

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
 MONTH            YEAR  
 January            2019

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

SIGNATURE  
 /s/ Maureen Hastings, Meteorologist

DATE  
 February 26, 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.

January 2019 ended up cooler and wetter than normal, which means it was snowier than normal, as well. In fact, Burlington nearly doubled the average January monthly total of 21.1 inches. The month saw wide swings in temperature, with some days topping out well above freezing. This included the first day of the year, which topped out in the mid 30s to upper 40s. Antecedent snow cover was minimal, as was precipitation, with this event, so hydrologic impacts were limited.

A second and more significant event occurred later in the month, the 24<sup>th</sup> into the 25<sup>th</sup>, when temperatures once again warmed well into the 40s. However, this time there was significant precipitation as low pressure interacted with a slow moving cold front. Liquid precipitation of 1 to 2.50 inches fell, and this combined with significant snowmelt to produce substantial runoff into area rivers. River levels rose considerably, which in turn lead to ice break up. Ice jams developed on several waterways, including the Winooski near Richmond and the East Branch of the Ausable in Upper Jay. Flooding occurred in numerous places across the North Country, including in New Haven, Pawlet, Starksboro, and Hartford. Otter Creek rose above its banks, resulting in moderate flooding at the Rutland river gage.

The wetter than normal conditions resulted in decreasing drought conditions through the month. The last lingering abnormally dry conditions were finally removed from northern Vermont with the Drought Monitor issuance on the 24<sup>th</sup>.

River flows averaged above normal through the month, particularly late in the month heading into February.

| Gage ID | River/Stream | Location       | FS  | Above Flood Date/Time | Flood Crest | Date/Time       |
|---------|--------------|----------------|-----|-----------------------|-------------|-----------------|
| CENV1   | Otter Creek  | Center Rutland | 8.0 | 1/24/19 2325Z         | 10.51       | 1/25/2019 1845Z |
|         |              |                |     |                       |             |                 |

