

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	
		REPORT FOR: MONTH YEAR	October 2021
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE /s/John Goff, Senior Svc. Hydrologist	
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE 11/24/2021	

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.

The month of October 2021 continued trends from September, with regular bouts of light to moderate rainfall interspersed with periods of dry weather affecting the NWS Burlington HSA. Notable events occurred on the 2nd, 16th, and 25-26th when on average, totals of 0.5 to 1.0 inch were observed. The only exception was a rather heavy precipitation event which occurred over a 48-72-hour period from October 30 through the morning of November 1. During this period, northeastern New York and Vermont saw totals ranging from 1.5 to 3 inches, pushing several rivers to near bankfull (Figure 1). A few reports of flooding were received, notably in Addison County when a blocked culvert fostered a temporary closure of Route 116 in the Bristol, VT area. The sum of these events led overall precipitation departures to run near or above normal at most spots with automated stations showing similar trends (see Table 1). Overall, the precipitation helped alleviate much of the abnormally dry to moderate drought conditions across the state (Figure 2). Streamflow departures also showed some improvement in these areas (Figures 3 and 4).

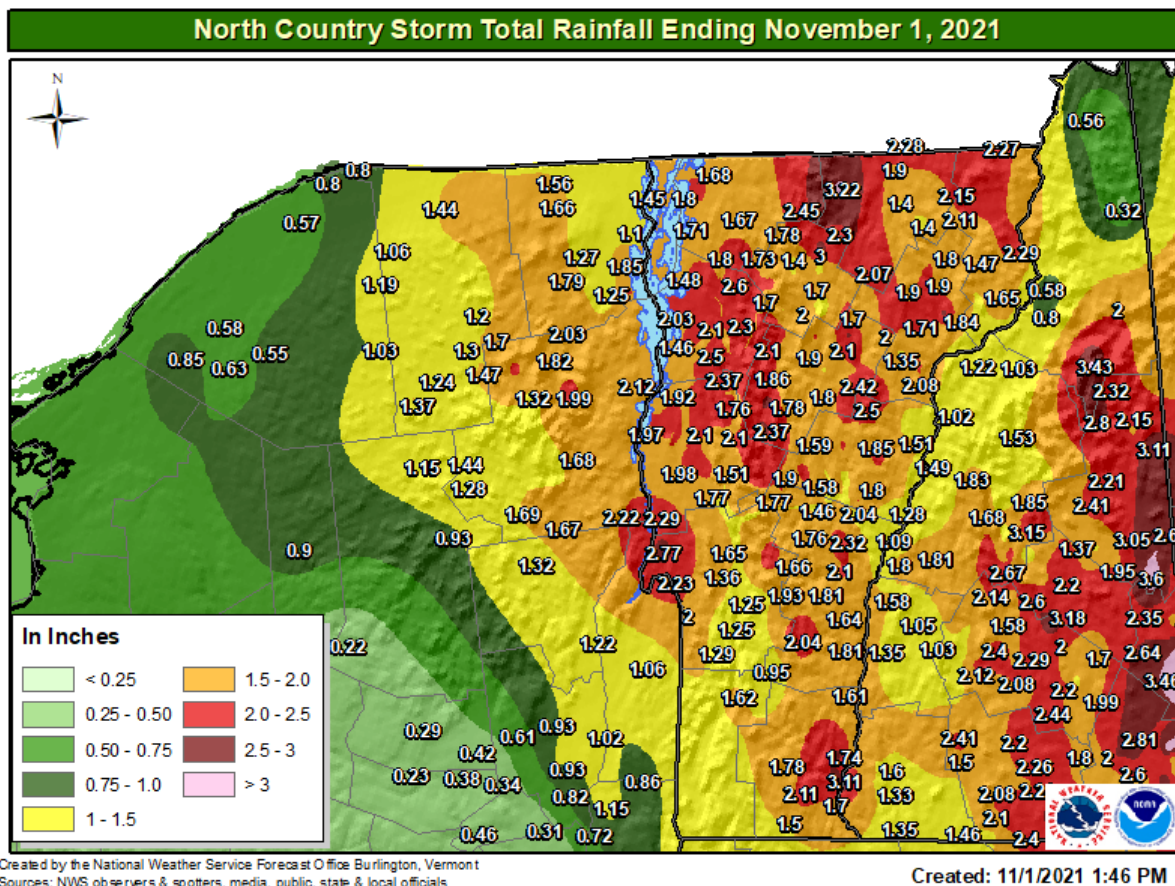


Figure 1: Storm total rainfall from October 30 to the morning of November 1. Heaviest totals of 1.5 to 3 inches were observed across Vermont where a few reports of flooding were received.

OBSERVING SITE (ASOS platforms)	PRECIPITATION DEPARTURE (OCT 2021)
St. Johnsbury, VT	+0.63
Burlington, VT	+1.66
Montpelier, VT	+0.56
Morrisville, VT	+0.90
Springfield, VT	+0.91
Massena, NY	+0.58
Saranac Lake, NY	+1.35
Plattsburgh, NY	+2.00

Table 1: October 2021 precipitation departure (in inches) for selected NWS ASOS platforms in the NWS Burlington HSA.

