

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

HYDROLOGIC SERVICE AREA (HSA)

Burlington VT

REPORT FOR:

MONTH YEAR

April

2017

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

SIGNATURE

/s/ Jessica Neiles, Meteorologist

DATE

May 15, 2017

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).

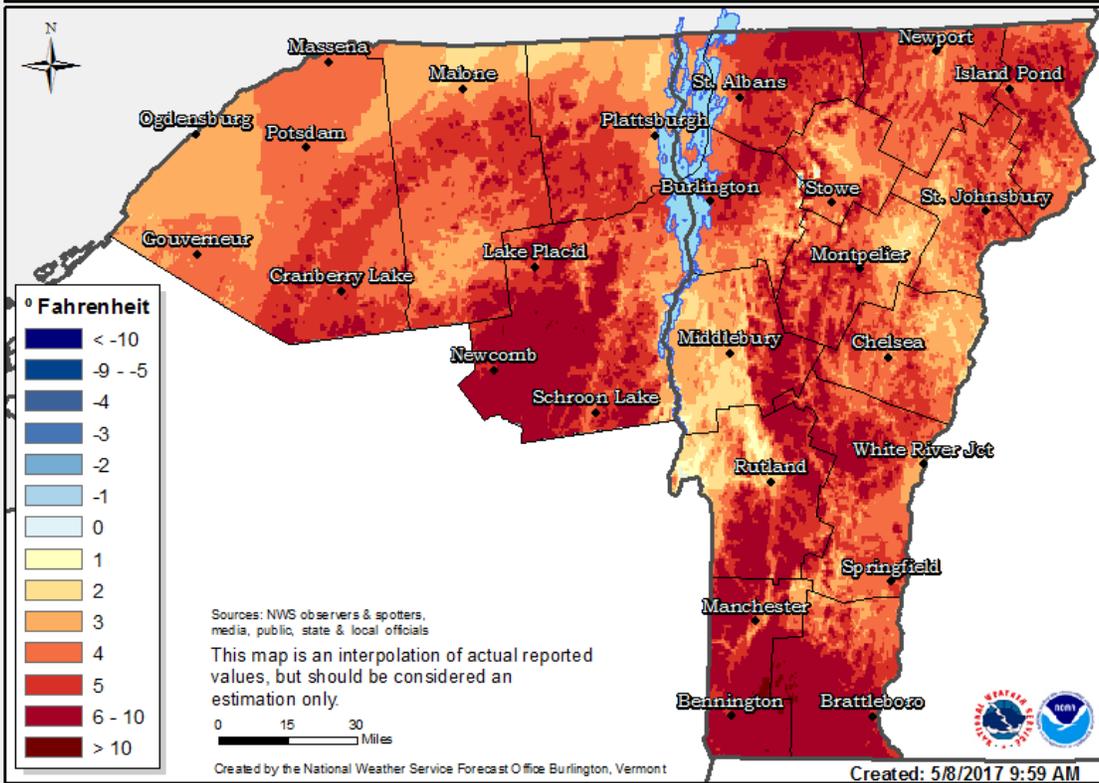
An X inside this box indicates that no flooding occurred within this hydrologic service area.

April 2017 was characterized by warm temperatures and above normal precipitation. Temperatures were about 2 – 10 degrees above seasonal normal, 4.7 here at BTV. April was much less active than March as far as flooding was concerned. April was also a wet month with above normal precipitation across nearly the whole forecast area, except for extreme Northeastern VT. Vermont had above normal snowfall while New York had below normal snowfall. Streamflow was normal to above normal across Northern New York and Vermont. Here in Burlington there was only snow on the ground for the first four days of the month. Lake Champlain level crept up towards flood stage but mostly stayed below it, and is now headed back down towards normal levels.

