

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
September 2012

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

SIGNATURE
/s/ John M. Goff, METEOROLOGIST WFO BTW

DATE
October 16, 2012

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.

The month of September 2012 was characterized by an overall shift to a wetter than normal pattern for the Burlington, VT HSA, with frequent frontal passages producing beneficial rainfall every 3 to 5 days. HSA monthly totals generally ranged from 4 to 6 inches, with notable exceptions including a swath of 6 to 10 inch amounts across far northern Vermont, and a smaller area of 6 to 8 inch amounts across the southern Green Mountains. This resulted in positive monthly departures of 0 to 2 inches across southern Essex County, New York into the southern portions of Vermont, and 2 to 4 inches in far northern New York into northern VT with customary variability. The most significant event of the month occurred late on the 4th into the morning hours of the 5th when tropical moisture associated with the remnants of Hurricane Isaac produced a swath of 2 to 4 inch rainfall totals across the northern portions of New York and northern Vermont. Within this band, a smaller area of heavier 4 to 6 inch amounts was observed across far north central Vermont, which led to sharp rises throughout the Missisquoi River watershed and produced a peak crest at the North Troy, VT gage (NTYV1) to minor flood level. As a result of the trend toward wetter weather, lower than normal streamflow levels began to recover to more typical late summer climatological levels.

**Significant River Crests
September 2012
WFO Burlington VT**

| Location | ID | Date | Time (UTC) | Crest Stage (ft) | Flood Stage (ft) |
|--|-------|----------|------------|------------------|------------------|
| Missisquoi R. at North Troy, VT | NTYV1 | 9/5/2012 | 2215Z | 9.25 | 9.0 |
| Barton R. at Coventry, VT | COVV1 | 9/6/2012 | 0630Z | 6.99 | 8.0 |
| E. Br. Ausable R. at Ausable Forks, NY | ASFN6 | 9/5/2012 | 1300Z | 6.22 | 7.0 |

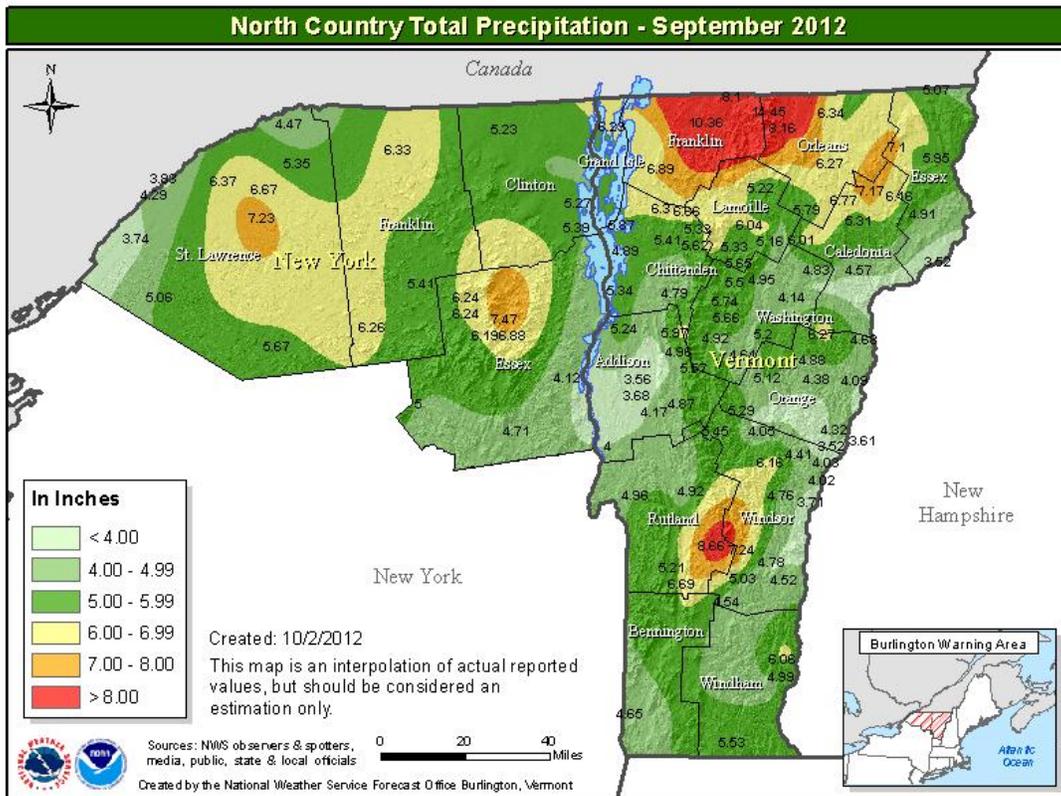


Figure 1: NWS Burlington HSA total precipitation (September 2012).

