

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).

Overview

Given the extended dryness, D0 (abnormally dry) conditions were introduced by the U.S. Drought Monitor across much of Vermont by month's end (Figure 3).

The most notable hydrological feature during the month was a brief bout of heavier rainfall that affected portions of the region on April 30 and May 1. Many areas received between 0.5 and 1.5 inches of rainfall, with a few areas in the Adirondack Mountains and across portions of southeastern Vermont seeing over two inches (Fig. 4). This prompted an Areal Flood Warning to be issued for portions of Windsor County, VT, and a River Flood Warning for the East Branch of the Ausable River on the morning of the 1st. The Ausable River crested just below moderate flood stage at 8.36 feet. Fortunately, only minor, nuisance flooding was noted (Figure 5).

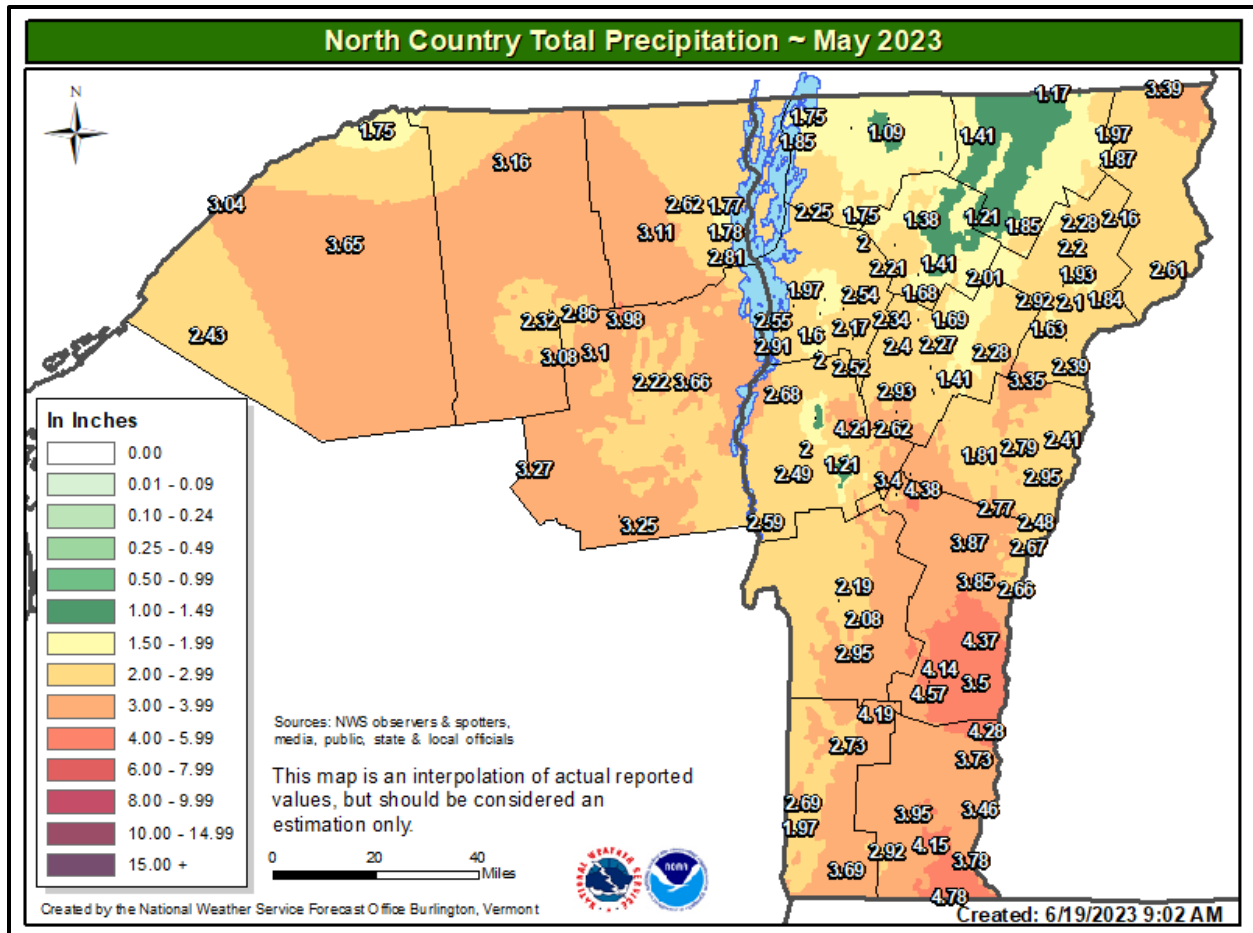


Figure 1: Total precipitation for the month of May 2023 across the NWS Burlington HSA. Totals averaged between 1.5 to 2.5 inches with locally higher totals from 2.5 to 4.5 inches observed in southeastern Vermont.

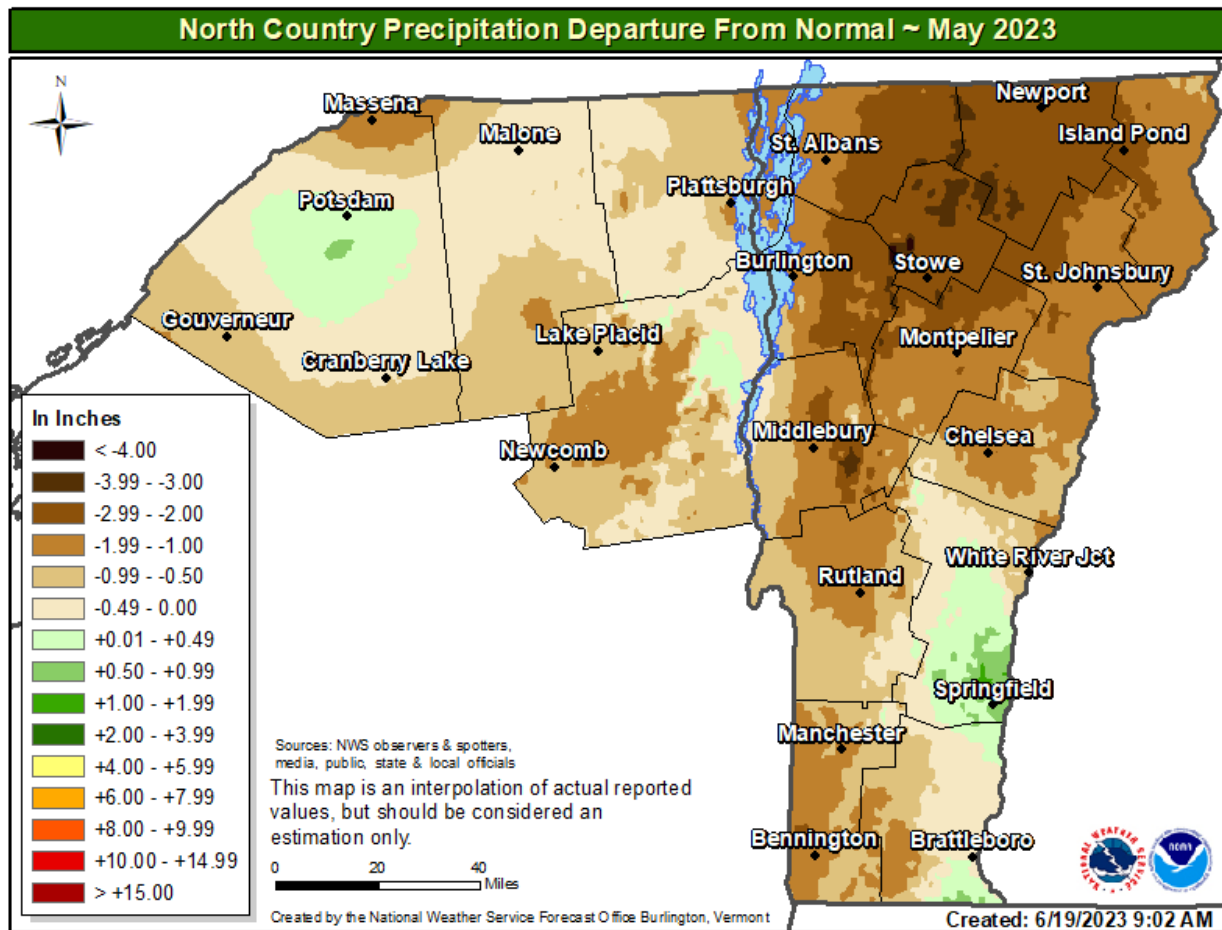


Figure 2: May 2023 precipitation departures from normal for the NWS Burlington, VT HSA. Negative departures averaged from -0.5 to -1.5 inches across the HSA with some local variability.

