

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
December 2018

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
/s/ Jessica Neiles, Meteorologist

DATE
February 3, 2019

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.

December 2018 brought normal to above normal precipitation across much of the region. Liquid equivalent precipitation ranged from a little over an inch to over five inches. This precipitation ranged from two inches below normal to two inches above normal. Snowfall was below normal across the entire North Country, up to 2 feet below normal in the higher elevations. Aside from Northeast Vermont which had below normal temperatures, much of the region was warmer than normal.

Flooding During the month of December:

For much of December, there was no flooding. There was one rain event that occurred on the 21st of the month that resulted in widespread snowmelt and river and ice jam flooding. A widespread soaking rain fell across Northern New York and Vermont during this event. The highest rainfall totals were over two and a half inches in some higher elevation spots in Southern Vermont. Flooding reports in these regions follow:

Gage ID	River/Stream	Location	FS	Above Flood Date/Time	Flood Crest	Date/Time
CENV1	Otter Creek	Center Rutland	8.0	12/22/18 1425z	9.89'	12/23/18 145z
WATV1	Winooski R.	Waterbury	419.0	12/22/18 228z	419.3'	12/22/18 300z
ASFN6	East Branch Ausable R.	Ausable Forks	7.0	12/22/18 815z	7.45'	12/22/18 1130z
ESSV1	Winooski R.	Essex Junction	12.0	12/22/18 1127z	14.88'	12/23/18 415z
PASV1	Passumpsic R.	Passumpsic	12.4	n/a	11.16'	12/22/18 2100z
JVLV1	Lamoille R.	Jeffersonville		Areal FLW		
JONV1	Lamoille R.	Johnson	13.0	12/22/18 1540z	13.47'	12/22/18 2030z
COVV1	Barton R.	Coventry		Areal FLW		
WATV1	Winooski R.	Waterbury	419.0	12/22/18 1511z	419.6'	12/22/18 1730z

Rivers/Streams and Groundwater:

Gaged rivers and streams in Northern New York and Vermont ran at above to well above normal levels during much of the month of December. Groundwater levels ranged from normal to well above normal.

