

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
 MONTH            YEAR  
 July                2020

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

SIGNATURE  
 Jessica Neiles, Meteorologist /s/

DATE  
 September 10, 2020

*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.

Overall August 2020 was a warm and wet month for the Burlington VT HAS, except for extreme Northeastern Vermont which was drier than normal. Total precipitation (Figure 1) for the month ranged from about 2” in extreme Northeastern Vermont up to 7” at Lake Placid, NY in the Northern Adirondacks. From the spine of the Greens westward, monthly precipitation departures averaged around 1-2” above normal. East of the Greens, monthly precipitation departures ranged from about 1-3” below normal. (Figure 2) Our drought status increased in severity across eastern Vermont. (Figure 3)

The biggest and most widespread rain system of the month was when the remnants of Tropical Cyclone Isaias moved across the North Country on August 4<sup>th</sup> and 5<sup>th</sup>. (Figure 4) Most of the area had at least three quarters of an inch of rain, and a swath across the center of our CWA saw closer to 2-3” of rain. The only river point which surpassed minor flood stage was East Branch Ausable River at Ausable Forks, NY. It crested at 7.61’, less than a foot above flood stage, on August 5<sup>th</sup>.

On August 24<sup>th</sup> an isolated thunderstorm which was nearly stationary caused isolated flash flooding in western Rutland County in Southern Vermont. A cooperative observer in Whitehall, NY (just west of there) measured over 5” of rain that day. (Figure 5) This was the only flash flooding during the month.