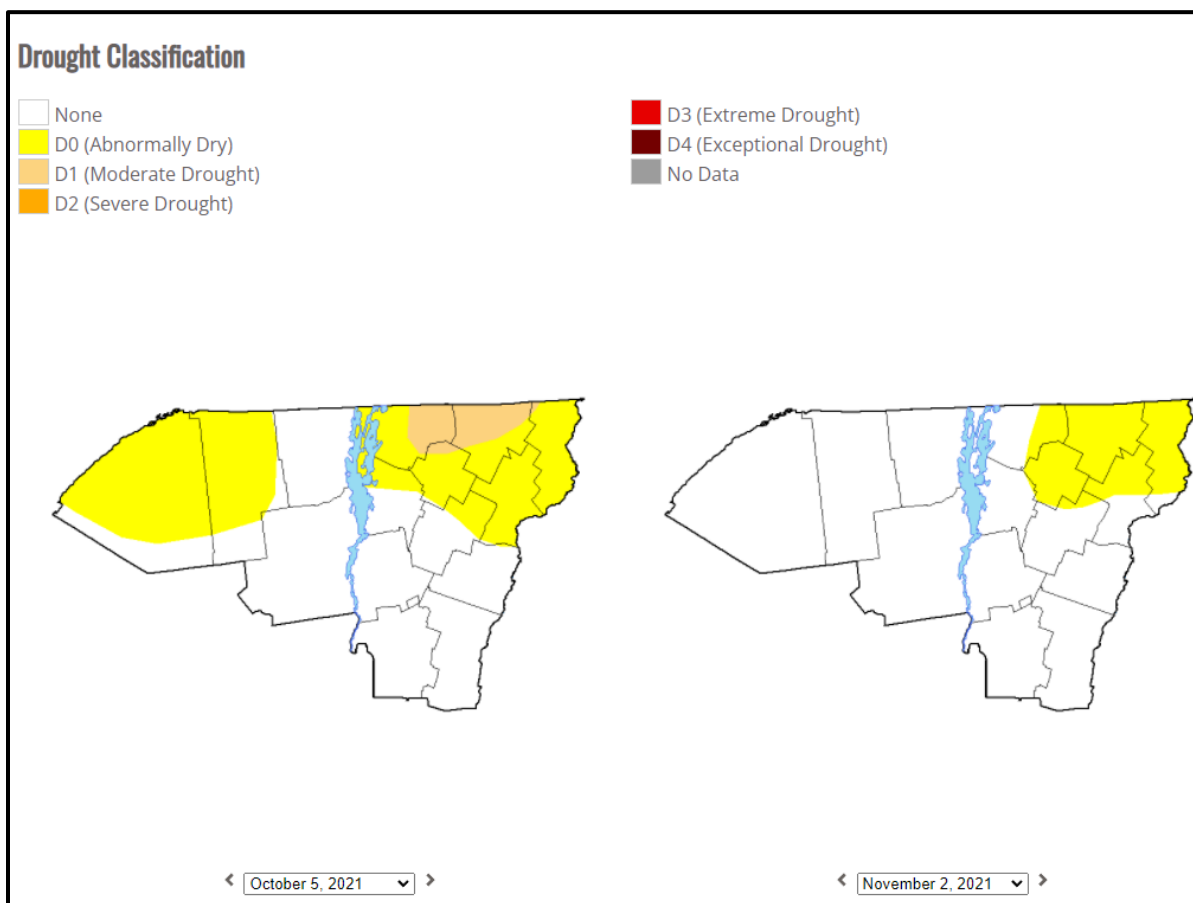


Figure 2: Comparison of US Drought Monitor maps for the first week of October (left) and the last week of the month (right). Plots show considerable improvement to long term dryness across the area.