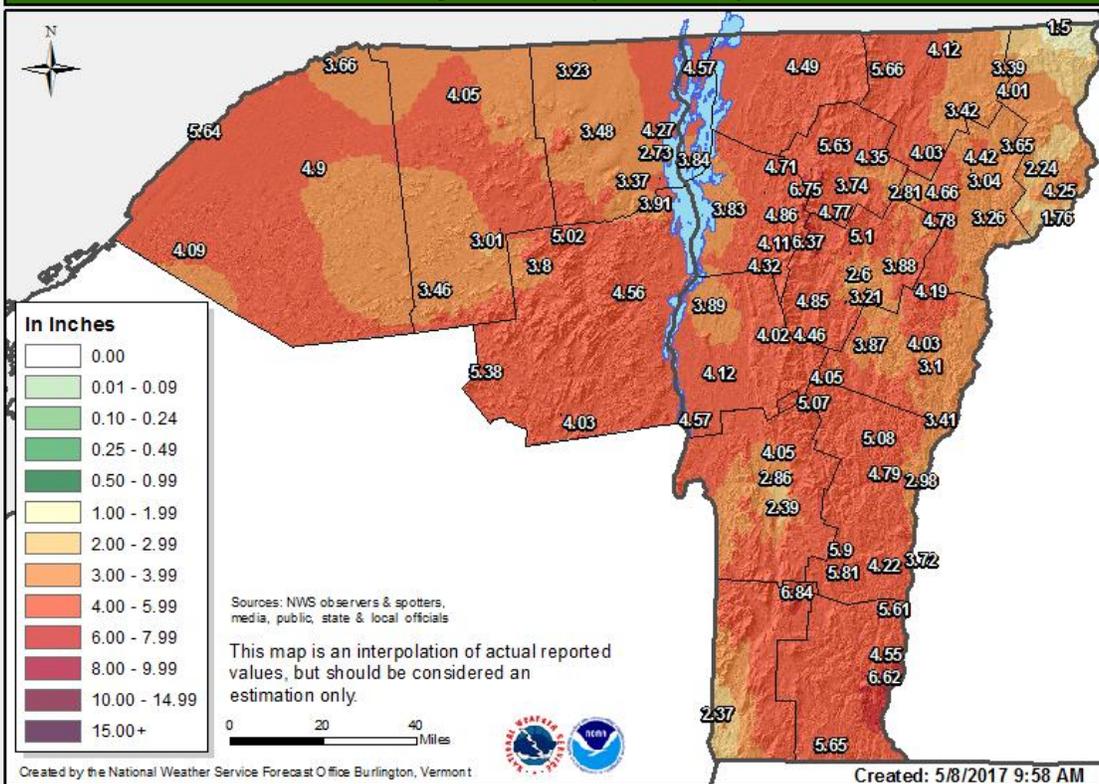
There were three periods of elevated river flows in the first half of the month. The first was in response to 3/4" to 1" of rainfall ahead of a cold front on April 6, combined with moderate snowmelt from temperatures in the 50s. Rivers saw sharp rises of 3 to 4 feet, and crested below action stage on the 7th. The second high flow event was on April 10-12, when snowmelt from daytime high temperatures in the 70s to lower 80s caused rises of 3 to 4 feet once again. Temperatures in the 70s on April 16 & 17 melted snow to combine with 1/2" to 3/4" rainfall in northern Vermont. Rivers in the north saw rises of several feet on the 16th, with crests on the 17th. While some rivers exceeded action stage, they remained below flood stage during the high flow events with only one exception. The Barton River at Coventry briefly went above flood stage for less than 24 hours around April 12 following the warm temperatures. There were only minor flood issues reported. Rivers generally receded for the second half of the month.

Lake Champlain at Rouses Point also briefly went above flood stage for less than 24 hours on April 19, when strong southerly winds pushed the seiche up the already high lake and the gage rose over 100 feet.

