

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

REPORT FOR:
MONTH YEAR

May 2012

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

SIGNATURE
/s/ Jessica A. Neiles, Meteorologist WFO BTW

DATE
June 14, 2012

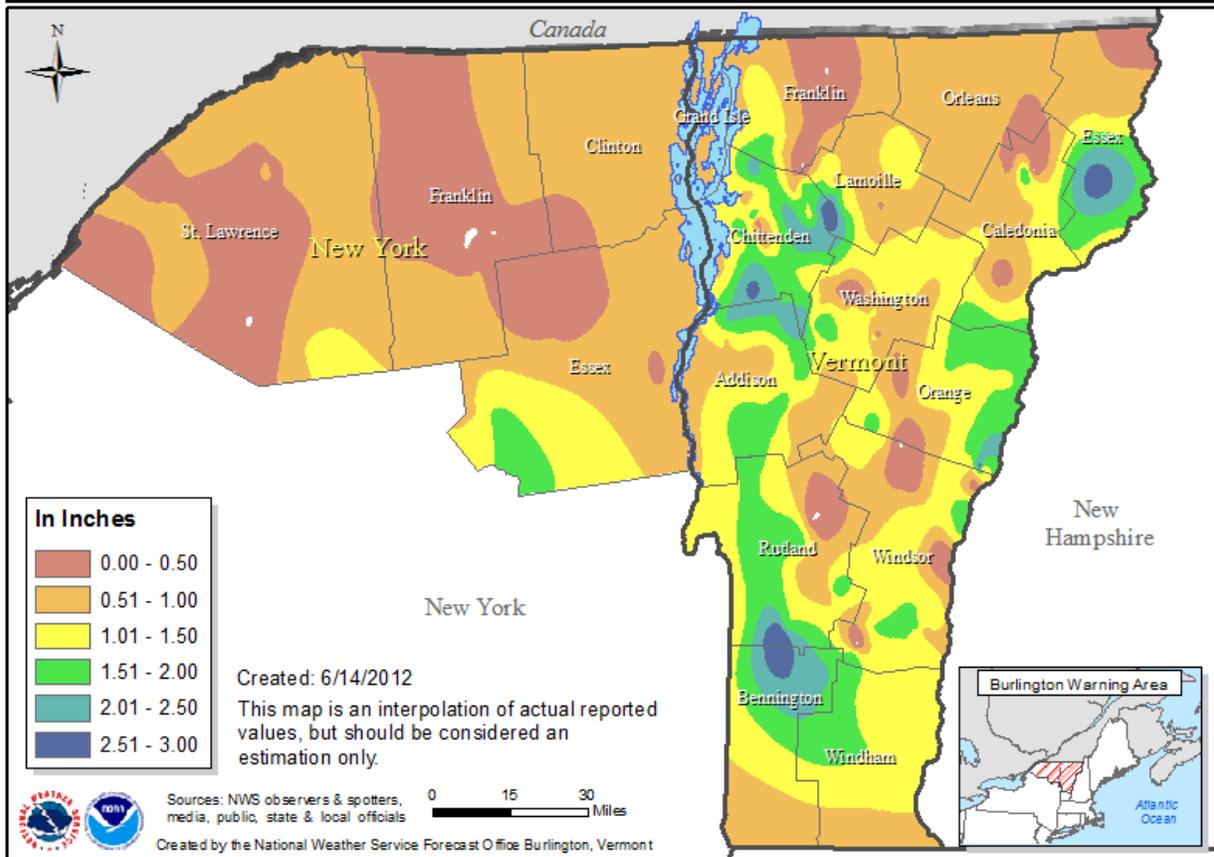
When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

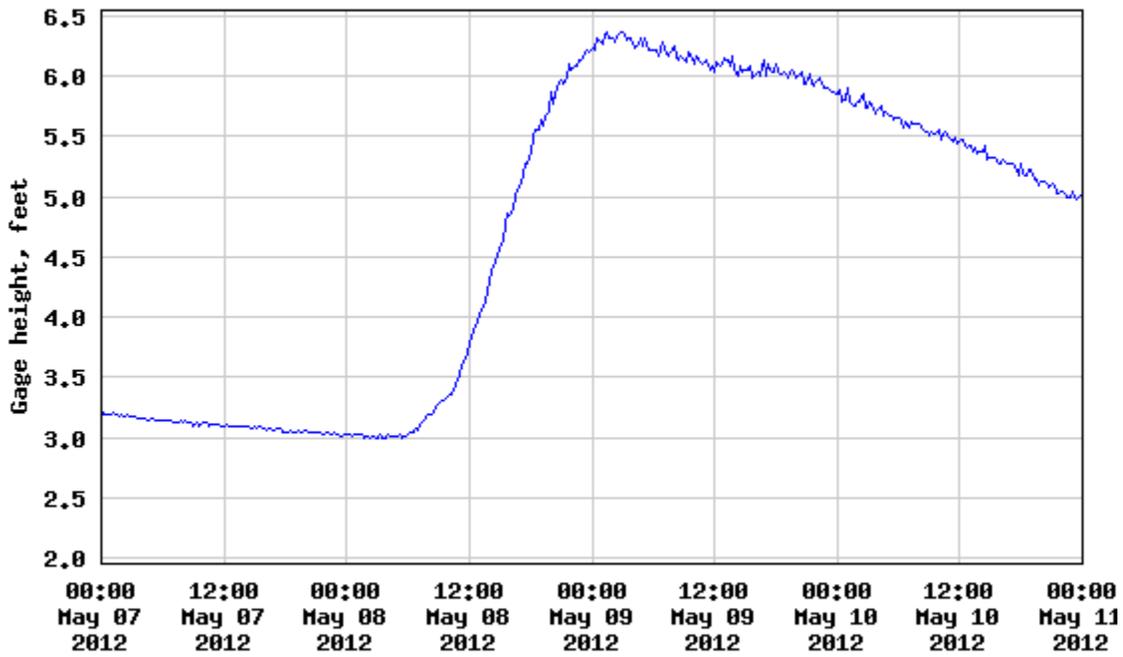
May 2012 was an active month in the Burlington, VT CWA with all areas receiving at least two inches of rain through the month, and some locations reporting over eight inches of precipitation. There were several multiple-day precipitation events. Despite a very wet month with numerous heavy rainfall events, no rivers reached flood stage.

May 8-10 a low pressure system with associated warm front brought moderate rainfall to the North Country, and then was followed by a couple days of unsettled weather associated with an upper trough situated over the region. Moisture feed from the Gulf of Mexico, along with a developing mid-level jet which enhanced lift along the warm front contributed to this rain event. Three day totals from this weather system ranged from around half an inch to over 2.5" of rain in isolated locations. Rutland County, Vermont in particular had pretty widespread rainfall. The Otter Creek in Rutland responded with a rise of more than three feet in a little over 12 hours.