# North Country Total Precipitation ~ August 2020

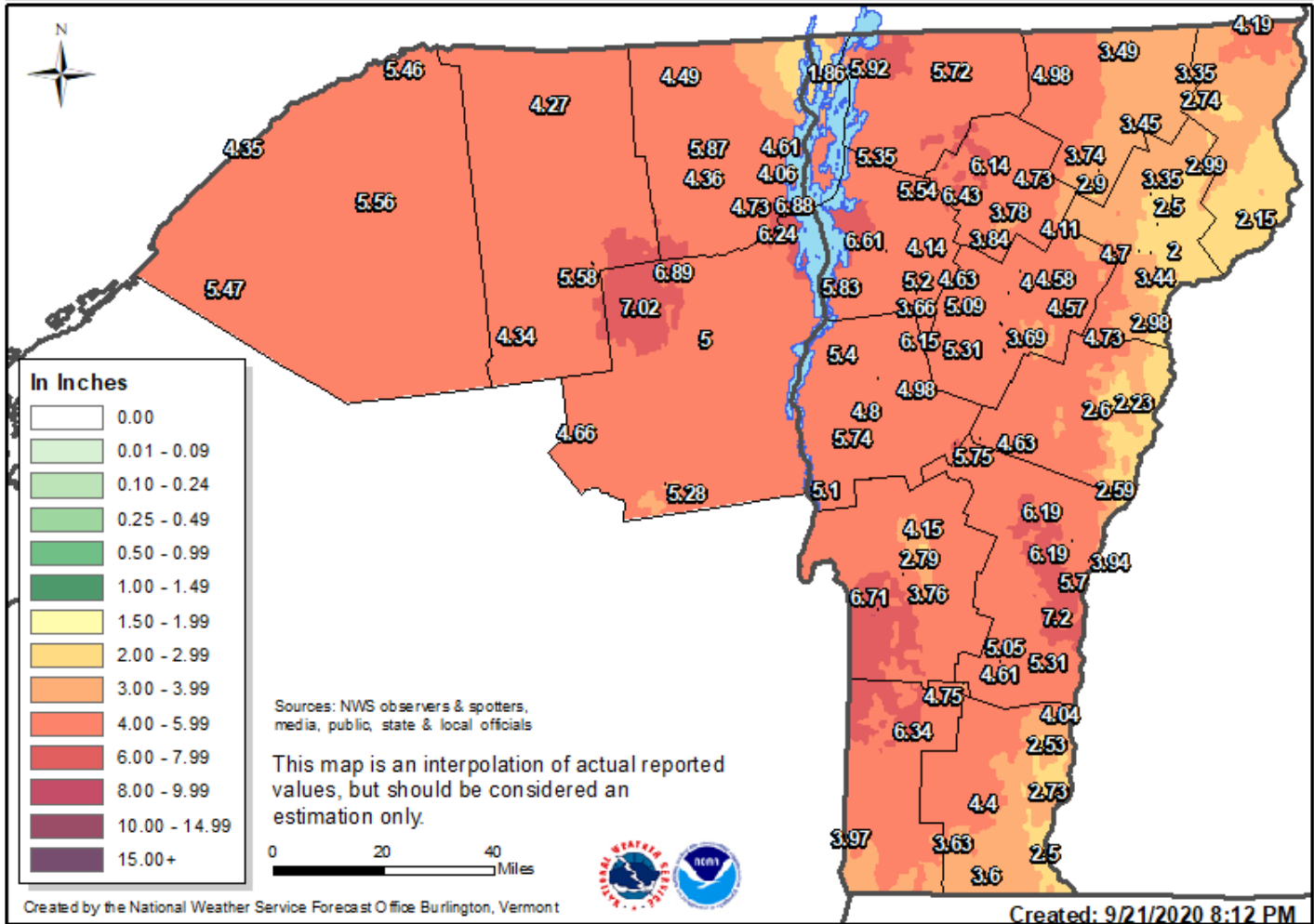


Figure 1: Monthly precipitation for August 2020.

