

HYDROLOGIC SERVICE AREA (HSA)
 Burlington VT

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
 MONTH YEAR
 August 2016

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
 September 14, 2016

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.

August 2016 could be characterized as quite variable from a hydrological perspective in the NWS Burlington, VT forecast area. Scattered areas of deeper convection did affect portions of the area, most notably on the 12th and 13th, the 16th and 17th, and the 28th. During these periods short-term rainfall totals exceeded 2 inches, and in some cases 3 inches in small stripes of northern and central Vermont. The most significant event occurred during the late evening of the 16th and into the early morning hours of the 17th when a band of stronger thunderstorms trained across the area. During this time a stripe of moderate to locally heavy rainfall fell from Essex County, NY east into much of central Vermont. The heaviest rainfall occurred in far southern Chittenden County and into Washington County Vermont where isolated totals of 2 to 4 inches were observed. This led to scattered areas of minor flash flooding in the towns of Fayston, Duxbury, and Moretown, VT, where culverts and unpaved roads were washed out.

Despite the scattered areas of heavier convective rainfall, August 2016 as a whole was still considered a drier than normal month by most standards. This continued the larger background theme of long-term dryness across the area with monthly precipitation departure maps showing the majority of the HSA ran rainfall deficits on the order of -0.5 to -3.0 inches. Accordingly, the U.S. Drought Monitor maintained abnormally dry to moderate drought conditions across most of the forecast area by months end. Additionally, the level of Lake Champlain continued to slowly fall, reaching a monthly low of 94.28 feet on the 28th.

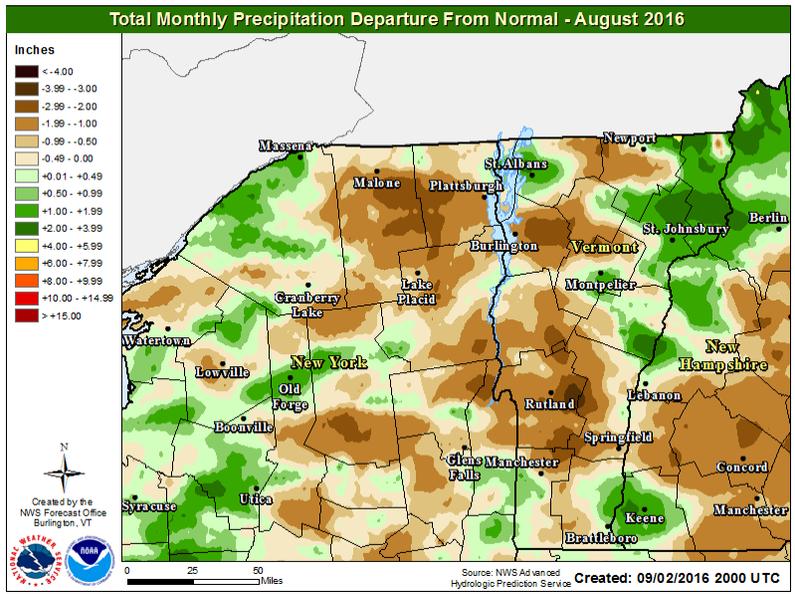


Figure 3. Monthly precipitation departures for August 2016 across the NWS Burlington HSA. Departures were quite variable, mimicking monthly precipitation totals showing most areas remaining on the dry side (-0.5 to -3.0 inches) though with scattered spots (St. Lawrence Valley and northeastern VT) somewhat wet.

