

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
MONTH YEAR  
January 2015

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  
February 5, 2015

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.

January 2015 was generally characterized by cold and dry weather across the Burlington HSA. No flooding, either from heavier precipitation or ice jams was observed. Mean temperature departures averaged from -2°F to -5°F, with liquid precipitation in general averaging below normal (Figures 1 and 2). Other than brief thawing conditions and light to moderate rainfall during the 4<sup>th</sup> and 5<sup>th</sup>, snow was the dominant precipitation type with numerous systems dropping light to moderate totals. During this thawing episode some modest ice movement was noted, especially at the gages of East Berkshire and Montpelier, VT (Figure 3). Mean river flows for the month were by and large near average (Figure 4). By months end overall snow depth and snow water equivalent values had increased across the entire area. Despite the rather dry weather, cold continental air masses ensured snow-to-liquid ratios were higher than would normally be observed. Thus from a snowfall perspective, monthly totals were much closer to January norms than comparable liquid totals across the HSA.

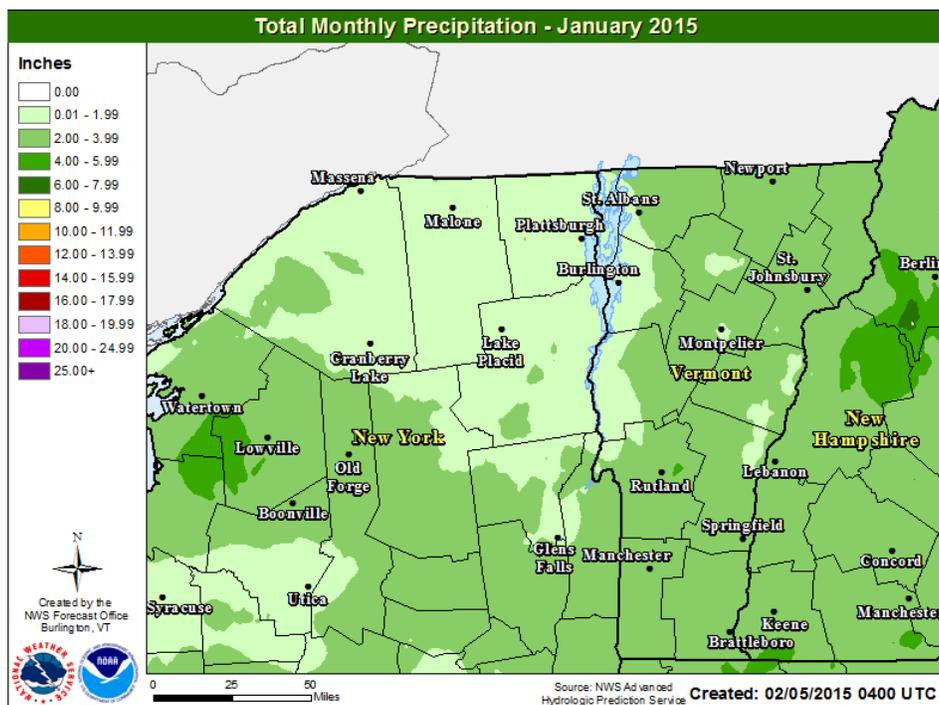


Figure 1. Total precipitation for the month of January 2015.

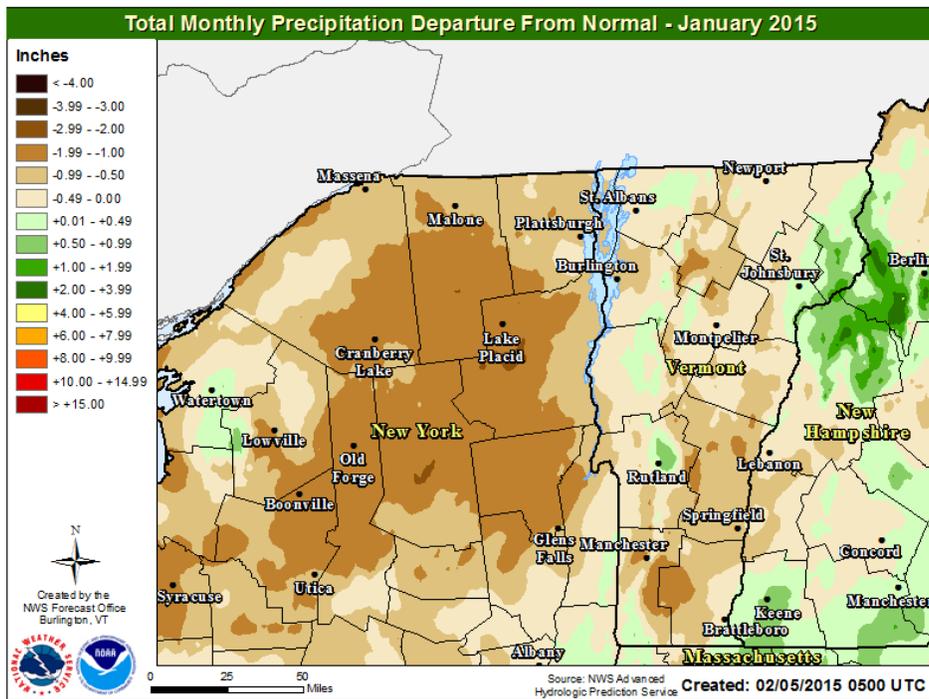


Figure 2. Total precipitation departure from normal for the month of January 2015.

