

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
MONTH            YEAR  
September      2013

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 BTV

DATE  
October 15, 2013

*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.

September 2013 was a relatively quiet month from a hydrological perspective as sensible weather conditions slowly transitioned into a late summer, early fall-like pattern. Precipitation was, for the most part evenly distributed throughout the month with frontal passages and their associated rainfall observed every 6 to 10 days interspersed by long dry periods. Monthly totals ranged in general from 2 to 6 inches across the Burlington Hydrologic Service Area, which were within  $\pm 2$  inches of normally observed values.

The most significant event of the month occurred from September 10<sup>th</sup> through the 13<sup>th</sup>, during which a series of slow moving frontal boundaries interacted with deep subtropical moisture to produce several rounds of showers and heavier thunderstorms. An average of 1 to 3 inches of rainfall was observed across the area, with scattered totals in excess of 4 inches, some of which fell during a short period of time on the evening of the 11<sup>th</sup>. During this time Flash Flood Warnings were issued for portions of Washington and Orange counties in Vermont, and St. Lawrence County in northern New York, however no flooding was reported. By the end of the month, a large high pressure cell established itself across the region leading to a full week of dry weather from the 23<sup>rd</sup> onward.

**Monthly Precipitation Totals and Departures  
For Selected Automated Observing Sites  
September 2013**

Location	ID	Total	Normal	Departure	% of Normal
Burlington, VT	KBTV	4.74	3.64	+1.10	130
Montpelier, VT	KMPV	4.32	3.12	+1.20	138
Springfield, VT	KVSF	2.98	3.76	-0.78	79
St. Johnsbury, VT	K1V4	3.65	3.39	+0.26	108
Morrisville, VT	KMVL	---	---	---	---
Rutland, VT	KRUT	3.03	n/a	n/a	n/a
Plattburgh, NY	KPBG	2.91	n/a	n/a	n/a
Saranac Lake, NY	KSLK	3.57	3.29	+0.28	109
Massena, NY	KMSS	5.44	3.65	+1.79	149

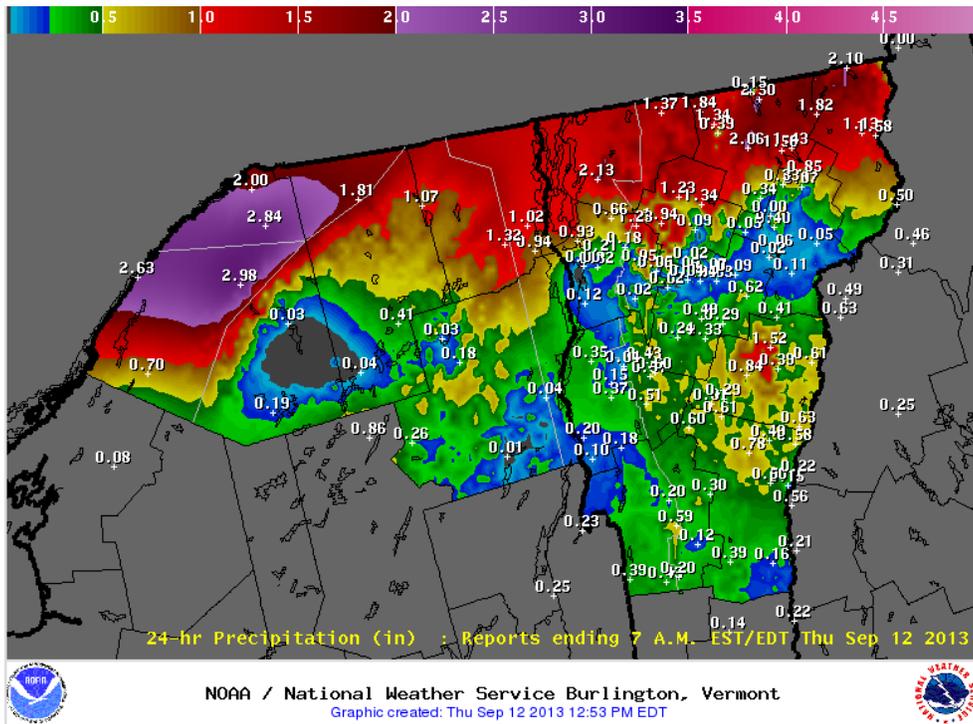


Figure 1. 24 hour precipitation totals across the NWS BTB HSA ending 7 A.M. EDT September 12, 2013 showing some of the heavier rainfall across St. Lawrence County, NY which prompted Flash Flood Warnings for that area.

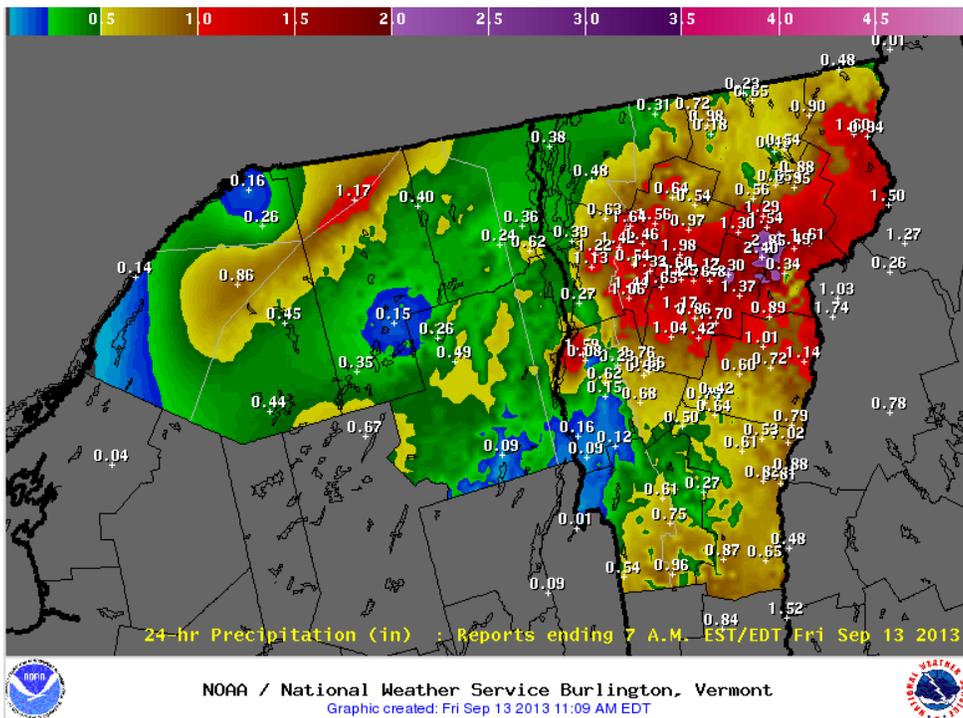


Figure 2. 24 hour precipitation totals across the NWS BTB HAS ending 7 A.M. EDT September 13, 2013 showing additional moderate to locally heavier rainfall. The rainfall was part of a 4 day event during which many locations saw precipitation amounts in excess of 2 inches.