North Country Total Precipitation ~ December 2018

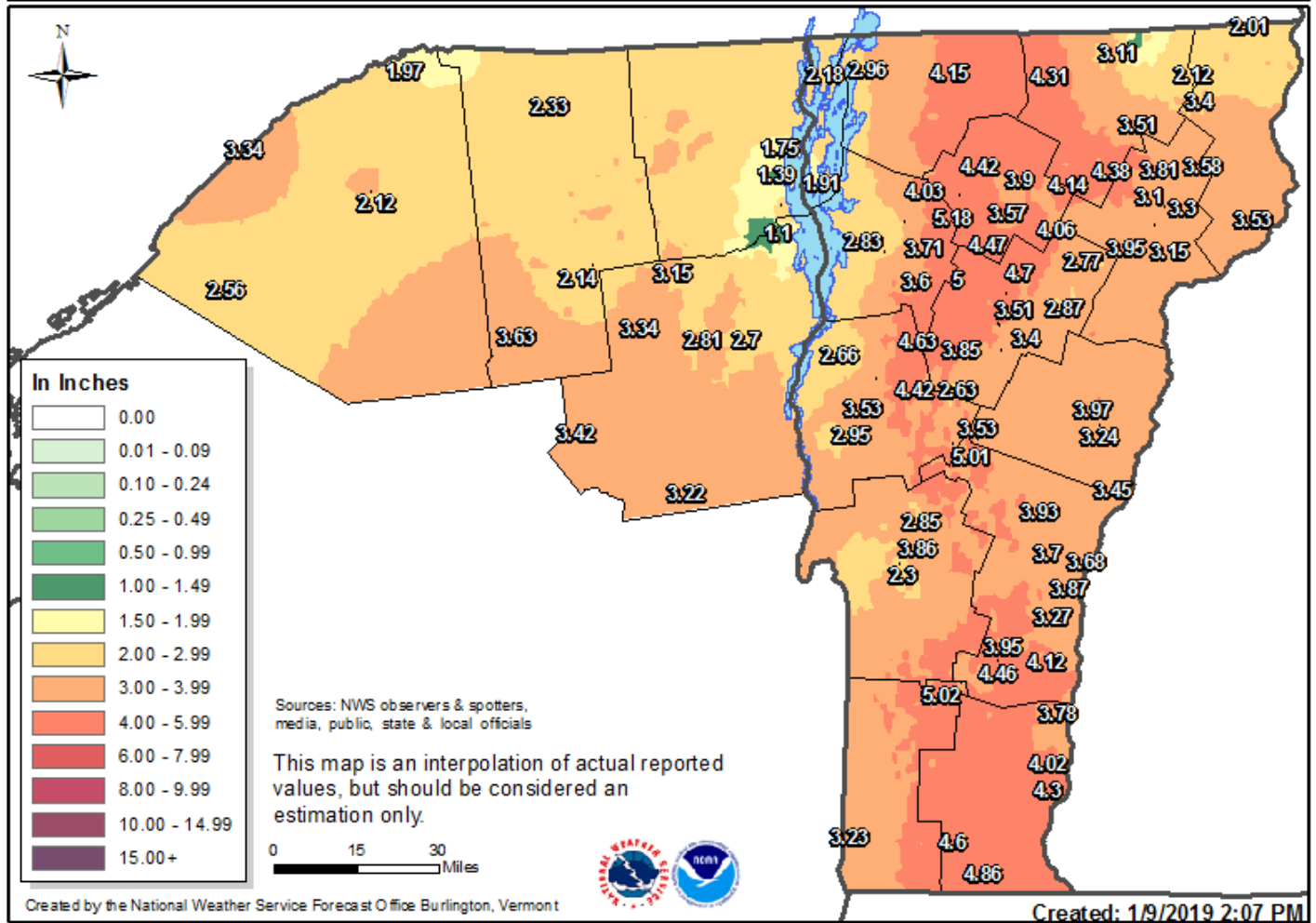


Figure 1: Total monthly liquid precipitation for December 2018.