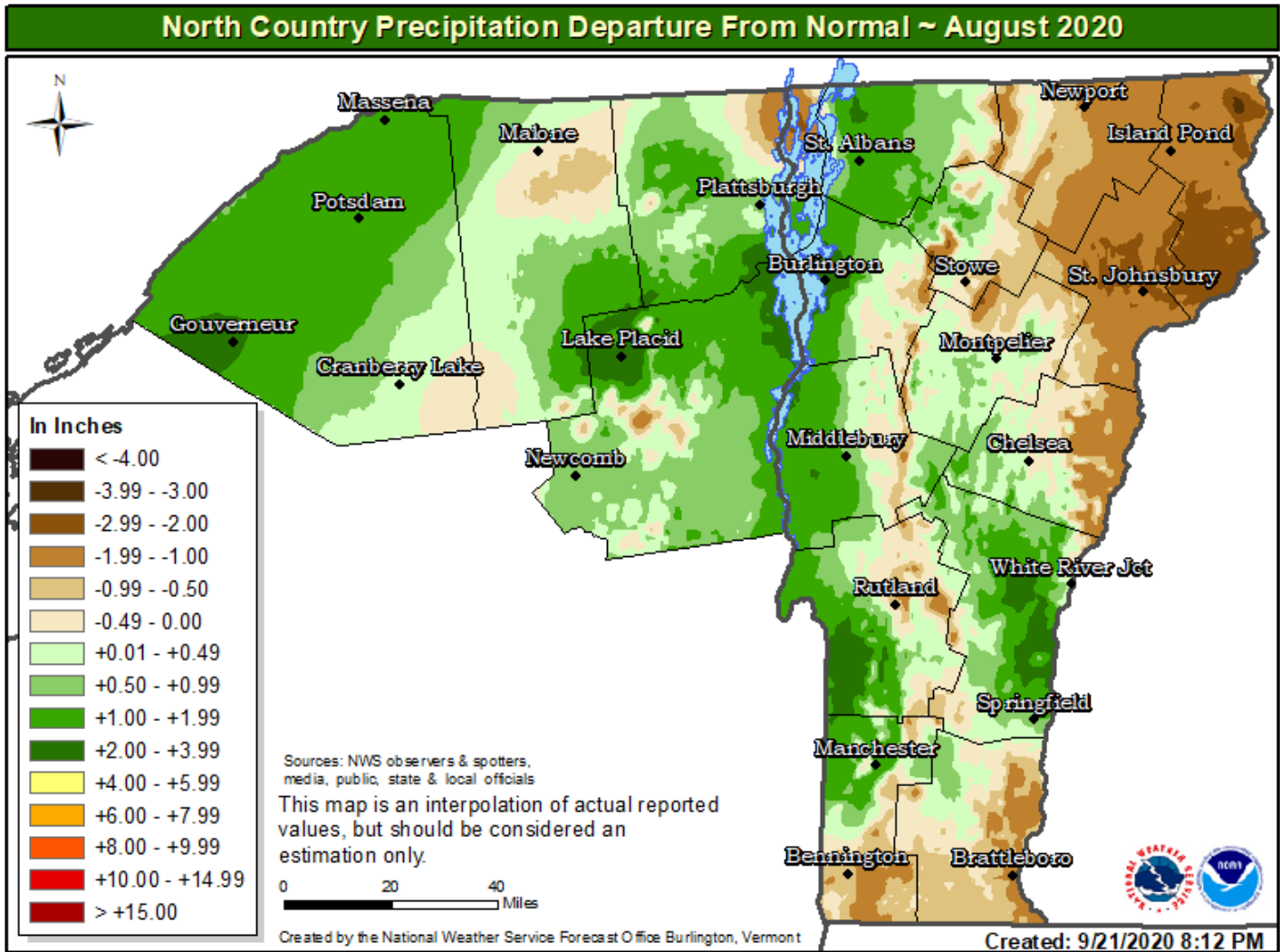


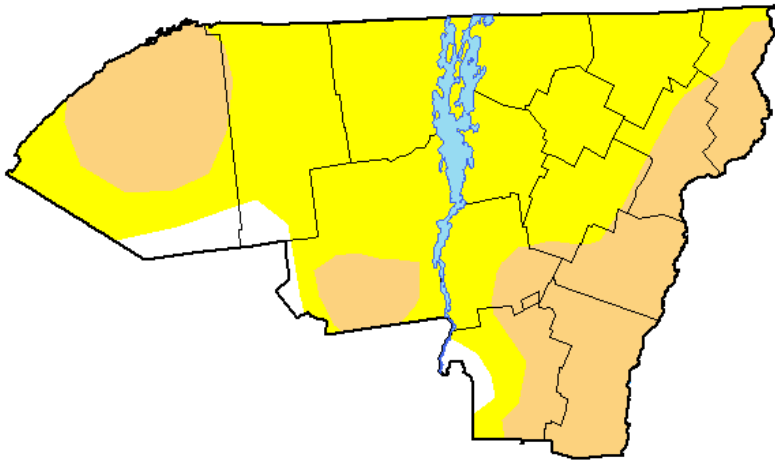
Figure 2: Monthly precipitation departure from normal for August 2020.

# U.S. Drought Monitor Burlington, VT WFO

**September 1, 2020**  
(Released Thursday, Sep. 3, 2020)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	3.75	96.25	35.20	0.00	0.00	0.00
<b>Last Week</b> 08-25-2020	0.19	99.81	47.08	0.00	0.00	0.00
<b>3 Months Ago</b> 06-02-2020	49.86	50.14	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> 12-31-2019	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> 10-01-2019	41.13	58.87	0.00	0.00	0.00	0.00
<b>One Year Ago</b> 09-02-2019	50.92	49.08	0.00	0.00	0.00	0.00



**Intensity:**

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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>