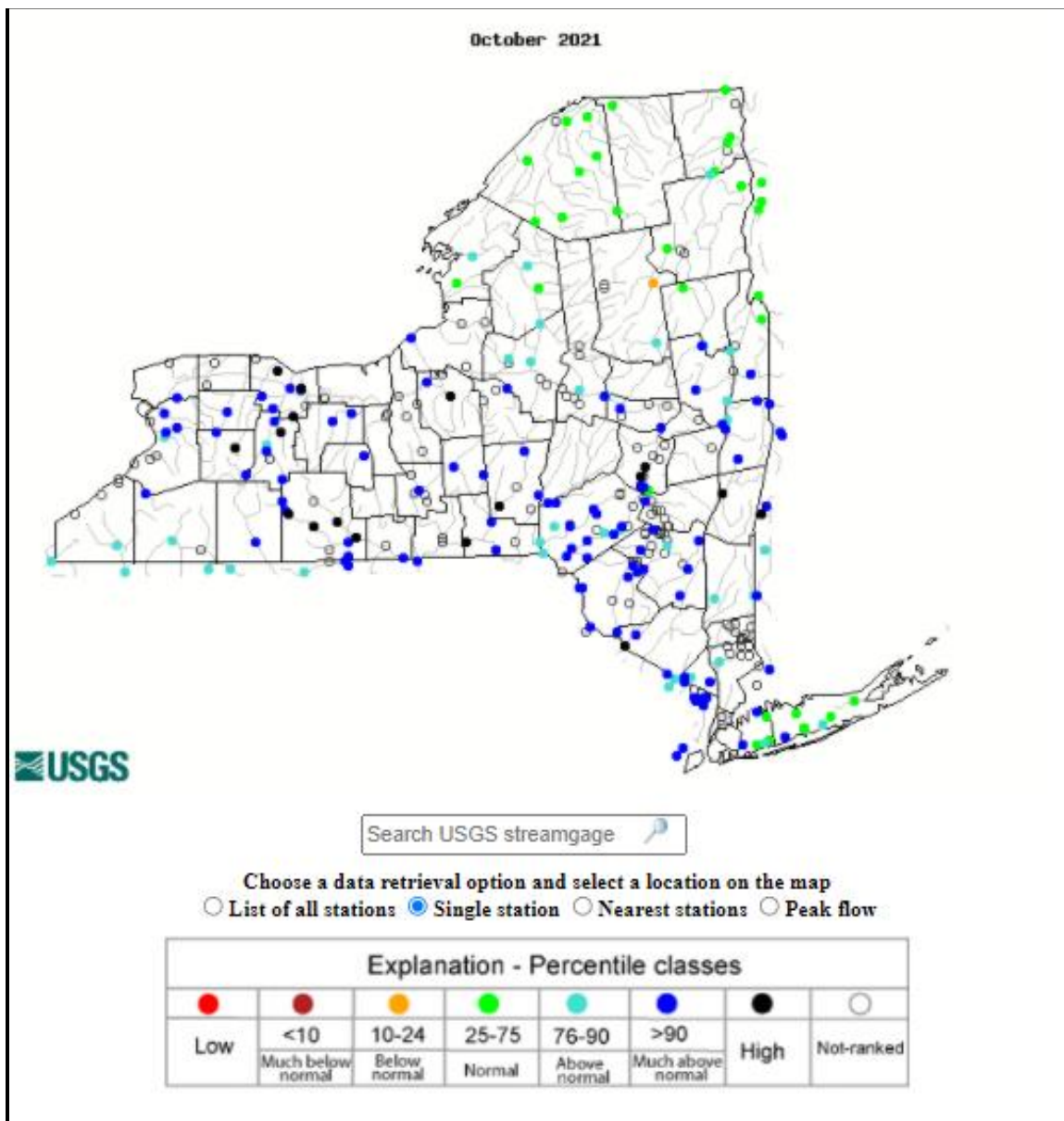
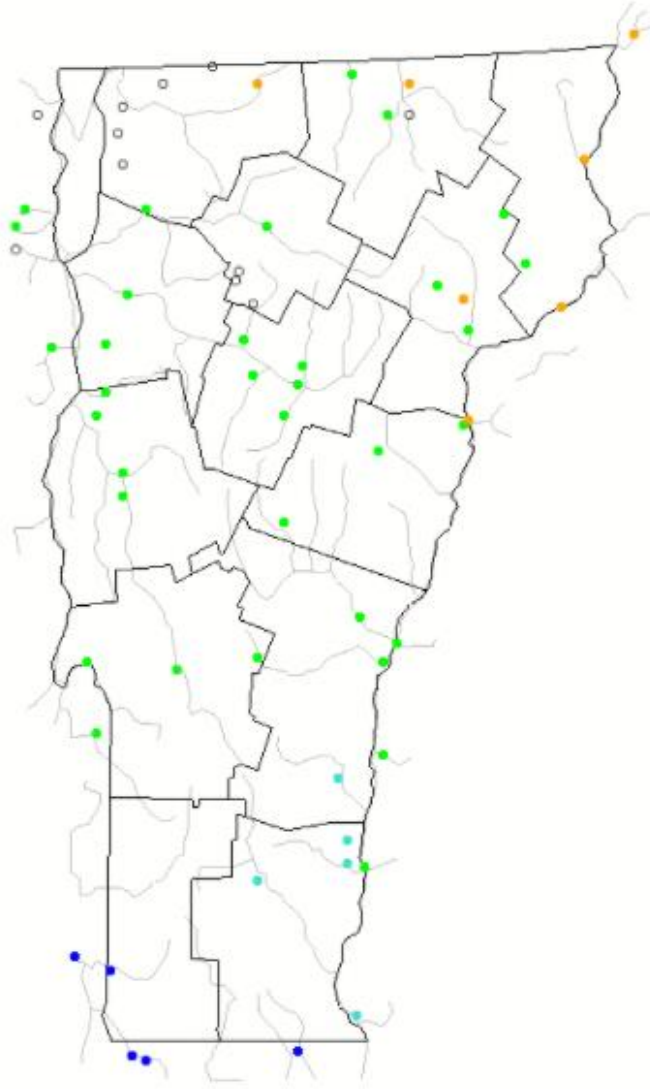


Figure 3. October monthly average streamflow for New York. Note near average values compared to normal for all sites in far northern portions of the state.

October 2021



Search USGS streamgage

Choose a data retrieval option and select a location on the map

List of all stations Single station Nearest stations Peak flow

Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Figure 4. October monthly average streamflow for Vermont. Note many levels have returned to near normal, but some below normal values linger across far northern/northeastern portions of the state where abnormally dry conditions remain.