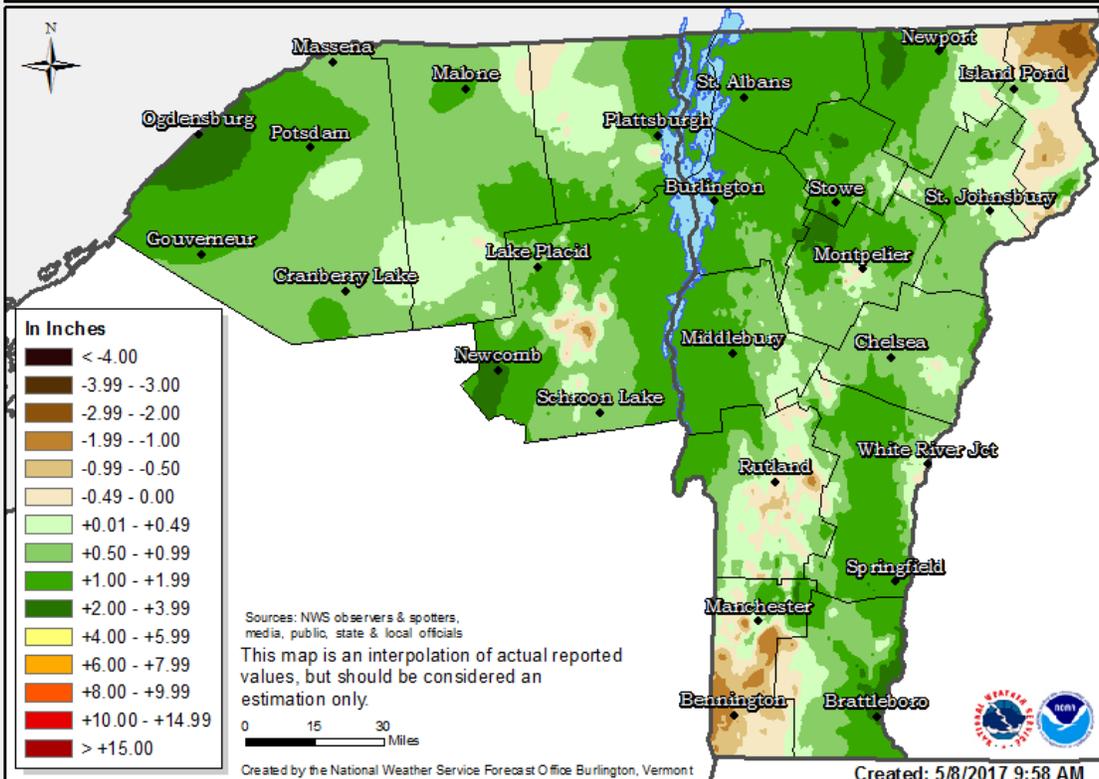
North Country Temperature Departure From Normal ~ April 2017



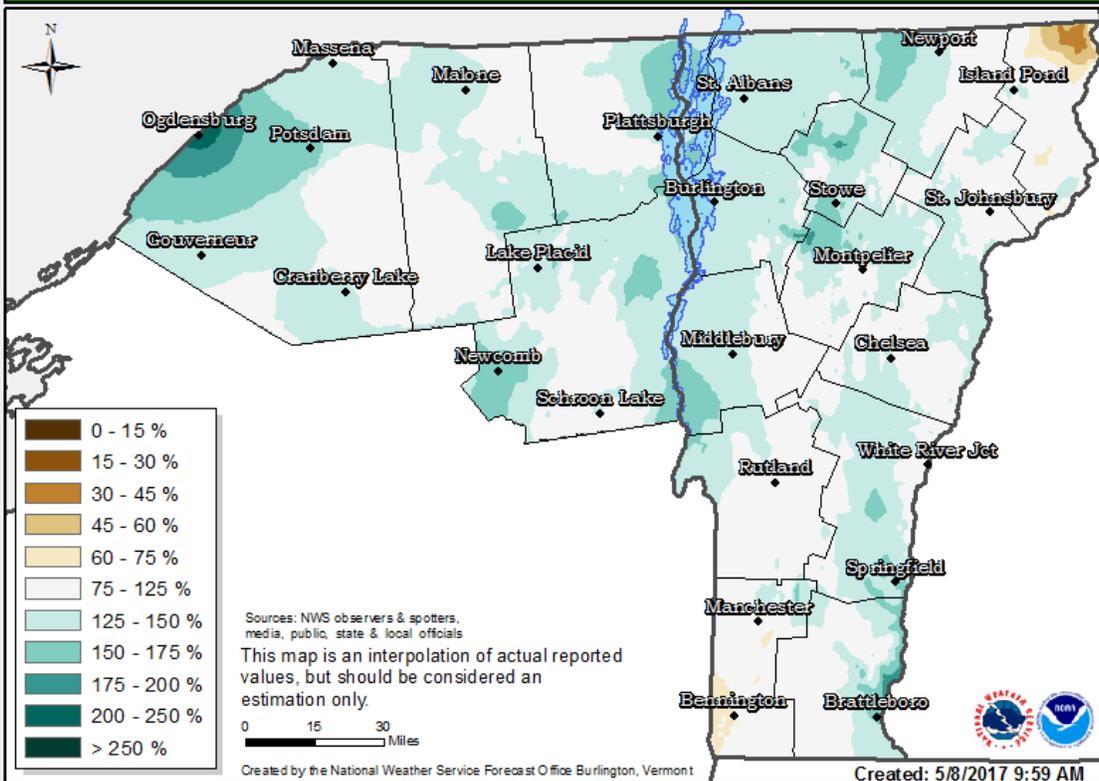
North Country Total Precipitation ~ April 2017