**Author:**

Richard Tinker  
CPC/NOAA/NWS/NCEP

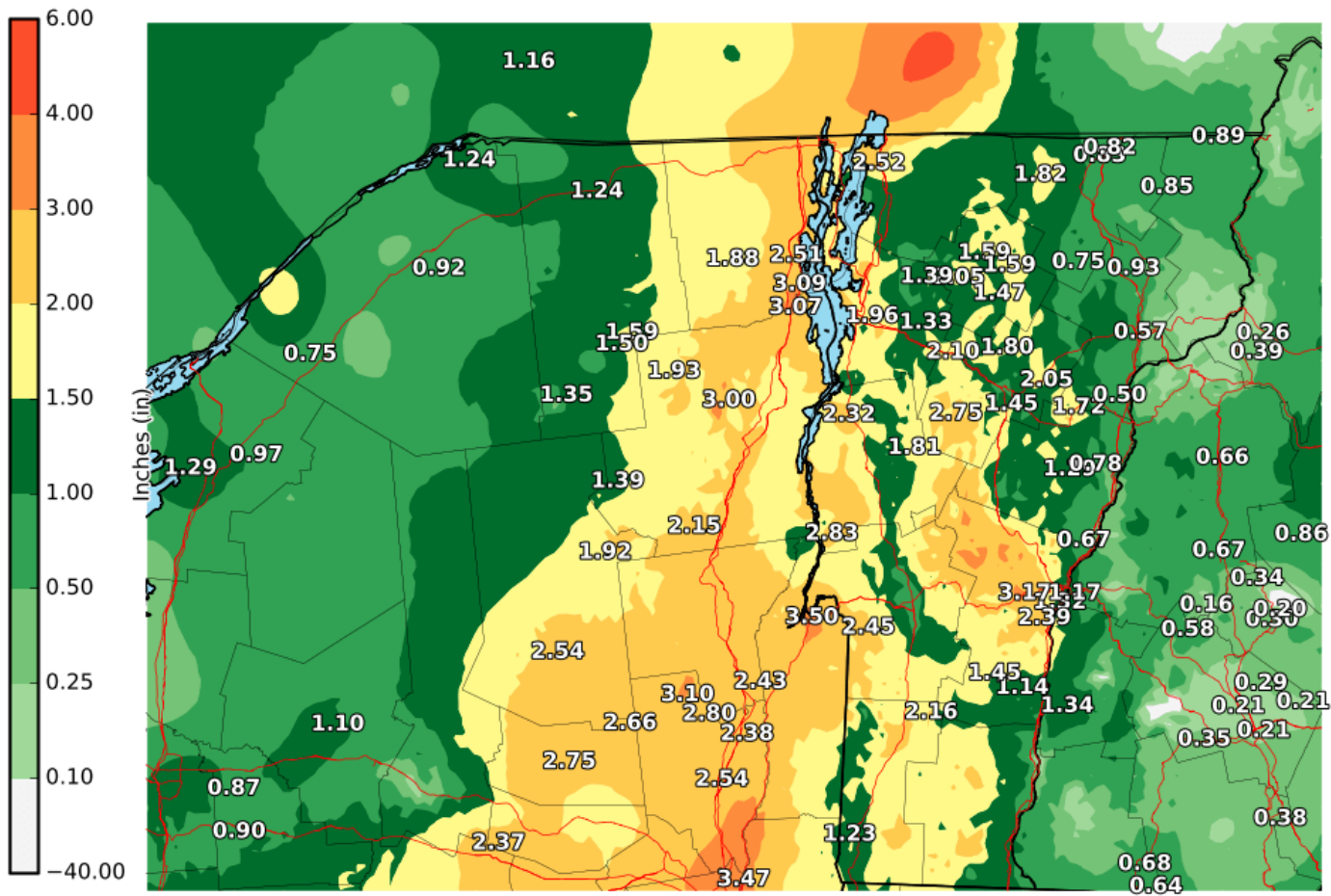


[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

Figure 3: US Drought Monitor status for BTV HSA on Sept 1, 2020.

## 24-hr Precipitation Totals

Valid: 7 AM Tuesday August 04, 2020 to 7 AM Wednesday August 05, 2020



**National Weather Service**  
 Burlington, VT  
 08/05/2020 11:03 AM EDT

**Follow Us:**     
[weather.gov/Burlington](https://weather.gov/Burlington)

Figure 4: Rainfall totals from remnants of TC Isaias.