North Country Precipitation Departure From Normal ~ December 2018

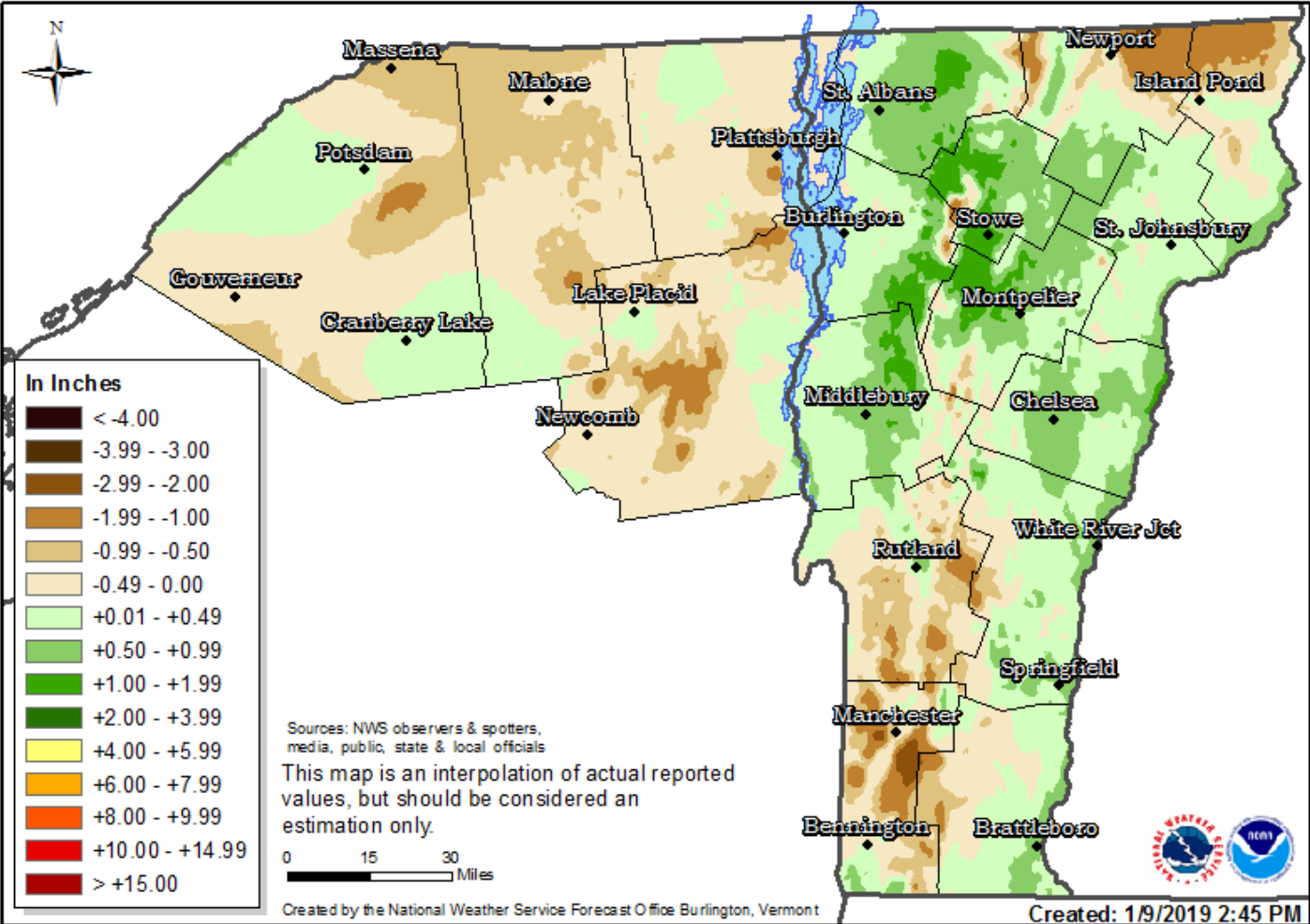


Figure 2: Precipitation departure from normal for December 2018.

North Country Total Snowfall ~ December 2018

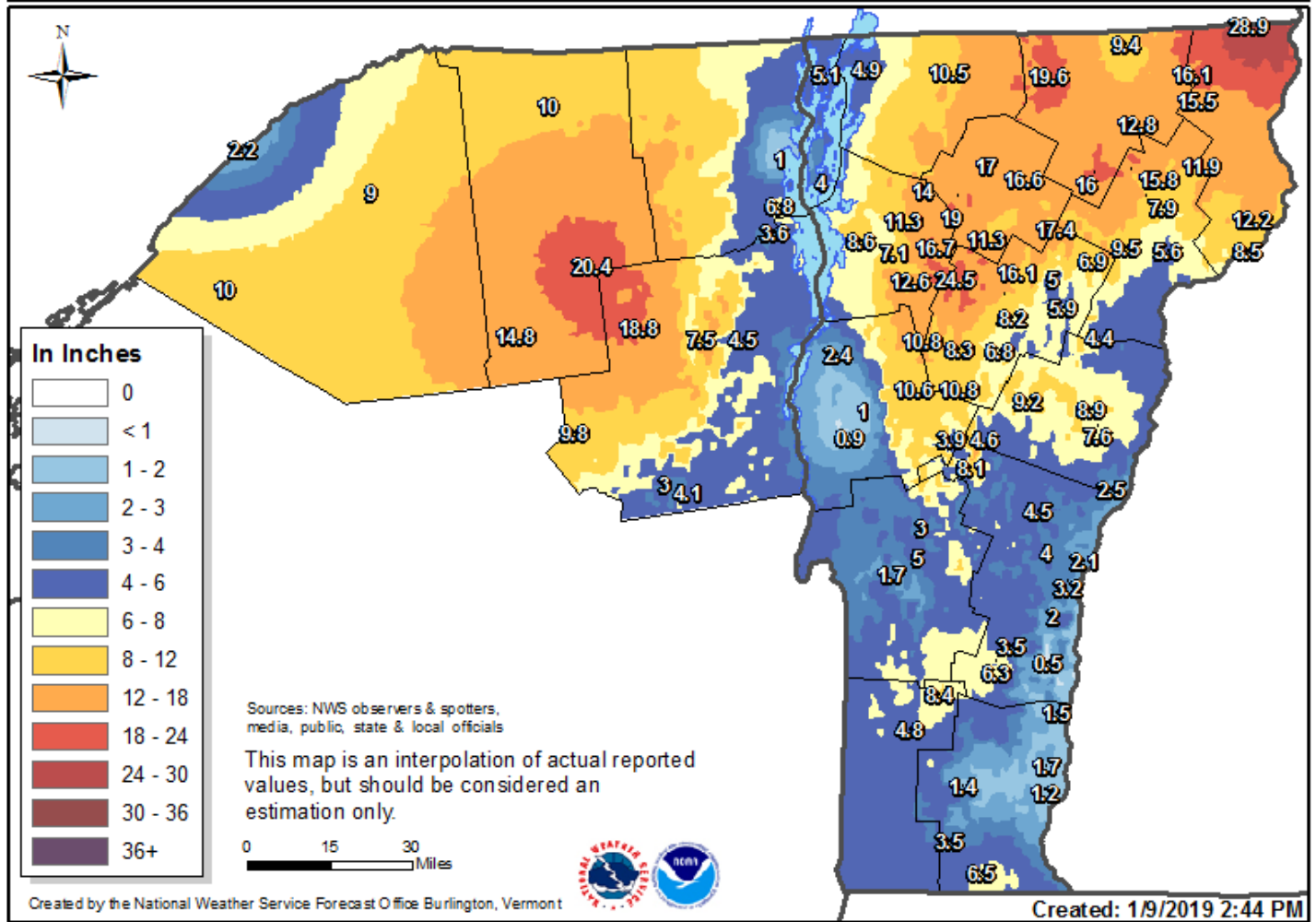


Figure 3: Total monthly snowfall for December 2018.