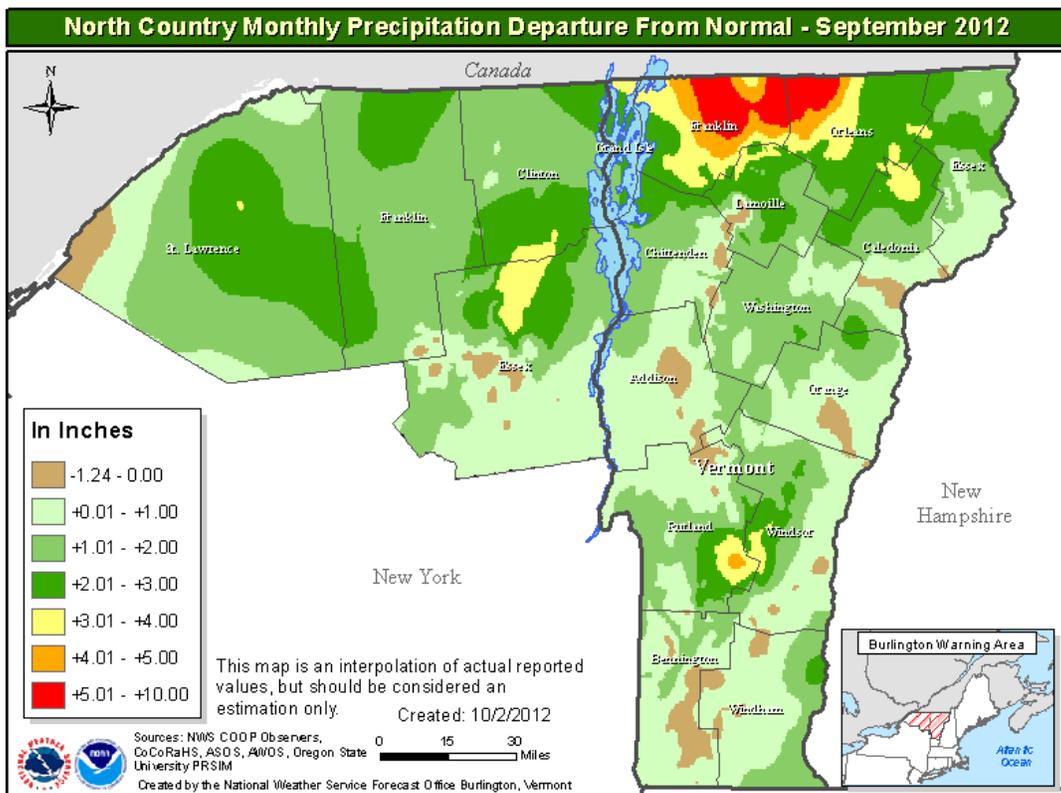


Figure 2: NWS Burlington HSA monthly precipitation departures (September 2012).

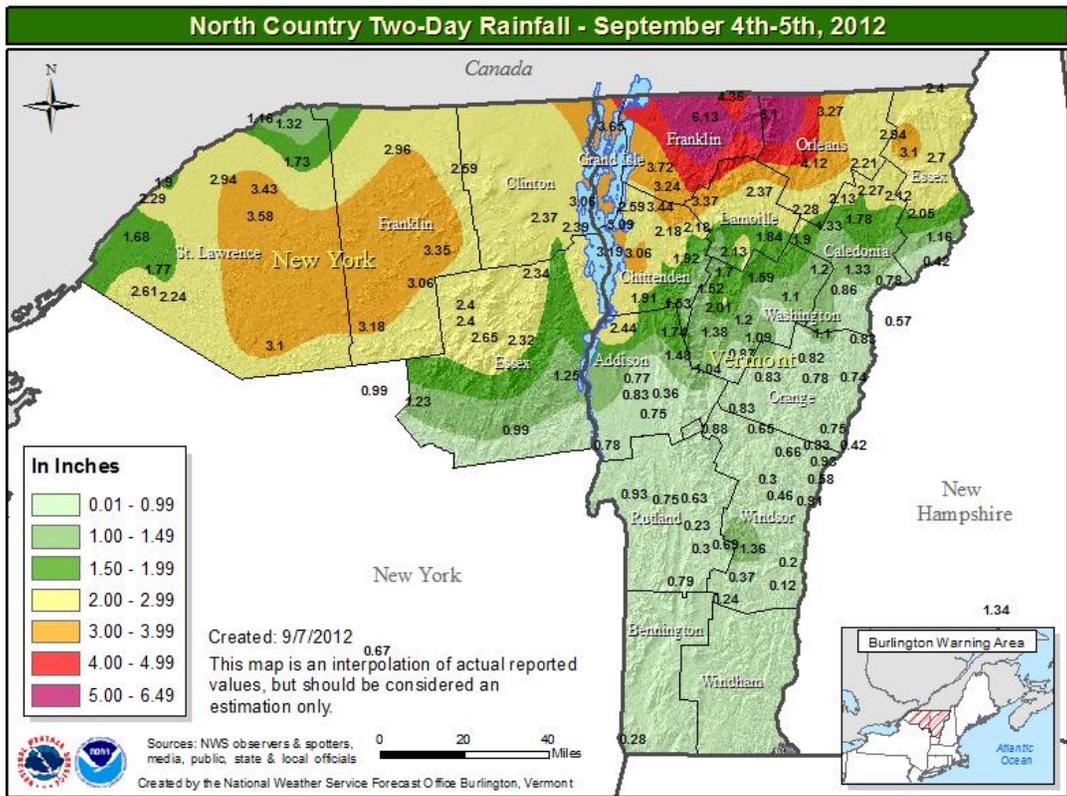


Figure 3: Observed rainfall totals from remnants of Hurricane Isaac on September 4 and 5, 2012. Excessive 4 to 6 inch totals across far northern Vermont led to minor flooding in portions of the Missisquoi River basin.