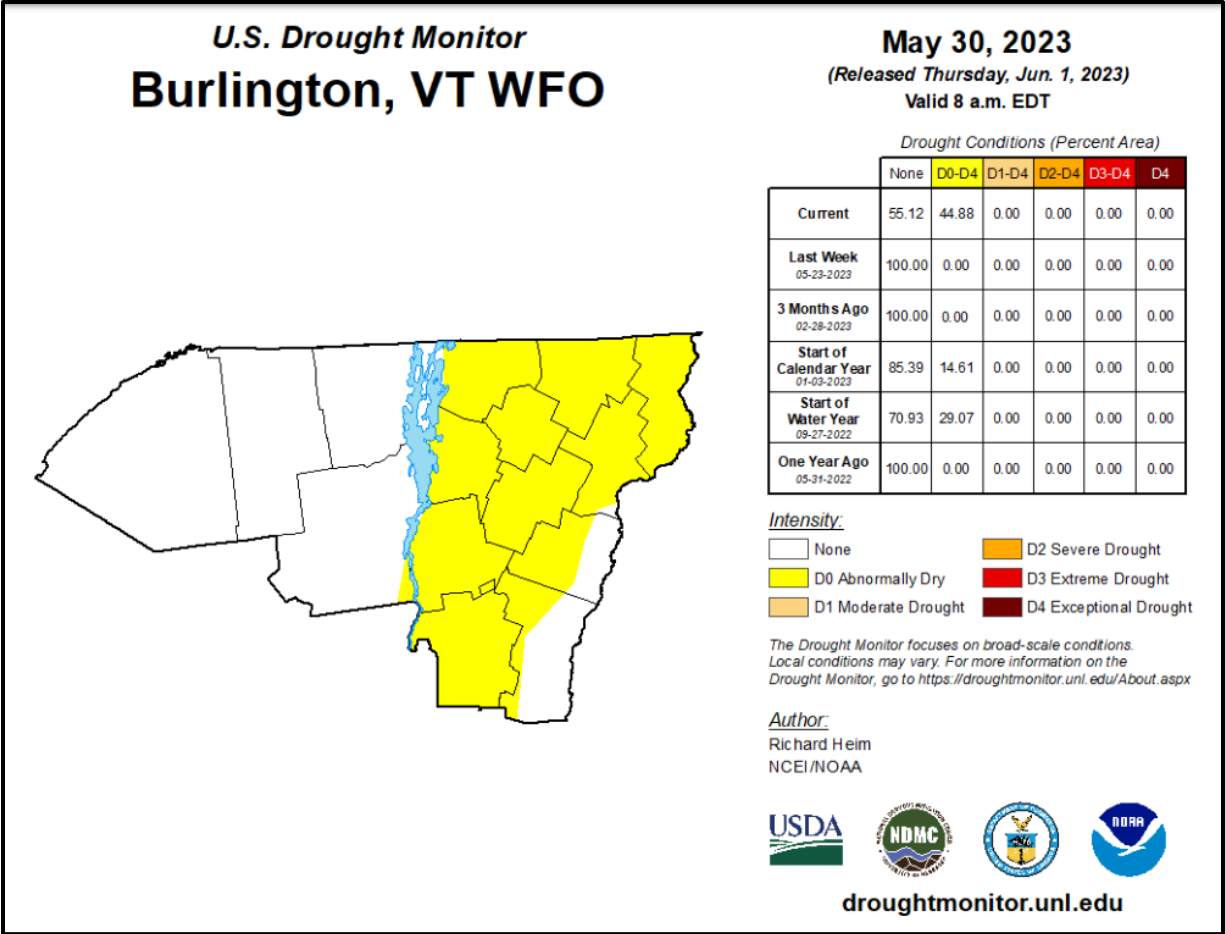


Figure 3: U.S. Drought Monitor map, valid June 1, 2023 showing areas of abnormally dry, or D0 conditions in much of Vermont after an unseasonably dry start to spring.

