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| 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 |
| | | MONTHLY REPORT OF HYDROLOGIC CONDITIONS |
| TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283 | | REPORT FOR: MONTH YEAR August 2014 |
| | | SIGNATURE /s/ Gregory A. Hanson, SH WFO BTW DATE 9/11/2014 |

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.

August saw isolated areas of heavy rainfall with two minor flood incidents set against a backdrop of below normal precipitation for much of the area during the month. In general most of the rain fell in the first half of the month, with rivers in recession for the last.

August opened with scattered showers and thunderstorms in a moist airmass conducive to heavy rainfall rates. Both Essex counties in Burlington's hydrologic service area received over an inch of rain (Figure 1). Essex County Vermont received torrential rain, and a flash flood warning was issued for the central part of the county near Nulhegan. No flooding was reported in this very rural area.

On August 5 thunderstorms developed along a cold front, producing heavy rain in west central Vermont. No flooding resulted.

The most significant hydrologic event occurred on late on August 13, when an area of low pressure moved west to east across the area. Rain began late on the 12th and continued into the 13, and a flash flood watch was issued for the overnight period of August 12 into August 13 for Eastern Rutland, Orange, and Windsor Counties in Vermont.

Flooding occurred in Essex County New York, where over 2 inches of rain in the East Branch Ausable basin caused a sharp rise on the river gage at Ausable Forks New York. At one point the river rose 3.32 feet in one hour, on its way to cresting at its flood stage of 7.0 feet at 04:45 UTC on August 14 (Figure 3). A River Flood Warning was issued with a 1 hour 21 minute lead time. Areas in the watch boundary received upwards of 2 inches of rain (Figure 2), but there was no flooding inside the watch area.

High pressure settled over Vermont and northern New York through mid-month, with rivers generally in recession.

The final significant rainfall in August was on August 21, when an area of low pressure moved through the area. The heaviest rain fell over the northwest sloped of the northern Adirondacks, in southern St. Lawrence County into central Franklin County NY (Figure 4). A report of a flooded road was received near Canton NY, and a Flash Flood Warning was issued for central Franklin County but no flooding was reported.

Despite the heavy rainfall reports, overall August was below normal precipitation for most of the area. Only the St. Lawrence Valley and isolated areas of southern Essex County NY and southern Windsor County VT trended above normal. Elsewhere a large area was ½ to 2 inches below normal (Figure 5).

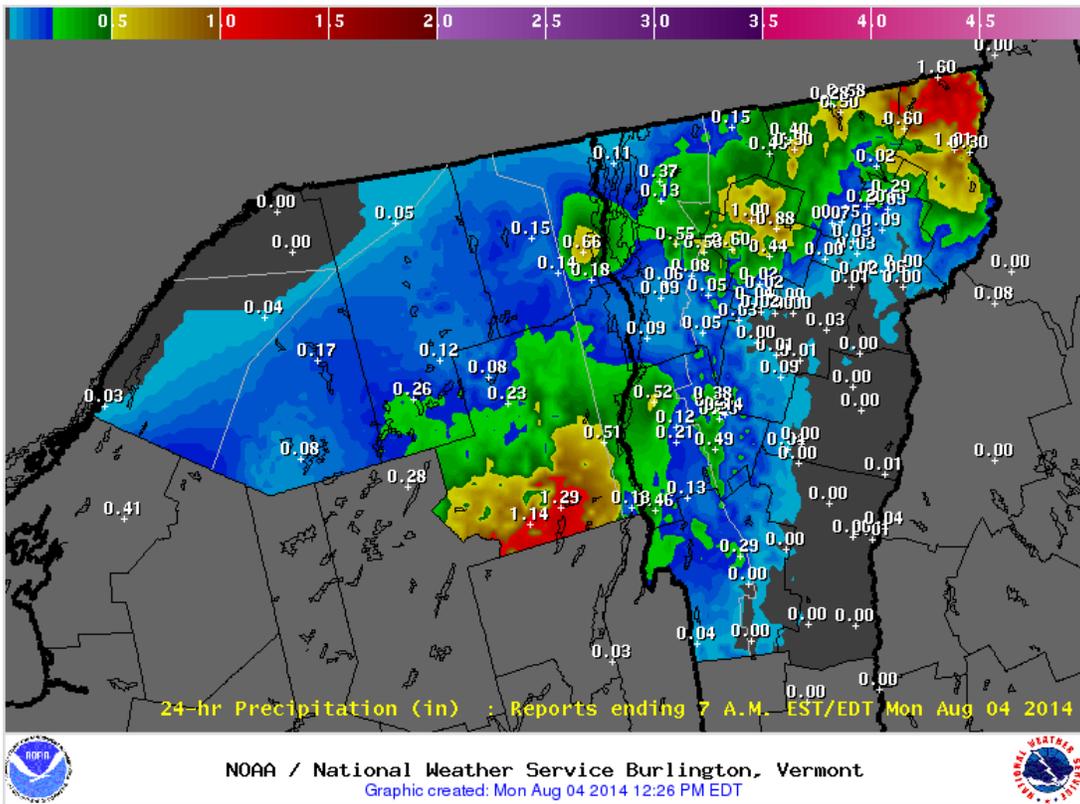


Figure 1, Heavy rainfall in Essex Counties in Vermont and New York

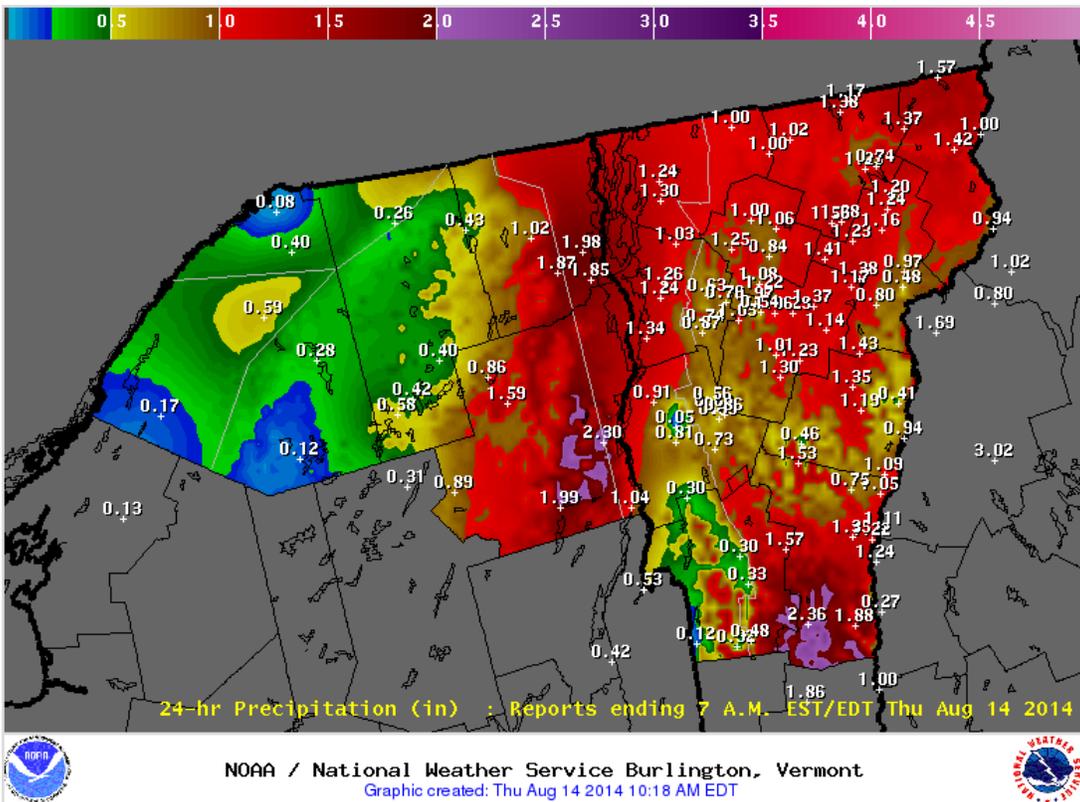