# North Country Total Precipitation ~ January 2019

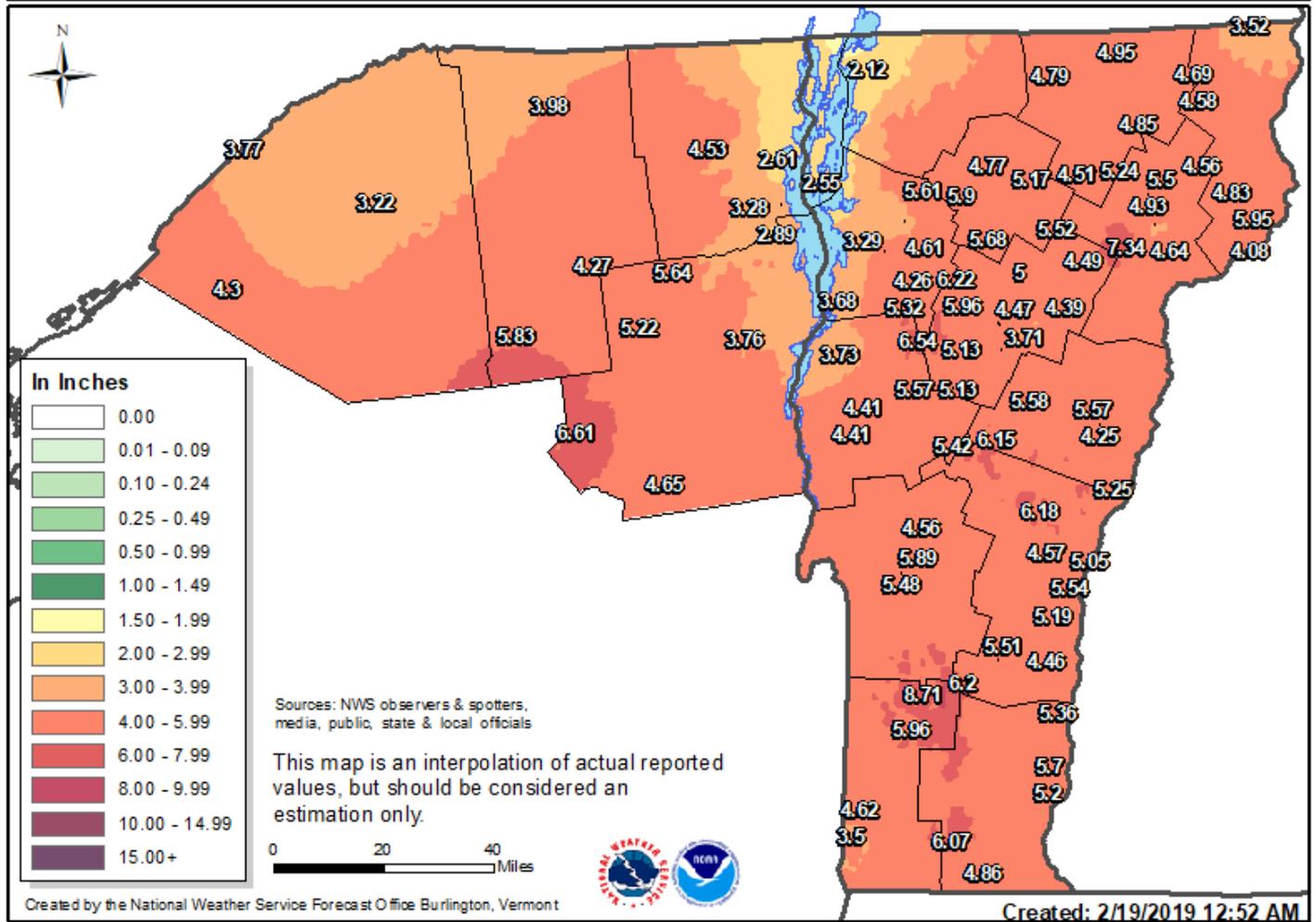


Figure 1: Total monthly liquid precipitation for January 2019.

