NWS Form E-5 (04-2006) NATIONAL OCEANIC A (PRES. BY NWS Instruction 10-924)		J.S. DEPARTMENT OF COMMERCE ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Burlington VT		
MONTHL	Y REPORT OF HYDROLOG	GIC CONDITIONS	REPORT FOR: MONTH December	YEAR 2020	
NOAA's National W 1325 East West Hiç	Hydrologic Information Cente NOAA's National Weather Se	eather Service hway	SIGNATURE Jessica Neiles, Lead Meteorologist /s/		
	1325 East West Highway Silver Spring, MD 20910-32		DATE	01/13/2021	
	oding occurs, include miscellaneou onditions, snow cover, droughts, a		, ,	· · · · · · · · · · · · · · · · · · ·	
An X i	nside this box indicates that no f	looding occurred within this hyd	rologic service a	rea.	

Overall December 2020 was a warm and dry month as compared to seasonal normals. One significant snowfall event occurred on December 17th, though the heaviest snow was confined to our Southern Vermont counties. Snowfall totals (Figure 1) ranged from a dusting along the international border to over 40" in Rutland and Windsor counties. A second significant storm system impacted the north country on Christmas day. Rainfall totals (Figure 2) with this system ranged from around a half an inch of rainfall to over 3". This rainfall in combination with melting of our deep snowpack from the previous storm led to two of our rivers surpassing flood stage. The Ausable River at Ausable Forks, NY and the Otter Creek at Center Rutland, VT both surpassed minor flood stage in the 36 hours that followed. (Table 1)

Precipitation totals for the month (Figure 3) ranged from under an inch to over 6" in the extreme southeast corner of our forecast area. The northern half of our CWA observed below normal precipitation, while above normal precipitation fell across southern Vermont. A similar picture is painted for monthly snowfall totals (Figure 5). Monthly snowfall totals ranged from just 2" in the Northern Adirondacks to over 50" in southern Vermont. Observed temperatures were well above seasonal normal for the month of December across our entire forecast area. (Figure 7). Due to the warmer than normal temperatures across the entire area, and below normal precipitation across much of our area, our region remains in D0 and D1 drought as of the end of December.

Gage ID	Flood Stage	Crest Height	Date	Time
ASFN6	7.0'	8.73'	12/25	19:45z
CENV1	6.0'	9.71'	12/26	13:45z

Table 1: Rivers that reached flood in December 2020 in BTV CWA.

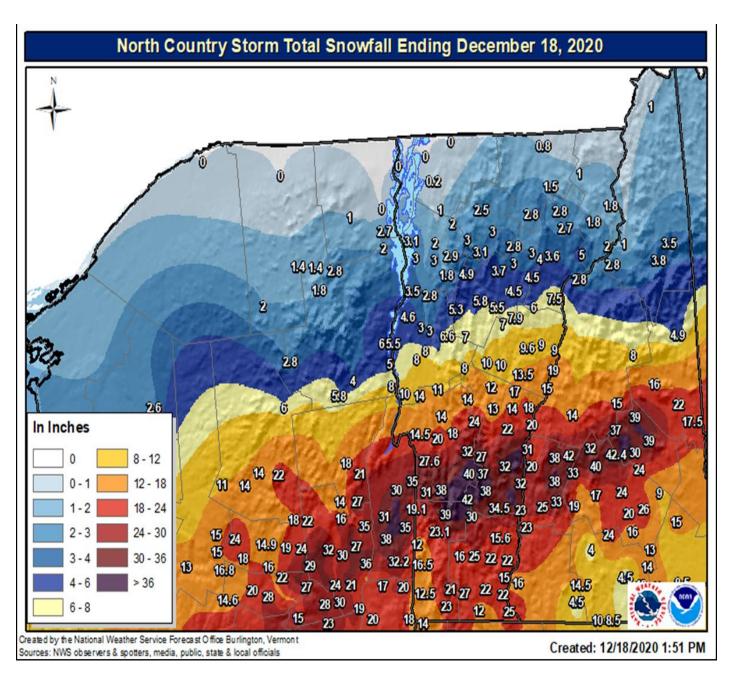


Figure 1: Snowfall totals from December 17, 2020 snowstorm.