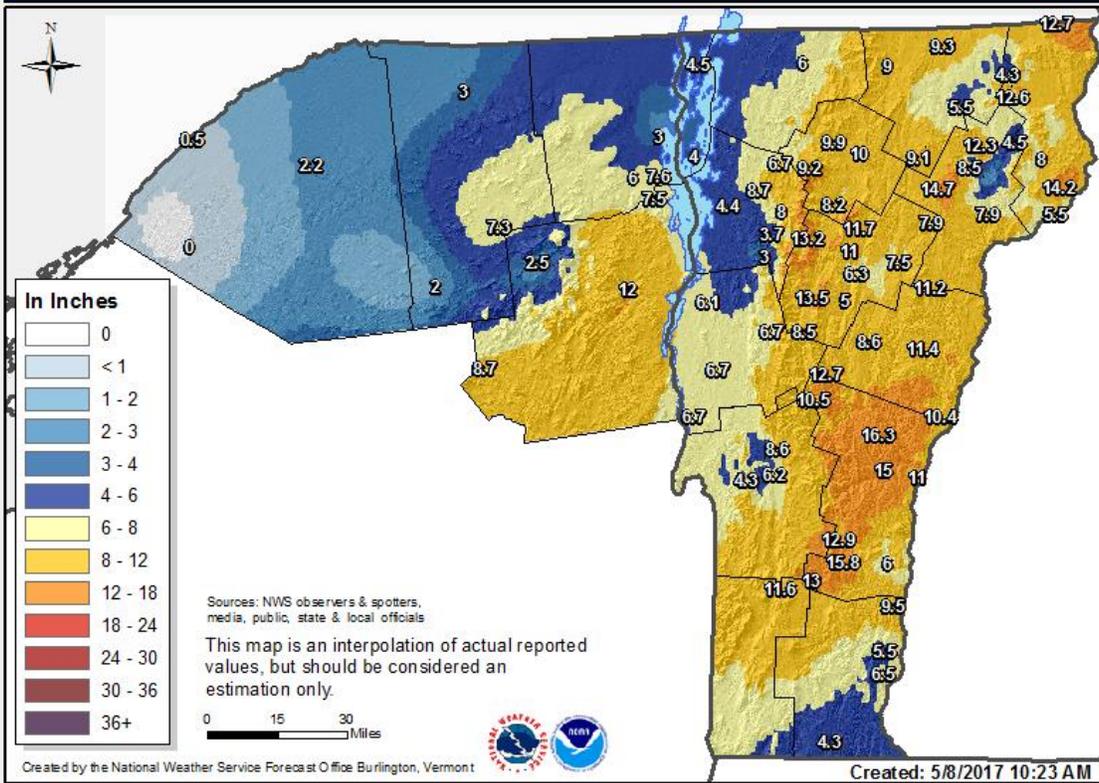
North Country Precipitation Departure From Normal ~ April 2017



