NWS Form E-5 (04-2006) NATIONAL OCEAN (PRES. BY NWS Instruction 10-924)		U.S. DEPARTMENT OF COMMERCE CEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	RCE HYDROLOGIC S	HYDROLOGIC SERVICE AREA (HSA)	
			VICE	Burlington VT	
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH	YEAR		
			June	2022	
TO:	Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283	SIGNATURE /s/ John Goff	, Senior Service Hydrologist		
		way 910-3283	DATE	July 26, 2022	

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.

June 2022 was a rather uneventful month weatherwise. A general northwesterly upper flow regime remained in place across much of the region during the month, with an overall tendency toward drier conditions overall. Indeed, most areas saw monthly departures average near to below normal, especially across Vermont, where some negative anomalies neared 2 inches. Only portions of the southern St. Lawrence Valley into the Adirondacks saw somewhat above normal rainfall (Table 1). As a result, areas of abnormally dry conditions (United States Drought Monitor level D0) were re-introduced into most of eastern Vermont by month's end (Figure 1). A few minor hydrologic events did occur however, most notably during the early morning hours of June 23. During this period, coastal low pressure retrograded slightly westward toward the New England coast and produced a semi-stationary band of moderate to locally heavy rainfall on the order of 1.5 to 3.0 inches in a narrow swath across the northeastern portions of St. Lawrence County in the vicinity of Potsdam, NY (Figure 2). Flood Warnings were issued by NWS Burlington with a few reports of water flooded roads received in this area. In an isolated, more severe case, water along the St. Regis River rose high enough to force an evacuation from a single family home in the hamlet of Whippleville, NY (Figure 3). Less than a week later, a frontal system produced another swath of heavier rainfall across portions of the northern Adirondack Mountains on the order of 1 to 2 inches in a short period of time. Fortunately, no reports of flooding were received during this event (Figure 4).

Observation site	May precip. total (in.)	May precip. departure (in.)
Burlington, VT (KBTV)	4.15	-0.11
Montpelier, VT (KMPV)	2.61	-1.60
Morrisville, VT (KMVL)	2.23	-1.53
St. Johnsbury, VT (K1V4)	3.52	-0.29
Springfield, VT (KVSF)	2.83	-0.95
Plattsburgh, NY (KPBG)	4.21	+0.14
Saranac Lake, NY (KSLK)	5.53	+1.17
Massena, NY (KMSS)	3.55	-0.16

Table 1: June 2022 precipitation totals and departures (in inches) for selected NWS ASOS platforms in the NWS Burlington HSA. Amounts were generally at or below normal in Vermont, and near to above normal in northern New York.



Figure 1: Comparison of U.S. Drought Monitor maps from June 7, 2022 (left) and June 28, 2022 (right). A return of extended periods of dryness throughout the 30 day period fostered a reintroduction of abnormally dry conditions (USDM category D0) to much of eastern Vermont by months end.



24-hr Precipitation Totals Valid: 7 AM Wed Jun 22, 2022 to 7 AM Thu Jun 23, 2022

Figure 2: 24-hour rainfall ending at 7:00 AM local time on June 23, 2022. Beneficial rains fell across the NWS Burlington HSA during this period. A few spots experienced heavier rainfall, including portions of northeastern St. Lawrence County, NY where reports of flooding were received.



Figure 3: Franklin County, NY Swift Water Rescue volunteers assist an individual from his home in Whippleville, NY after heavy overnight rains flooded his property on the morning of June 23, 2022 (Photo credit Trevor Buchanan/Malone Telegram).



Figure 4: 24-hour rainfall ending 7:00 AM local time on June 27, 2022. Note the moderate to locally heavy swath of precipitation observed in a band across the northern Adirondack Mountains of New York during this period. