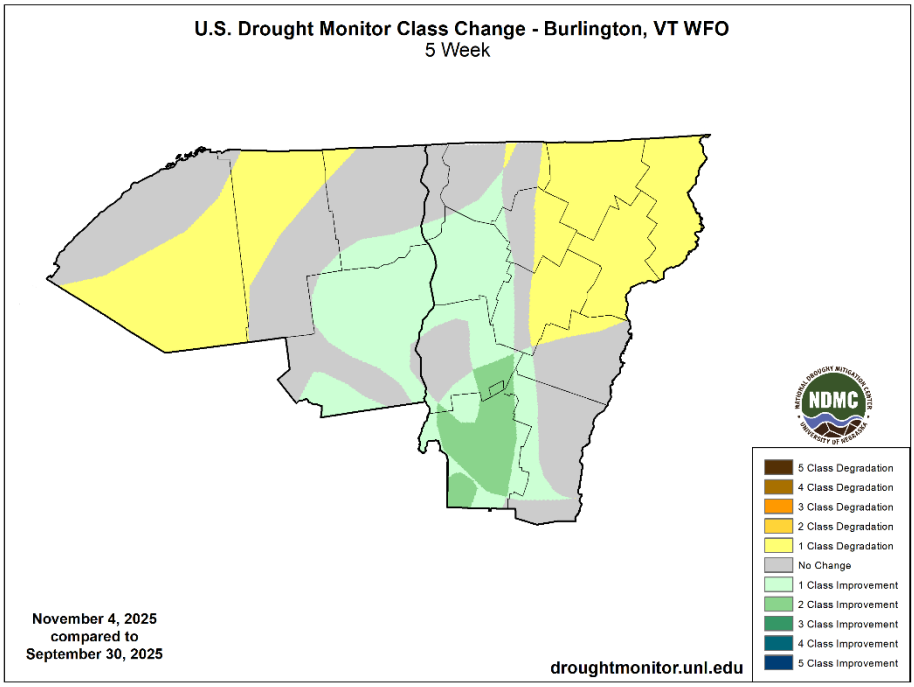

Figure 6: U.S. Drought Monitor Class Change 5-week map for the NWS Burlington HSA from September 30 – November 4, 2025. While the Northeast Kingdom and portions of northern New York had a dry few weeks with a slight degradation in drought category noted, the Champlain Valley had 1-2 drought class improvements over this time period.

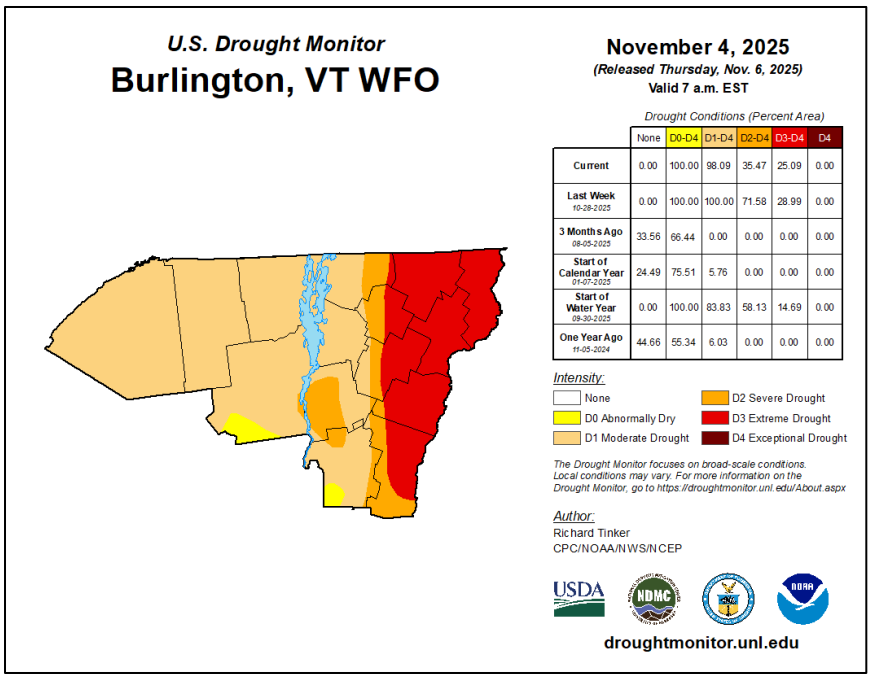

Figure 7. U.S. Drought Monitor Map from November 4, 2025 showing widespread D1 to D3 conditions across Vermont and widespread D0 to D1 conditions across northern New York within the NWS Burlington HSA.