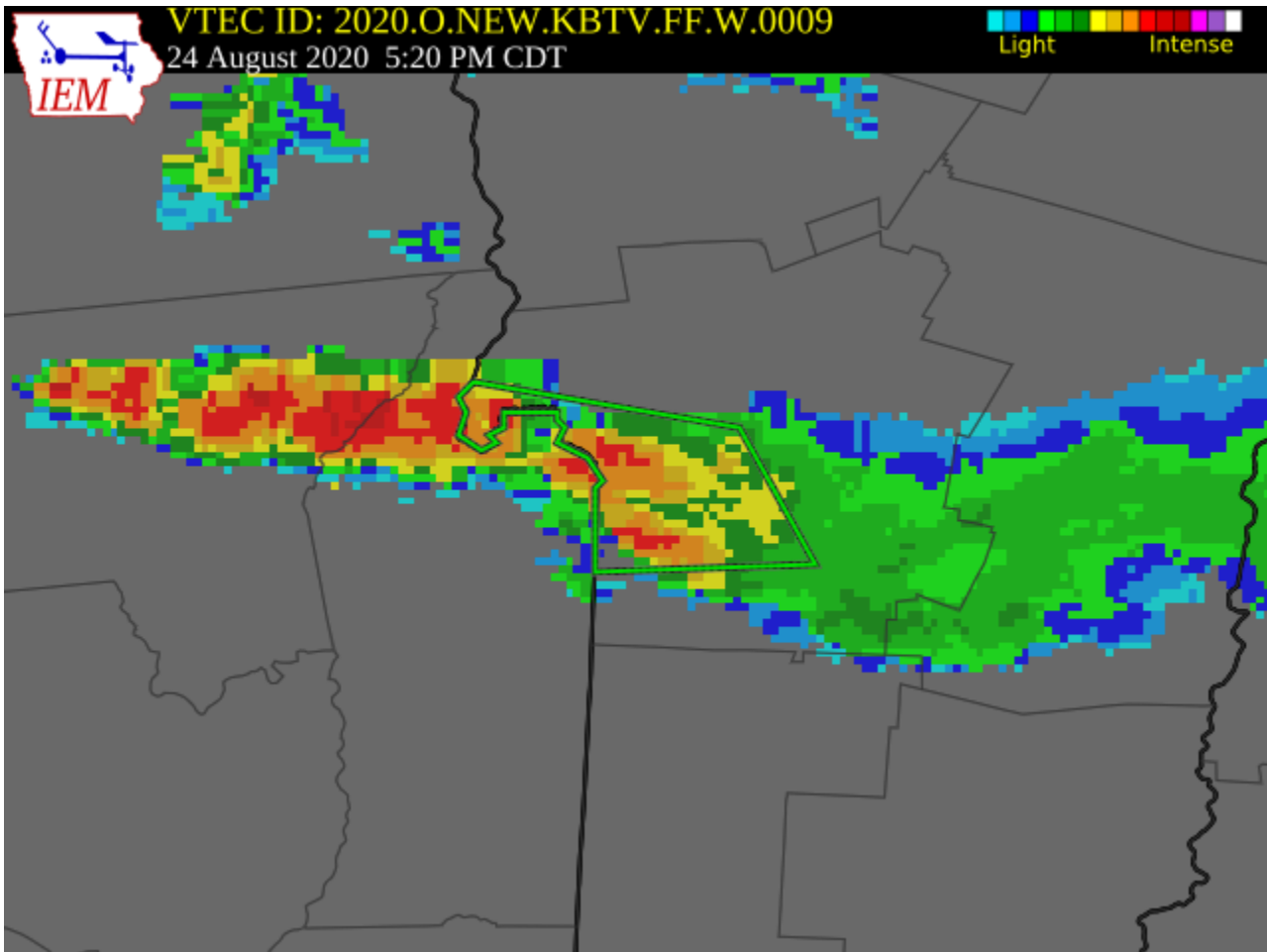


Figure 5: Radar image of nearly stationary thunderstorm and flash flood polygon on August 24, 2020.