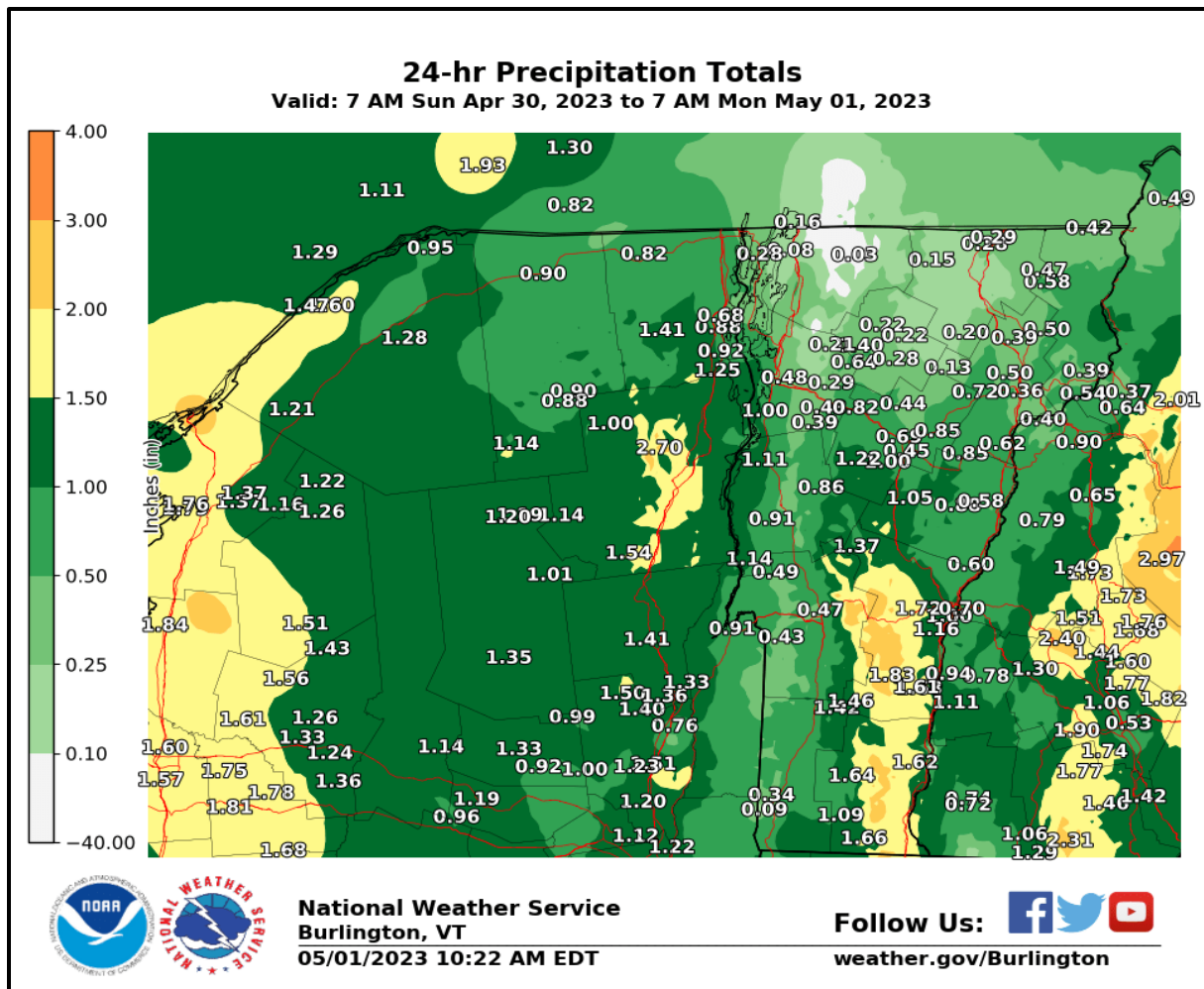


Figure 4: 24-hour total precipitation ending at 700 am local time May 1, 2023. This was the heaviest precipitation event for the month, with a few areas of heavier rainfall noted in the Northern Adirondack region of Essex County, NY and in portions of southeastern Vermont.