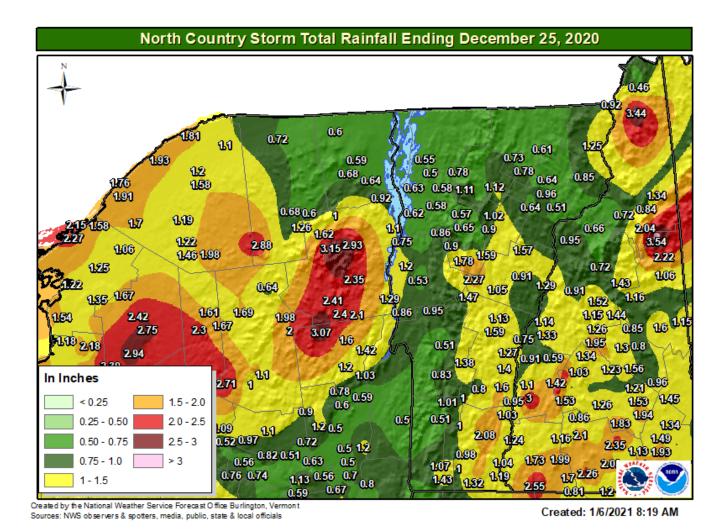


Figure 2: Rainfall totals from December 25, 2020 storm.

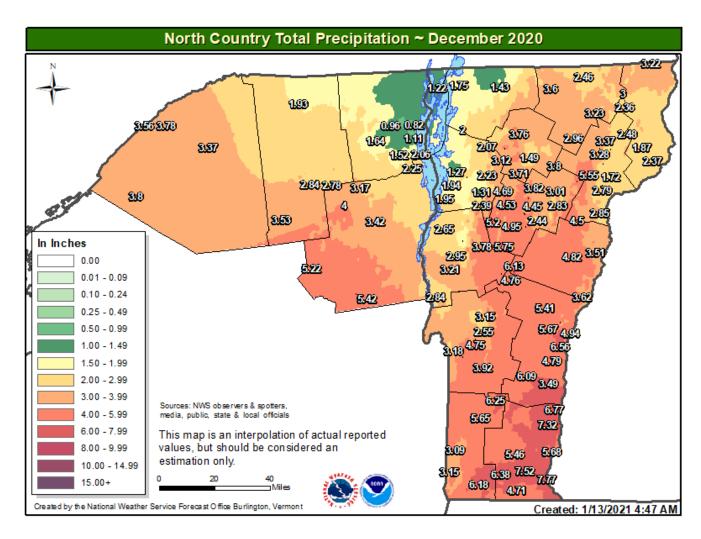


Figure 3: Total precipitation for the month of December 2020

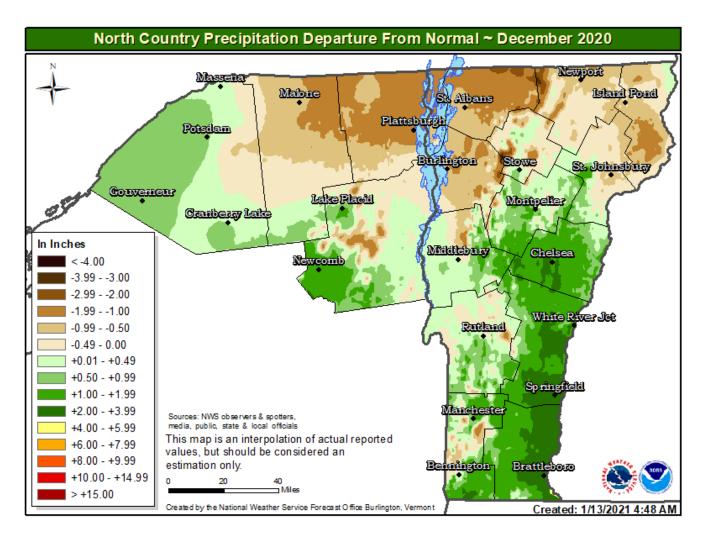


Figure 4: Monthly precipitation departure from normal for the month of December 2020.

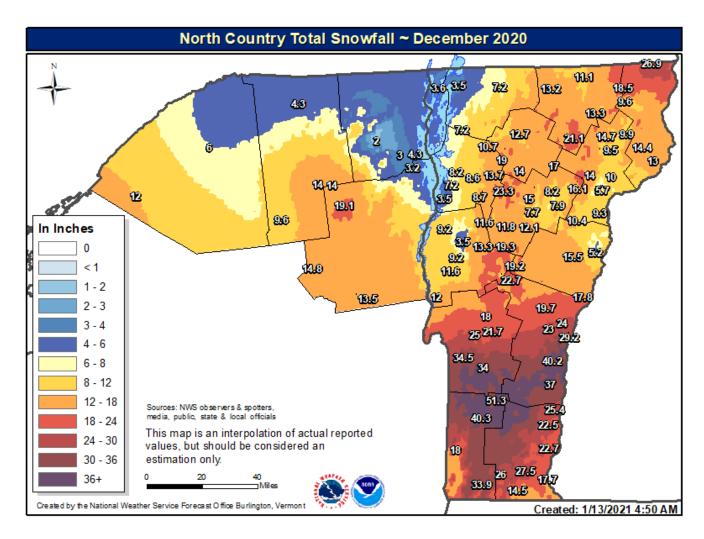


Figure 5: Monthly snowfall totals for the month of December 2020.