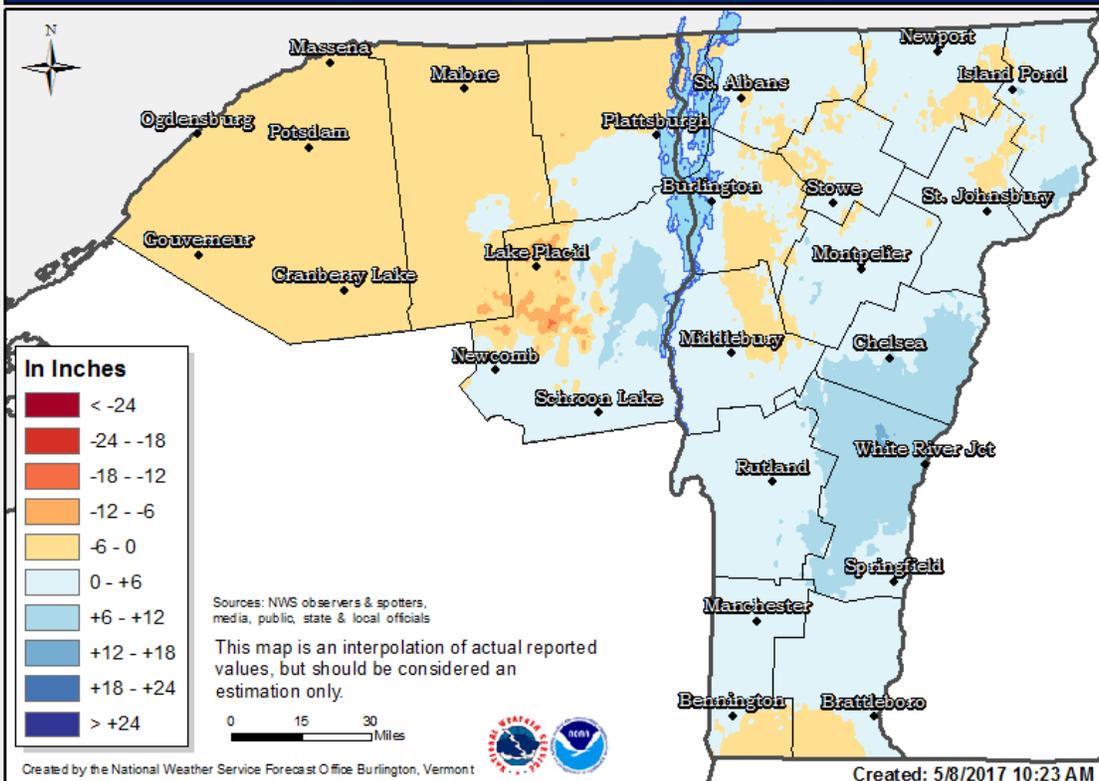
North Country Precipitation Percent of Normal ~ April 2017



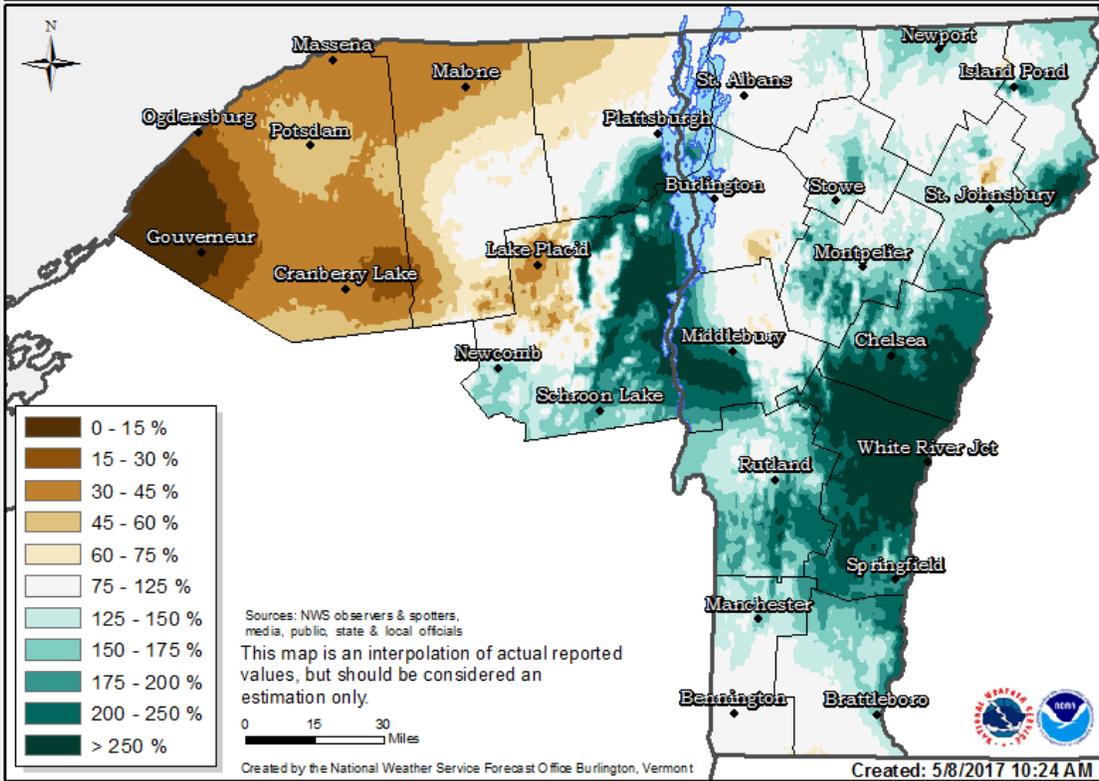
North Country Total Snowfall ~ April 2017