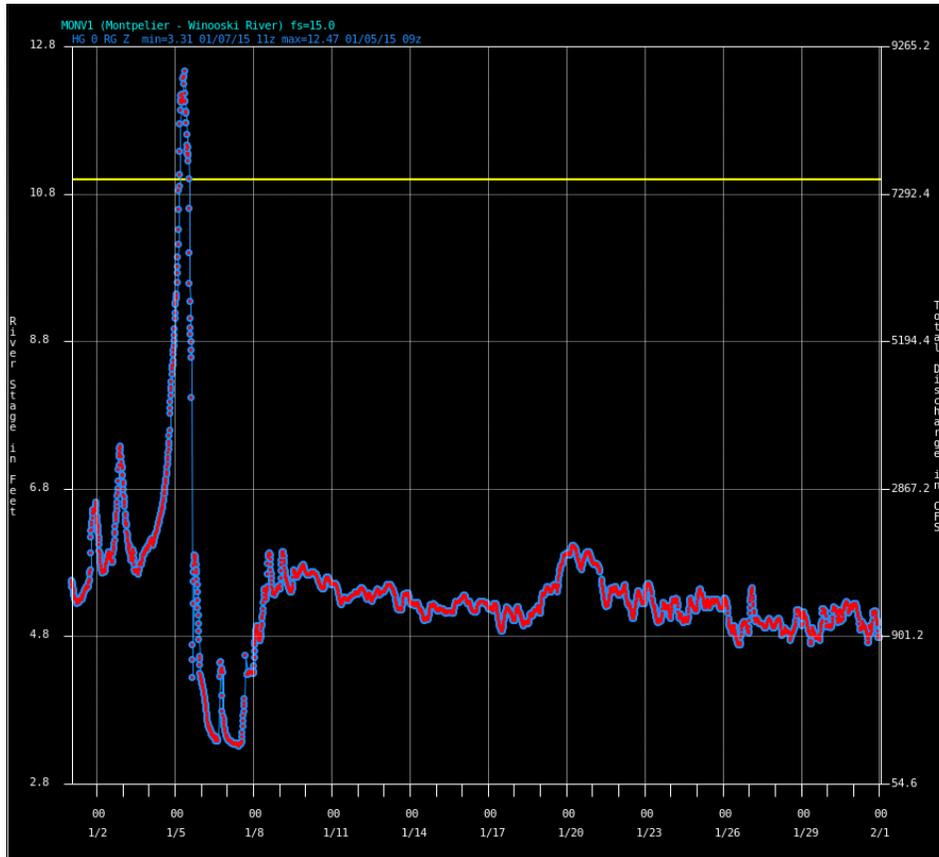


Figure 3. Hydrograph of the Winooski R. at Montpelier, VT showing ice movement during a brief thaw on 3-4 January, 2015.

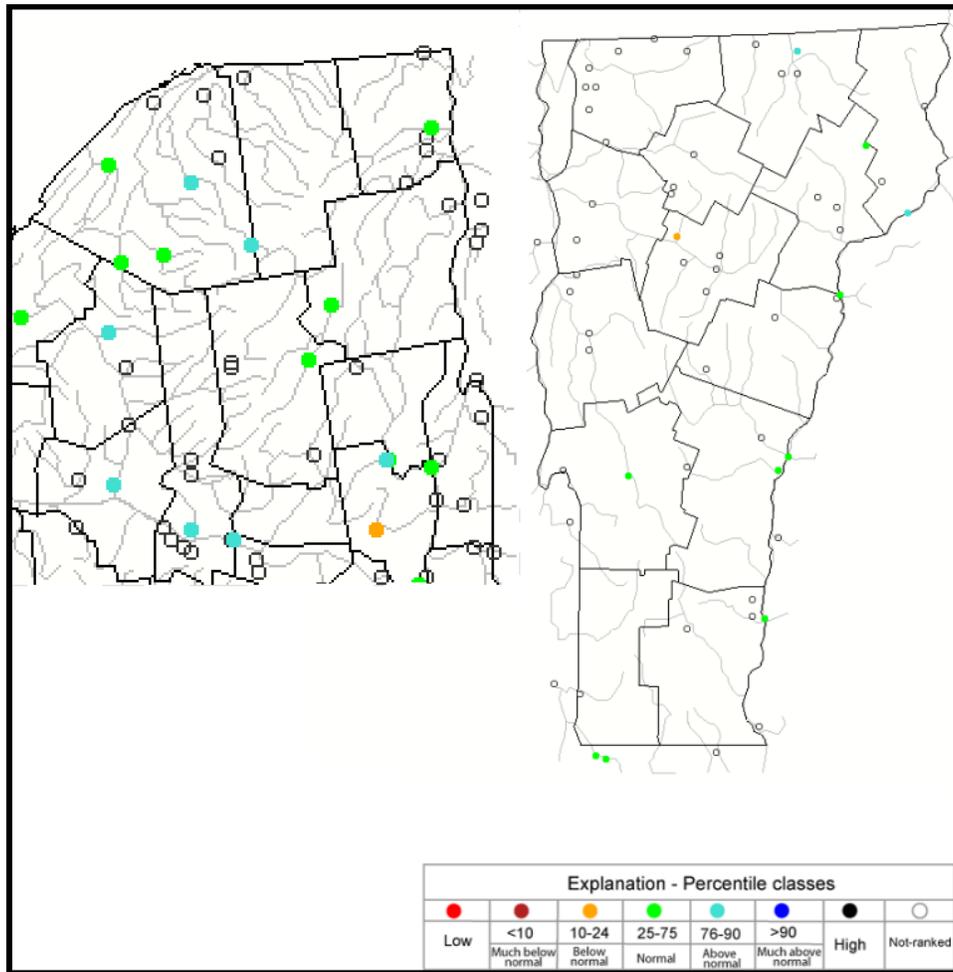


Figure 4. Monthly mean flow for January 2015 (courtesy USGS).