3-Day Precipitation Totals from May 8-10, 2012

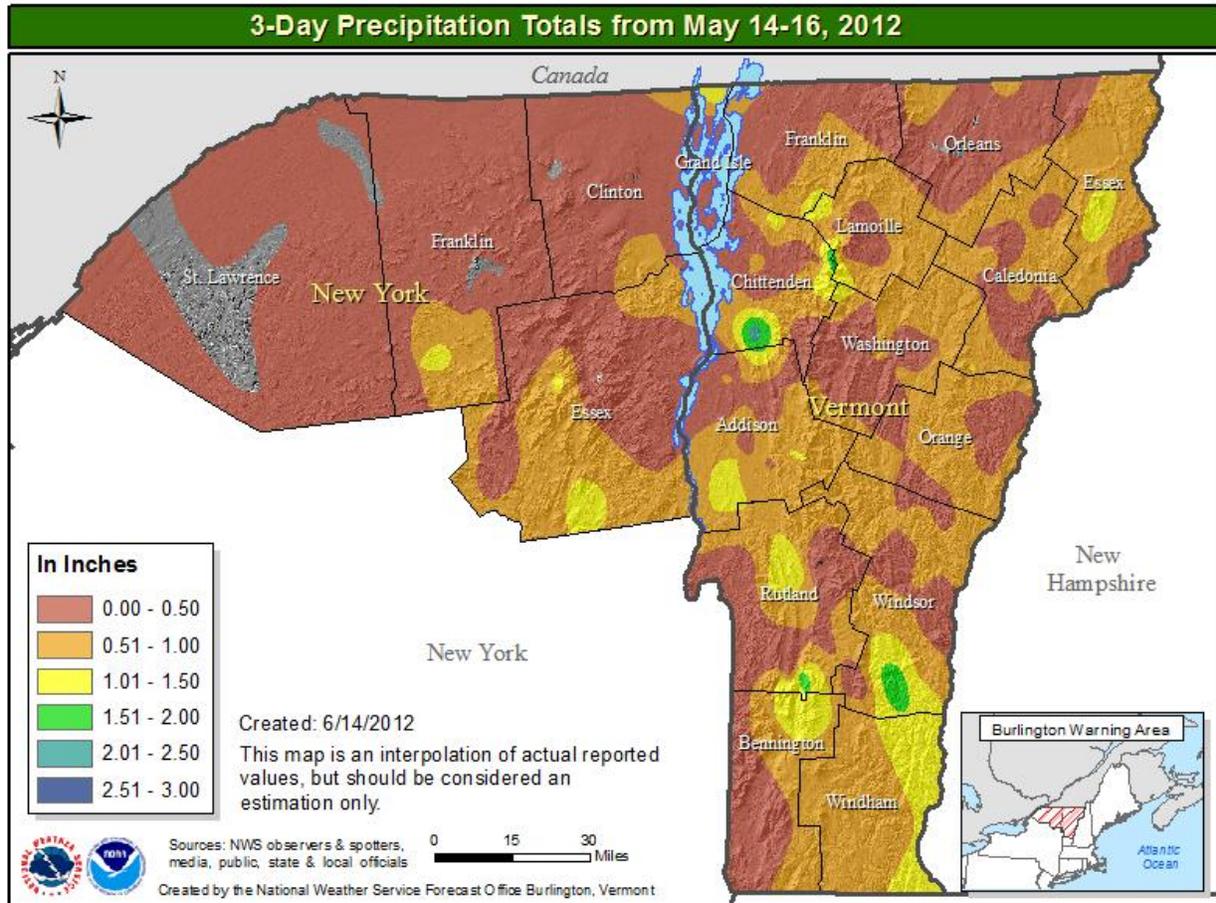


USGS 04282000 OTTER CREEK AT CENTER RUTLAND, VT



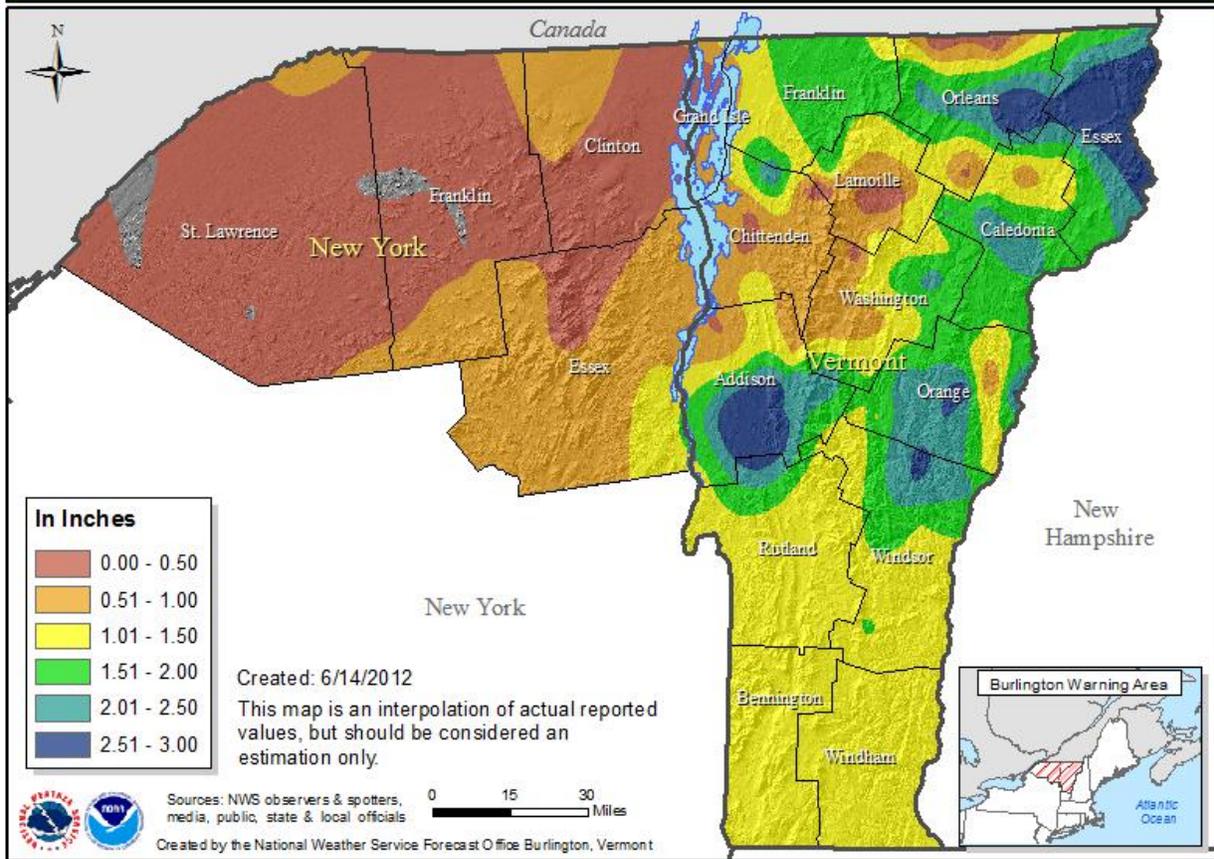
----- Provisional Data Subject to Revision -----

May 14-16 there was a low pressure system along the East coast with associated frontal boundary kept clouds and moisture over the Northeastern US. During this time light rain fell intermittently for about three days. Rainfall totals from these three days ranged from about a half an inch to over two inches in isolated locations.

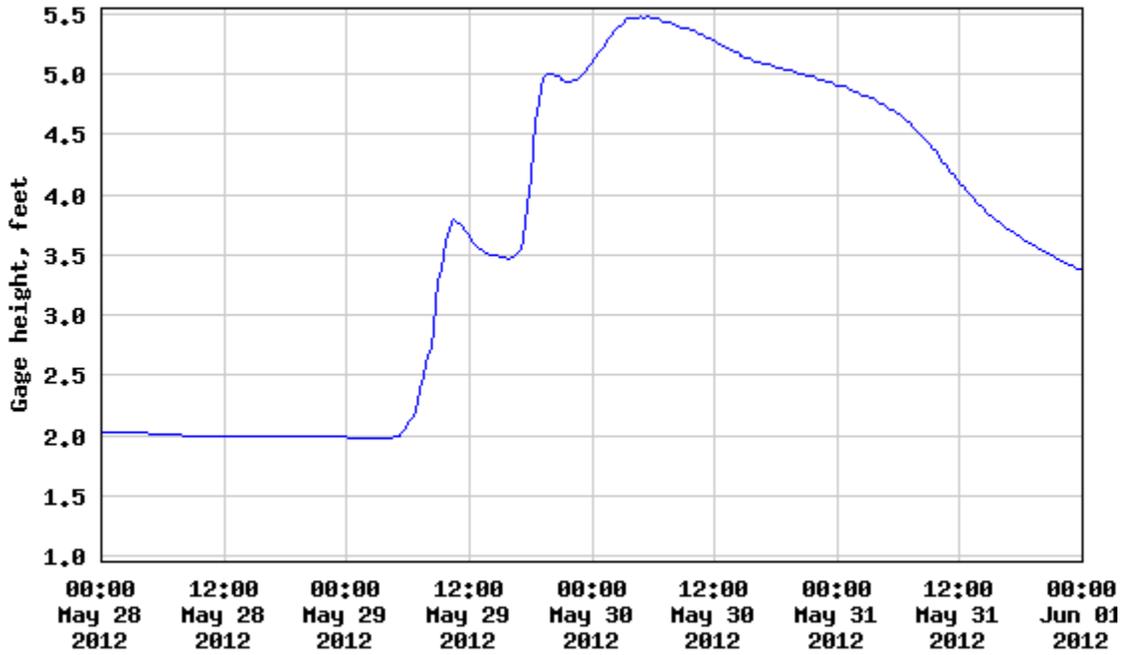


May 28 and 29 were two very active days, with severe weather and flash flooding. During the overnight hours of the 28th an area of showers and thunderstorms moved across the North Country. By Tuesday morning many areas had over an inch of rainfall already. Severe thunderstorms moved across the area later Tuesday afternoon associated with a strong cold front approaching from the west. Some thunderstorms were training and produced flash flooding in Addison County Vermont, as well as across Northern Vermont in northern Lamoille and Orleans Counties. The two day rainfall totals ranged from a half an inch or less across Northern New York, up to three inches in parts of Eastern Vermont and also Addison County Vermont. Areas where flash flooding occurred likely had even higher rainfall totals, with the heaviest rain probably missing rain gages. Rivers across Northern Vermont responded to this heavy rainfall with impressive rises on the Black River at Coventry and the Missisquoi River at North Troy. These rivers had 4 foot and 6 foot rises, respectively.

3-Day Precipitation Totals from May 28-30, 2012

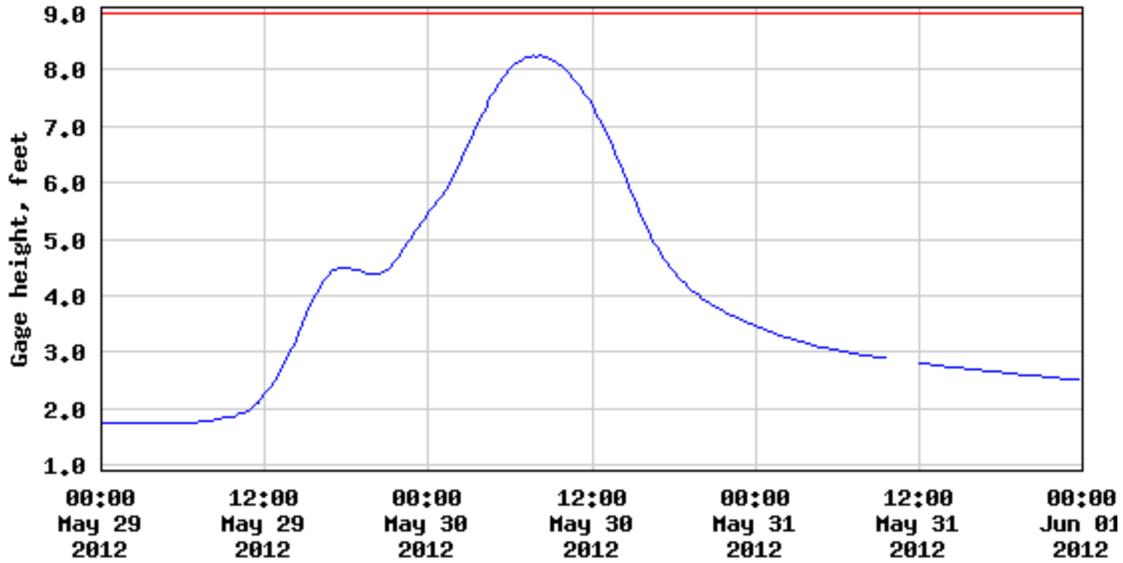


USGS 04296000 BLACK RIVER AT COVENTRY, VT



----- Provisional Data Subject to Revision -----

USGS 04293000 MISSISQUOI RIVER NEAR NORTH TROY, VT



----- Provisional Data Subject to Revision -----

- Gage height
- National Weather Service Flood Stage

North Country Monthly Precipitation Totals - May 2012