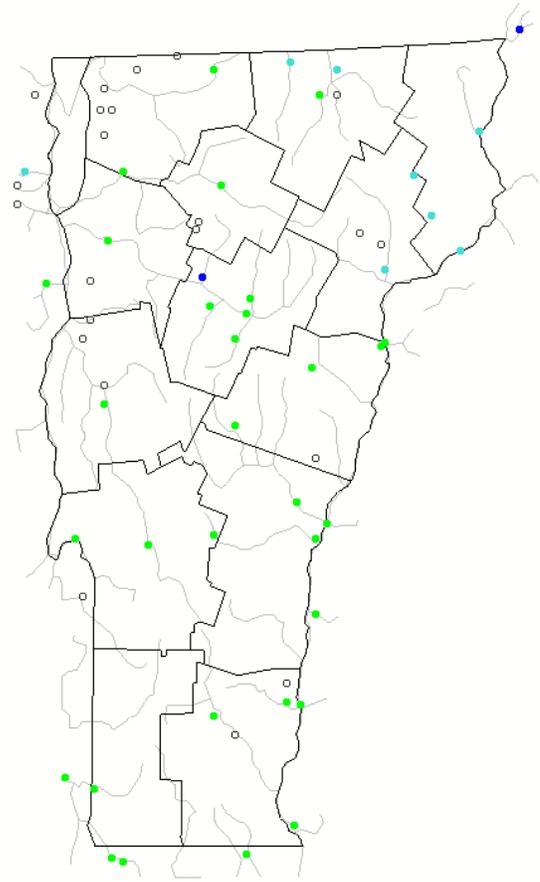
North Country Snowfall Departure From Normal ~ April 2017



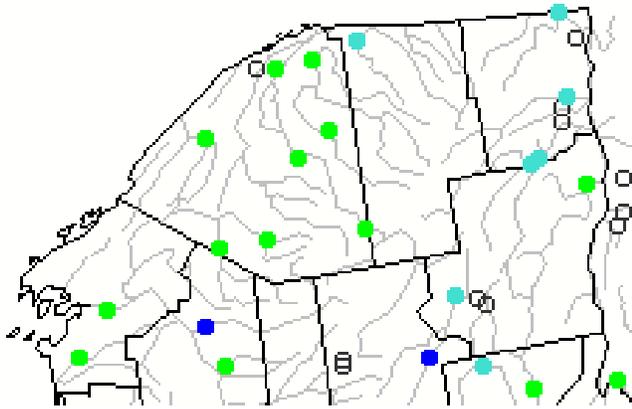
North Country Snowfall Percent of Normal ~ April 2017



April 2017



April 2017



USGS Explanation - Percentile classes							
	●	●	●	●	●	●	○
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Lake Champlain Extremes and 2017 Level