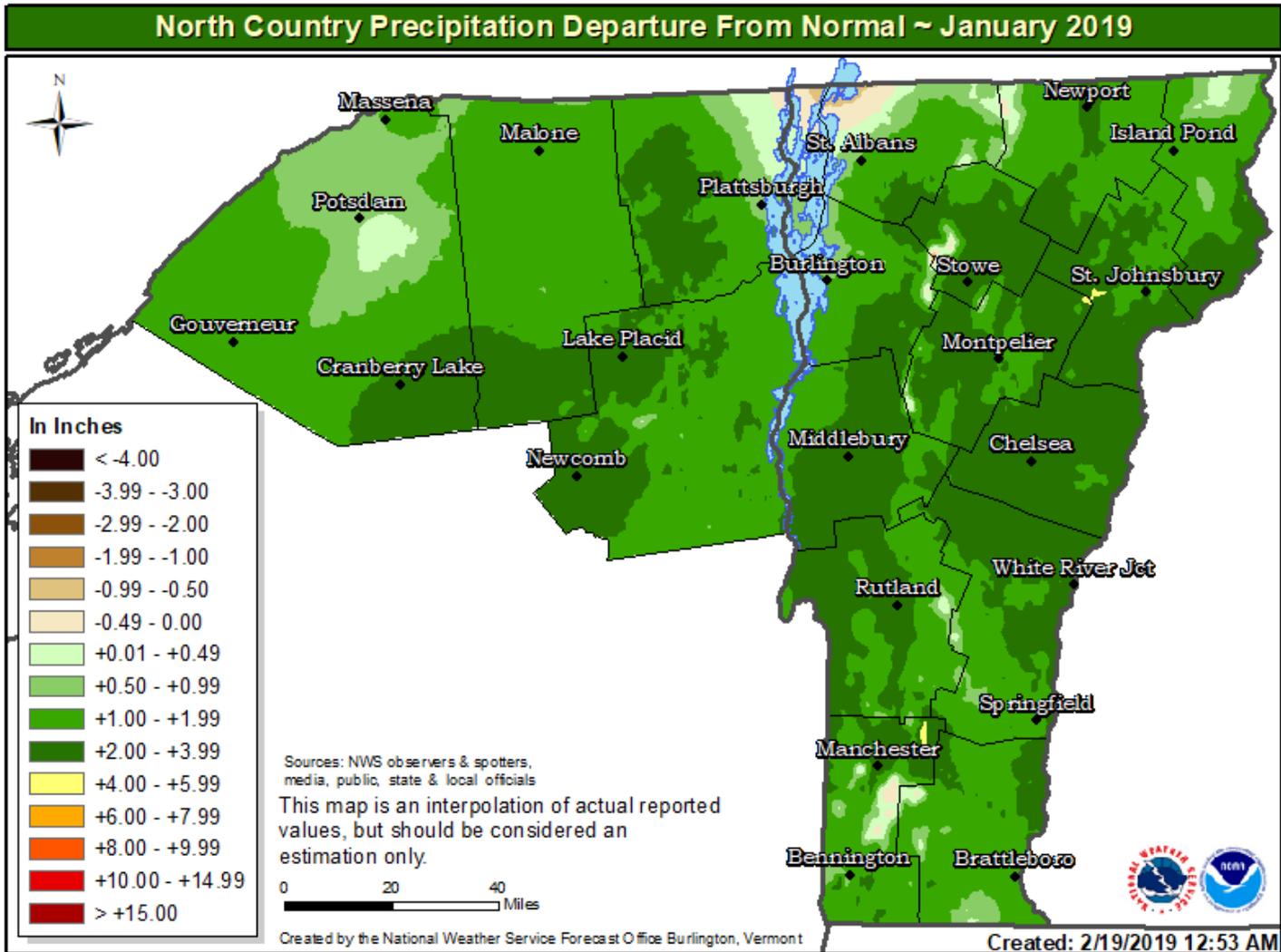


Figure 2: Precipitation departure from normal for January 2019.

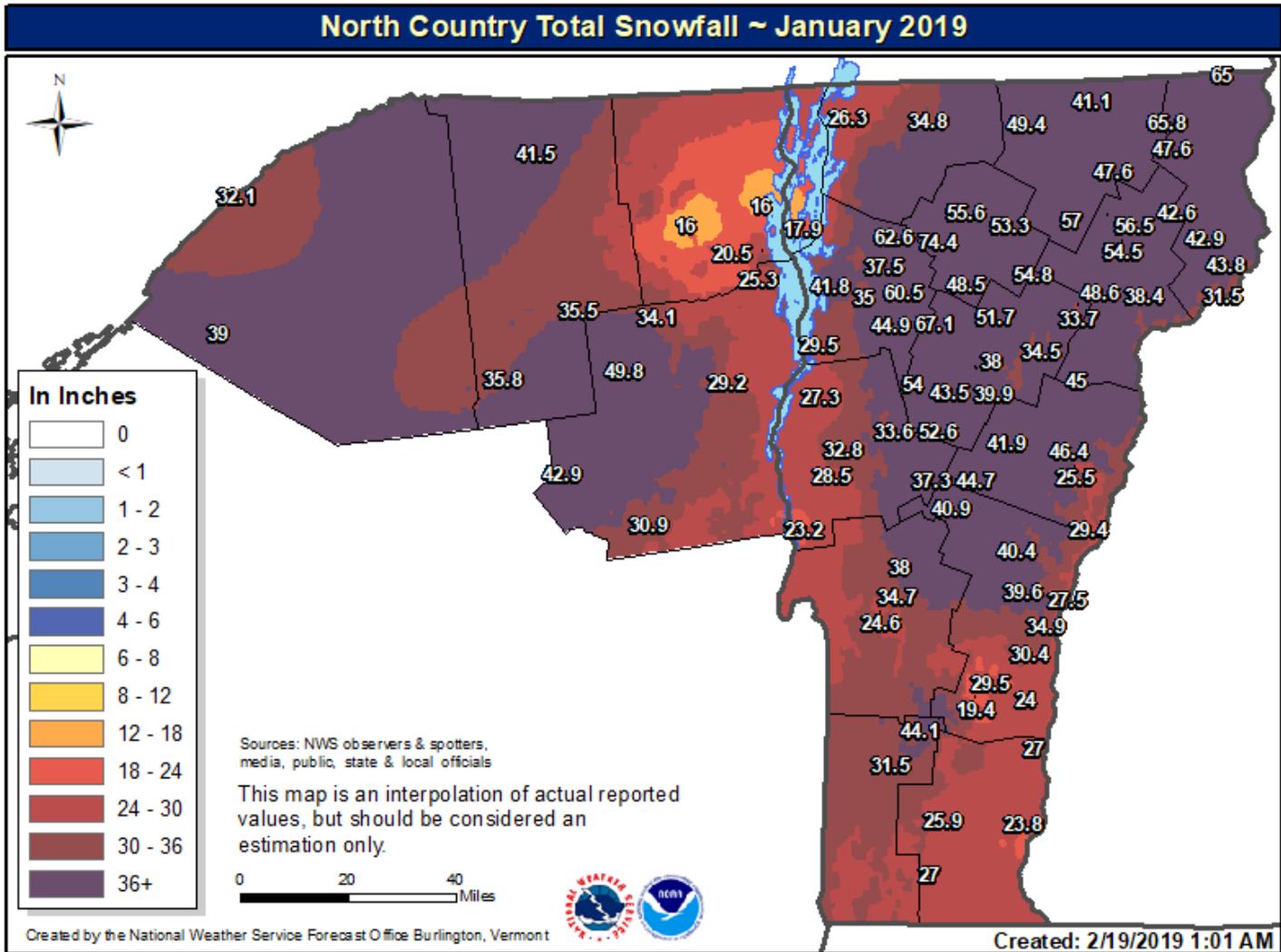


Figure 3: Total monthly snowfall for January 2019.

**North Country Snowfall Departure From Normal ~ January 2019**

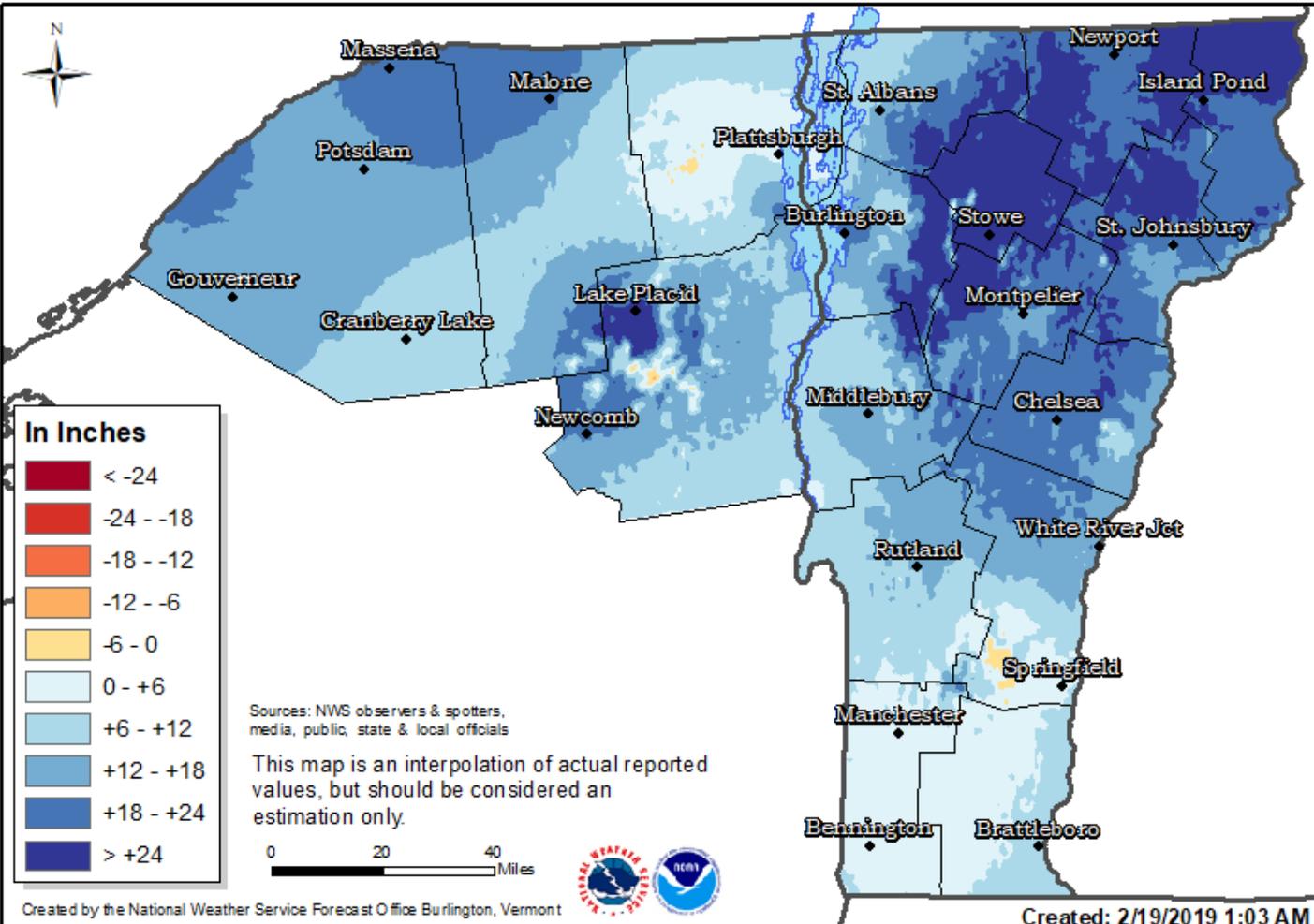


Figure 4: Total monthly snowfall departure from normal for January 2019.

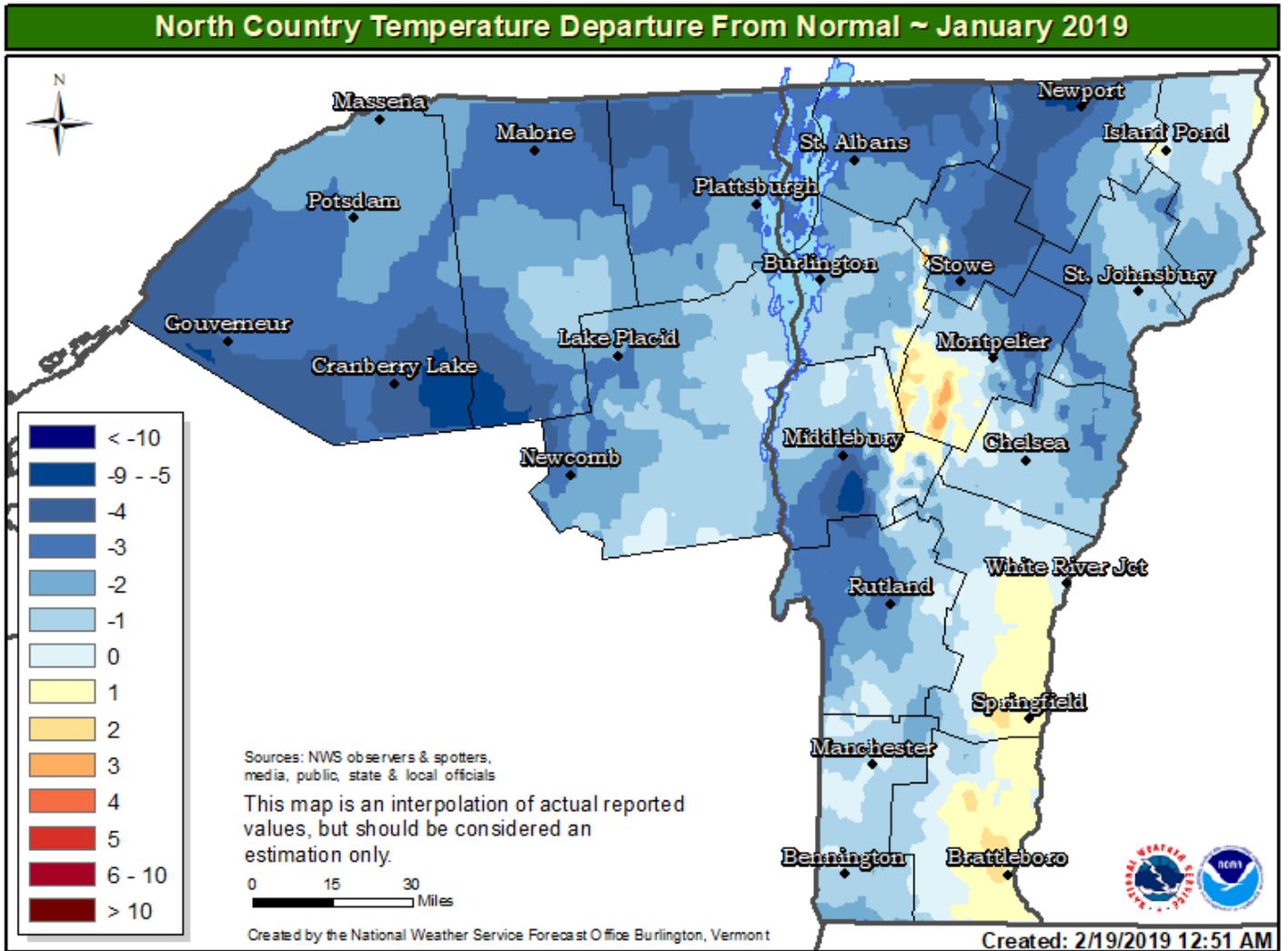


Figure 5: Temperature departure from normal for January 2019.

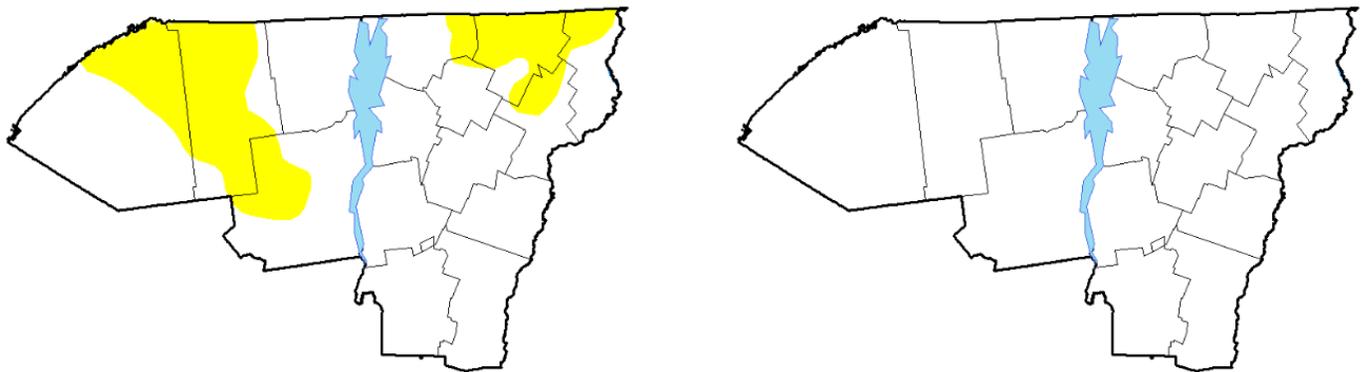


Figure 6: U.S. Drought Monitor maps from January 1, 2019 and January 29, 2019 showing improvement across the Burlington HSA as a result of heavier than normal precipitation during January 2019.