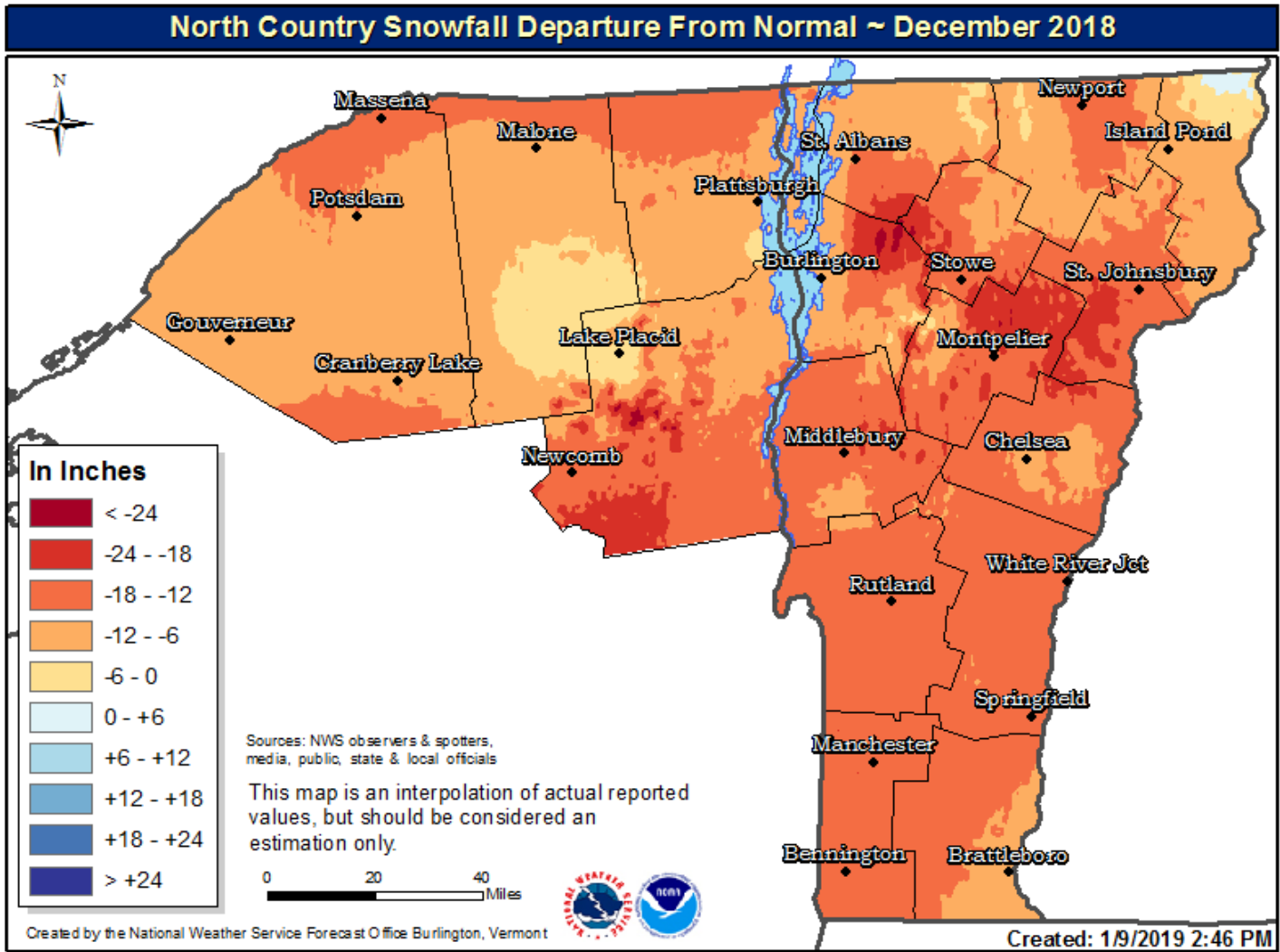


Figure 4: Total monthly snowfall departure from normal for December 2018.