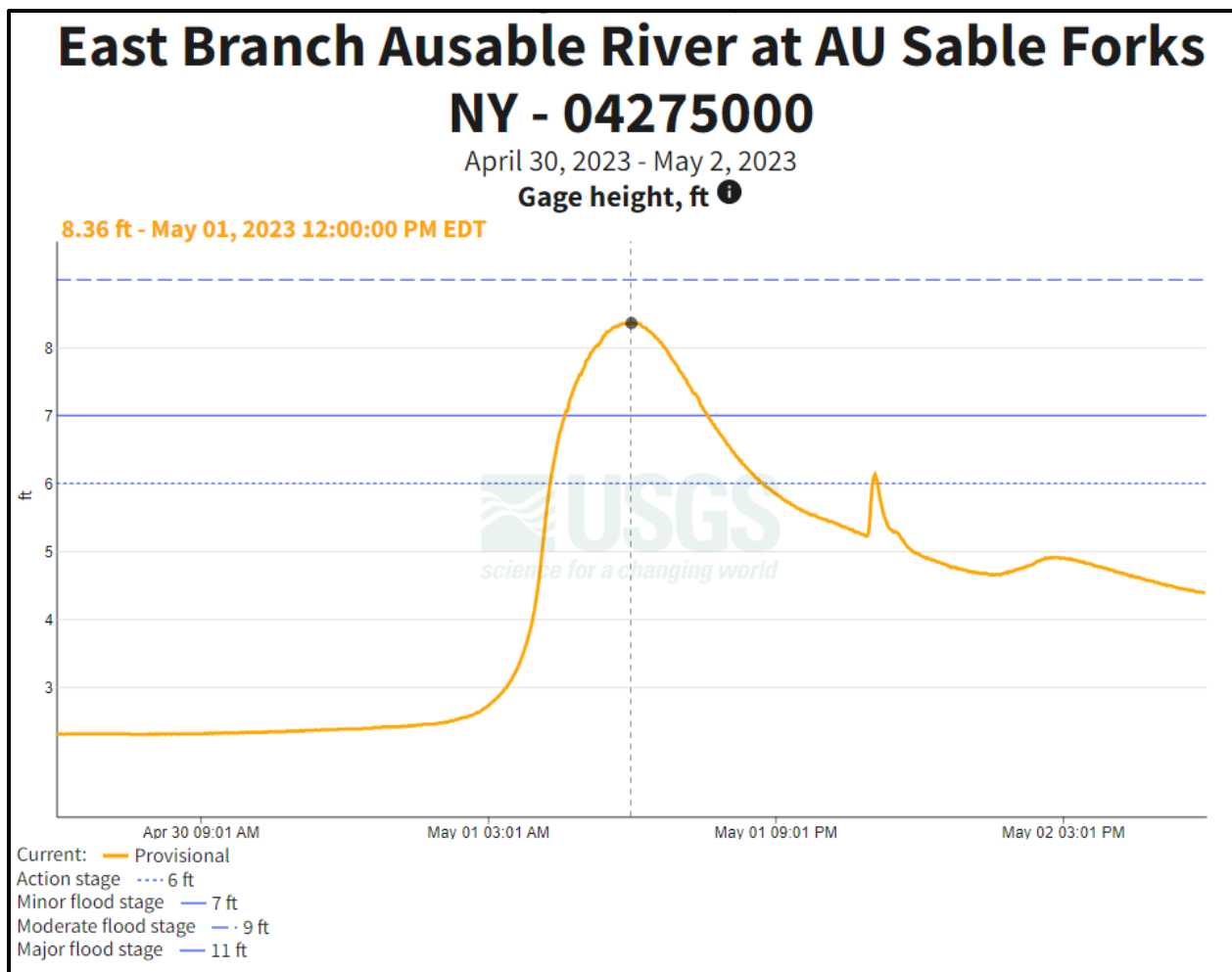


Figure 5: Hydrograph of the East Branch of the Ausable River at Au Sable Forks, NY from April 30 to May 2, 2023. Heavy rainfall during this period allowed the river to crest above minor flood stage on the morning of the 1st.