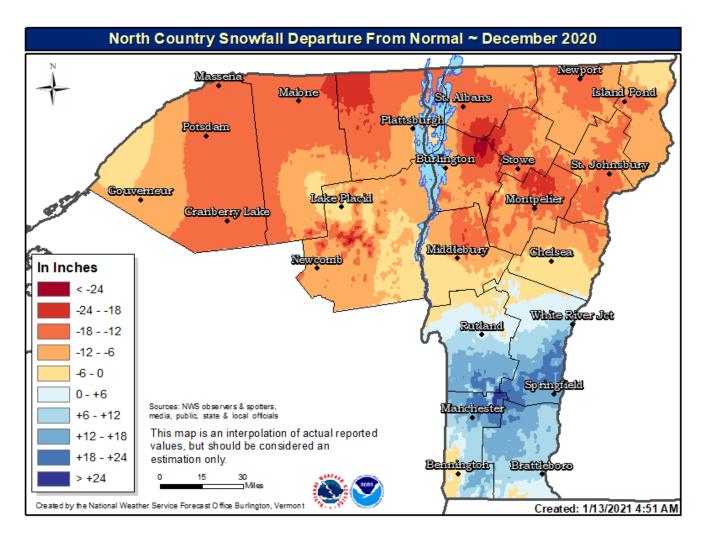


Figure 6: Monthly snowfall departure from normal for December 2020.

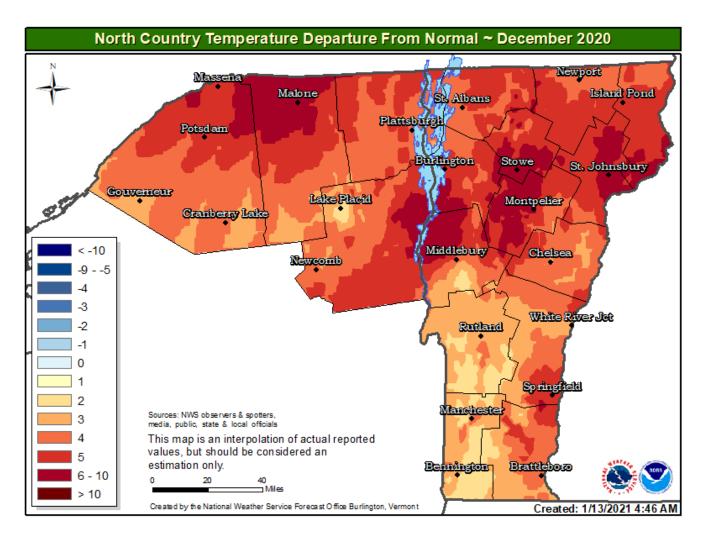


Figure 7: Monthly temperature departure from normal for December 2020.

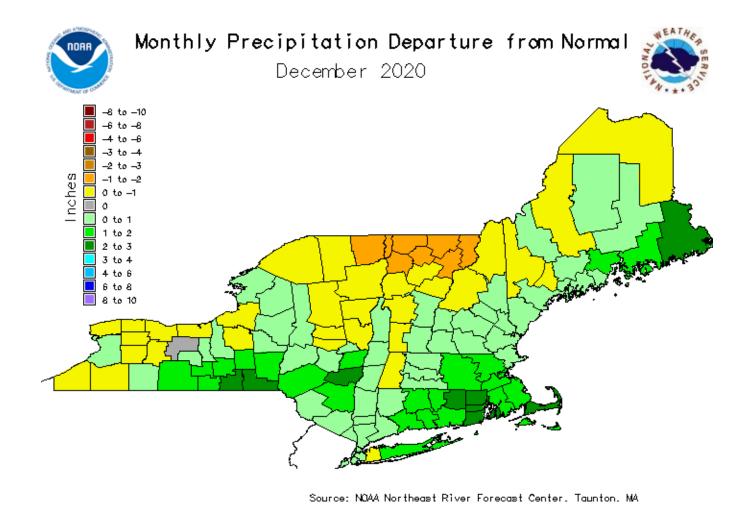


Figure 8: Monthly precipitation departure from normal by county from NERFC for December 2020.

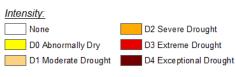
U.S. Drought Monitor Burlington, VT WFO

December 29, 2020

(Released Thursday, Dec. 31, 2020) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	12.83	87.17	38.15	0.00	0.00	0.00
Last Week 12-22-2020	2.13	97.87	51.93	0.00	0.00	0.00
3 Month's Ago 09-29-2020	0.00	100.00	60.50	18.06	0.00	0.00
Start of Calendar Year 12-31-2019	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-29-2020	0.00	100.00	60.50	18.06	0.00	0.00
One Year Ago 12-31-2019	100.00	0.00	0.00	0.00	0.00	0.00



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 9: Drought monitor on December 29, 2020 for BTV CWA.