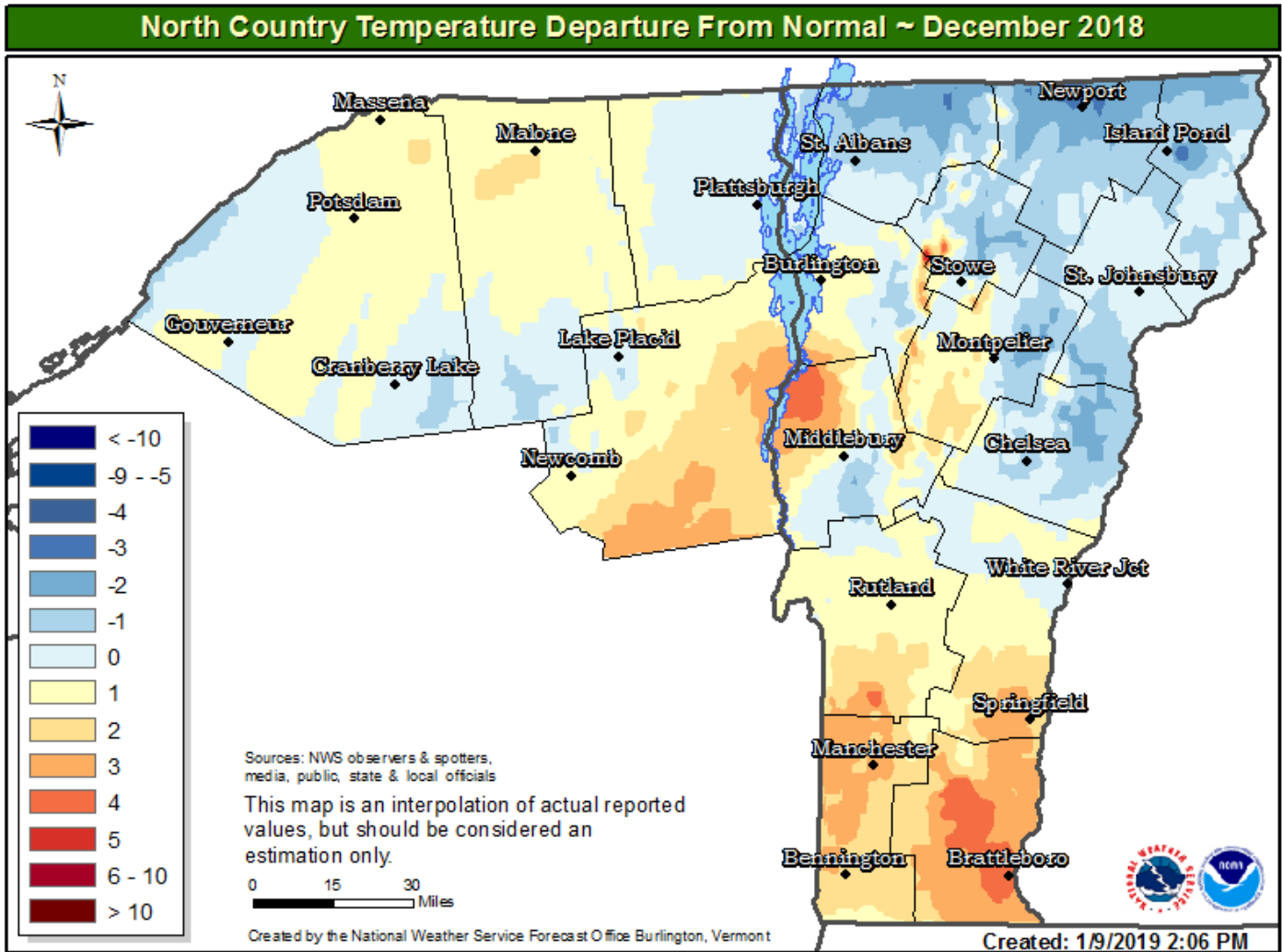


Figure 5: Temperature departure from normal for December 2018.

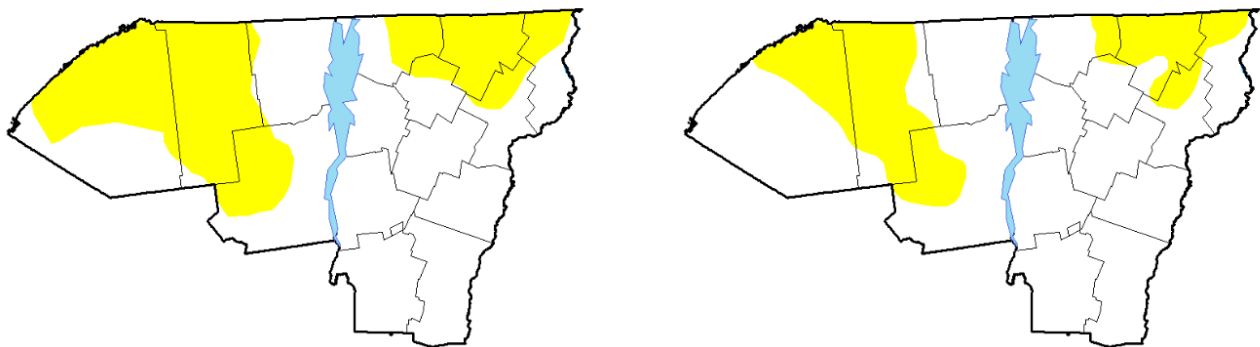


Figure 6: U.S. Drought Monitor maps from November 27, 2018 and January 1, 2019 showing minor improvement across the Burlington HSA as a result of heavier than normal precipitation during December 2018.

North Country Storm Total Rainfall Ending December 22, 2018