Figure 2, Over 2 inch rainfall in southern Vermont and Essex County NY

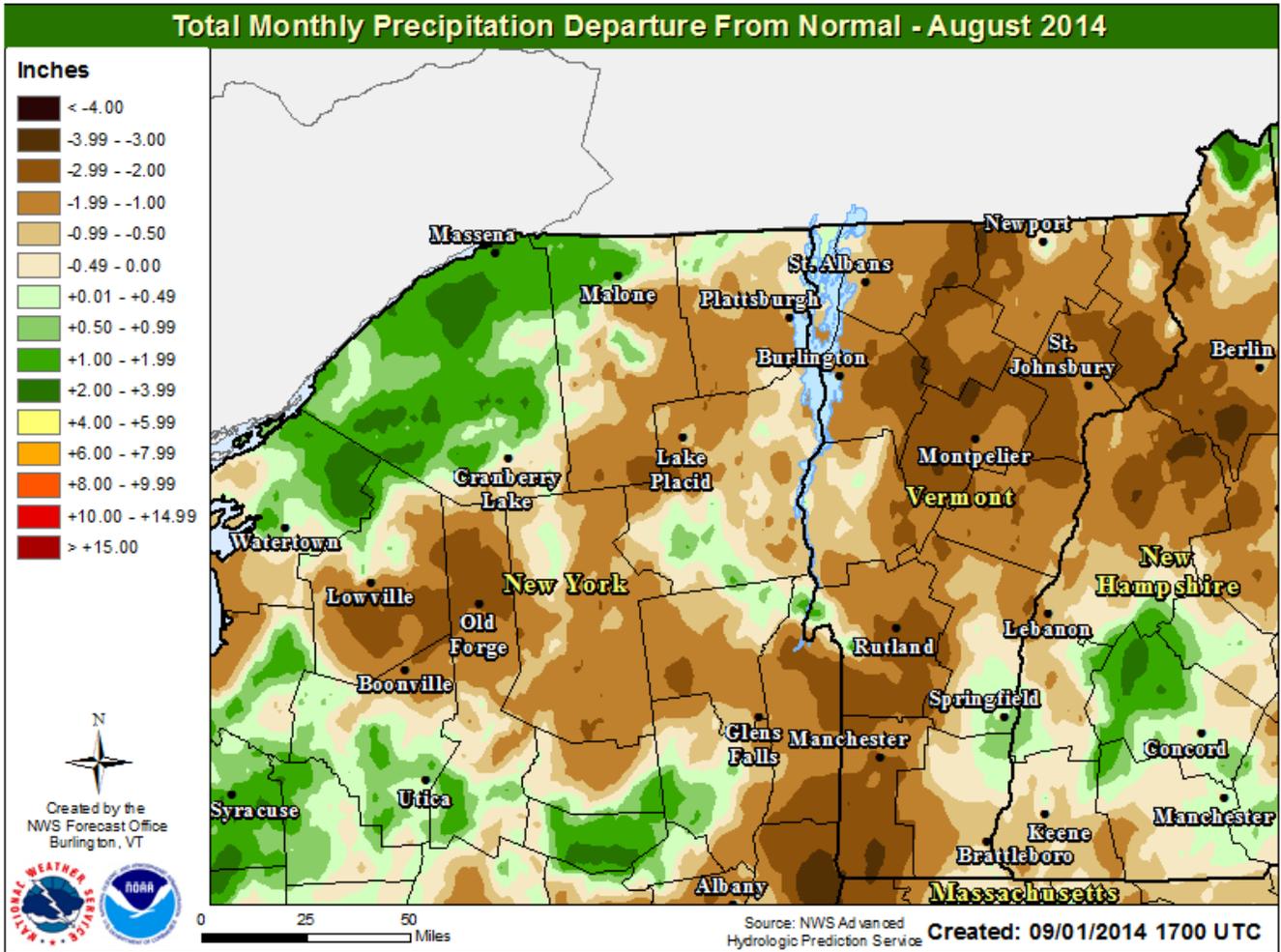


Figure 5.