

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
May 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
June 8, 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.

May 2015 was characterized by very warm weather and variable precipitation across the NWS Burlington HSA with no flooding events observed. The overall weather pattern featured persistent high pressure and northwesterly flow with brief interludes of mostly light rainfall as moisture-starved frontal boundaries of Canadian origin dropped through the area. By months end monthly totals ranged from 1 to 5 inches, with the lowest totals observed in the Saint Lawrence Valley of New York and portions of south central Vermont (Figure 1). The month as a whole would have been drier if not for a welcome moderate to heavy rainfall event on the 30 and 31st when 1 to locally 2 inches of precipitation fell across the Adirondack Mountains east into portions of central and northern Vermont (Figure 4). This event brought departures to within 1 inch of normal May values for most locales and is shown clearly in the monthly precipitation departure map shown in Figure 2. As a result of the generally drier than normal pattern for most of the month, area streamflow averages ran below to well below normal for most of the HSA but were above historical extreme values (Figure 3). The drier than normal weather prior to full spring green-up allowed monthly average temperatures to be among the warmest ever observed with Burlington, VT recording their warmest May on record (Figure 5).

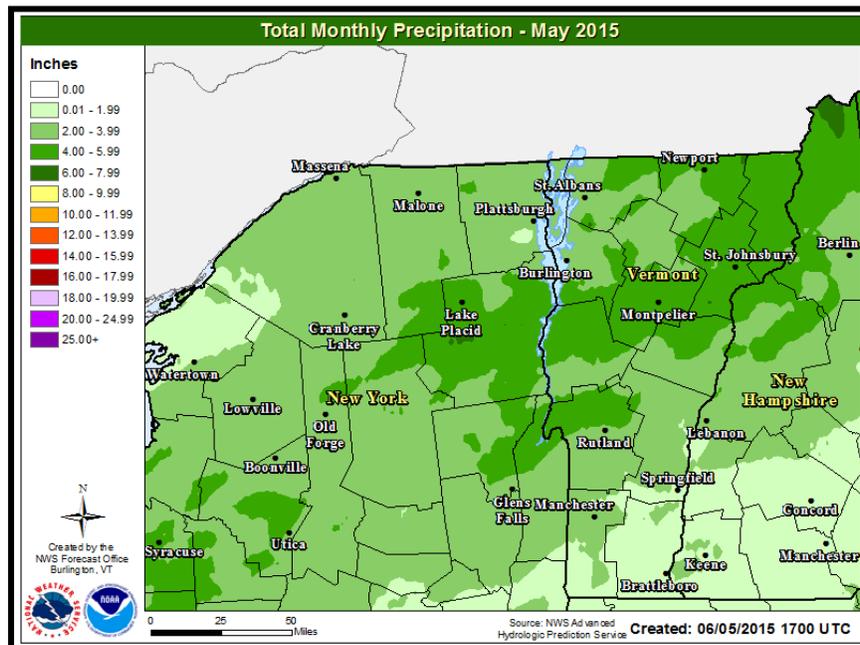


Figure 1. Total precipitation for the month of May 2015, showing values generally ranging from 1 to 3 inches across the NWS Burlington HSA.

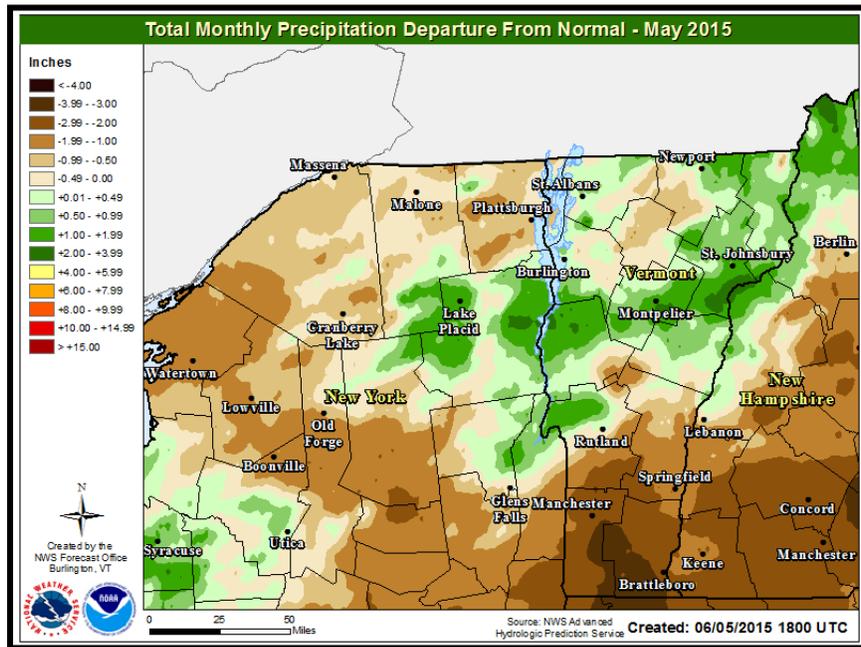


Figure 2. Total precipitation departure from normal for the month of May 2015, showing many areas were at or below normal except a small swath across the Adirondacks into central Vermont.

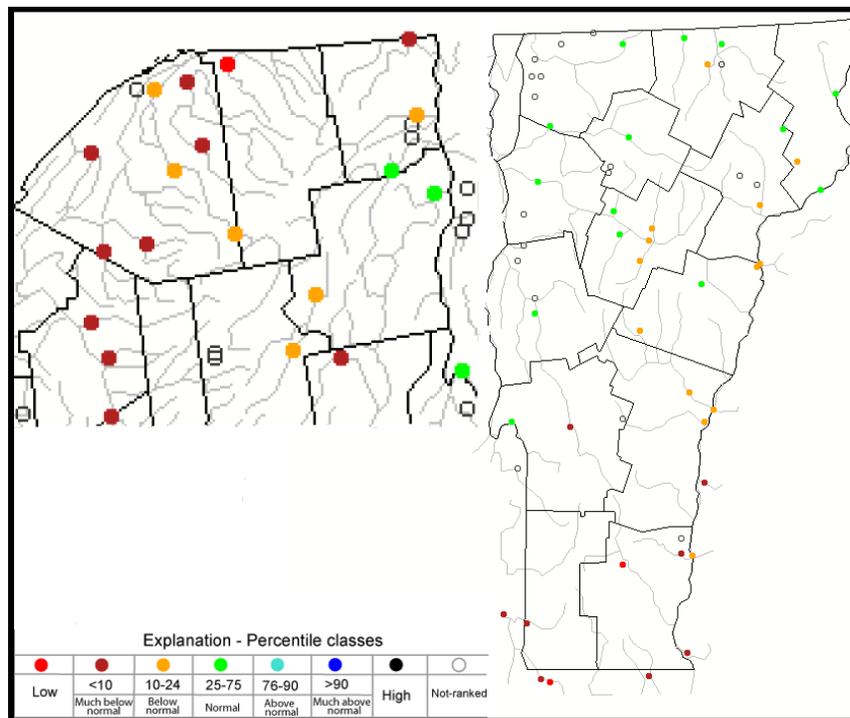


Figure 3. Monthly mean flow for May 2015 (courtesy USGS). Flows were by and large below normal across the NWS Burlington HSA.