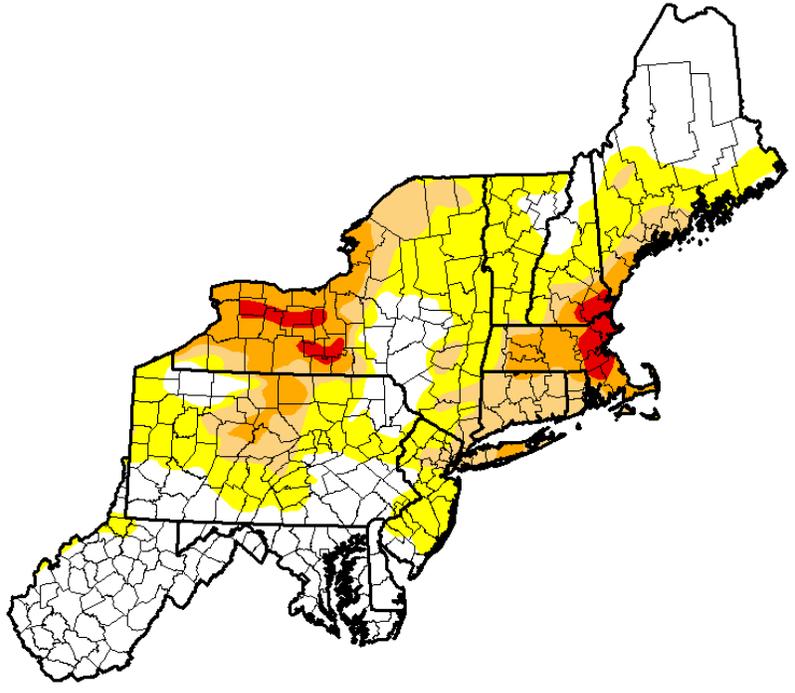


Figure 4. U.S. Drought Monitor plot from 30 August, 2016 showing much of the NWS Burlington HSA remained under abnormally dry to moderate drought conditions (D0 to D1) at months end.

August 2016

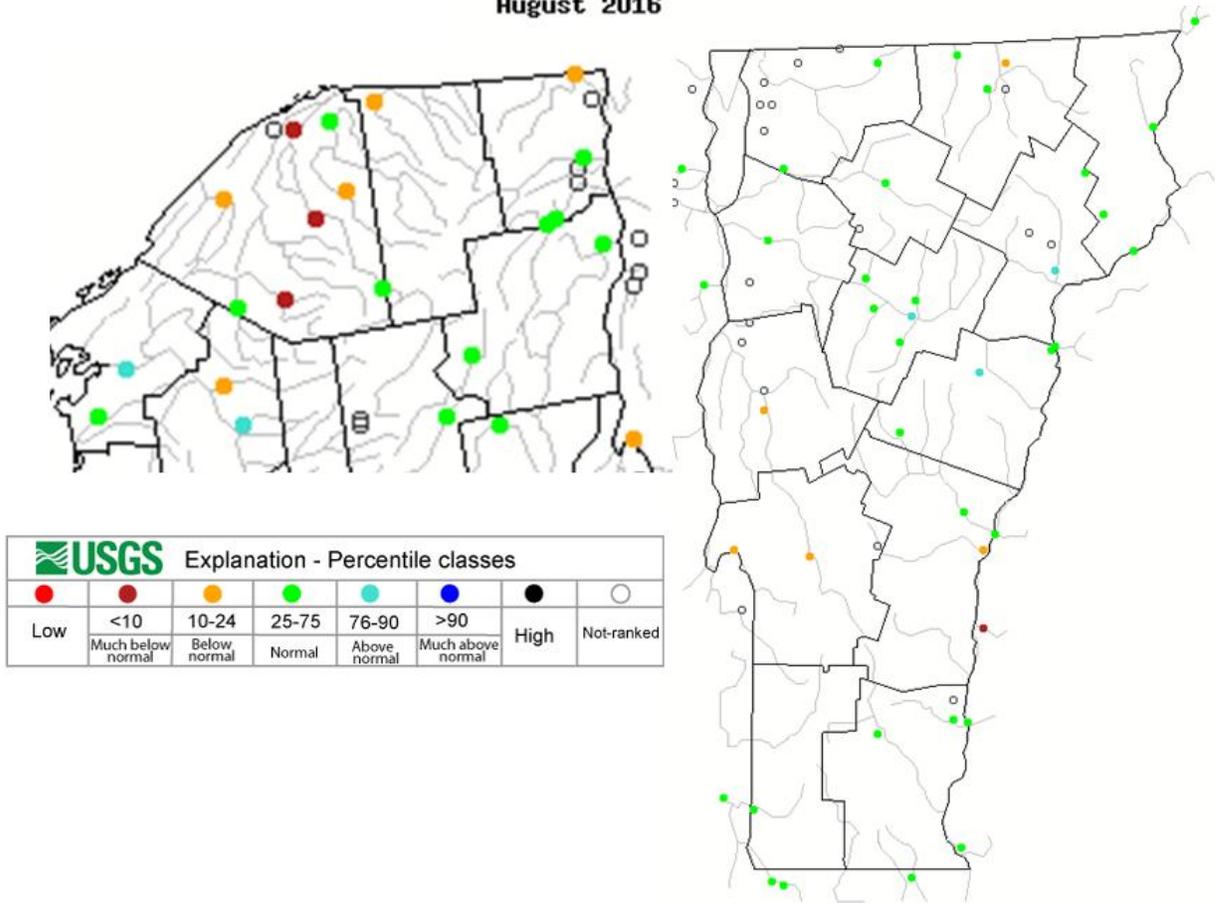


Figure 5. Average streamflow for August 2016. Most rivers were in the normal to below normal categories.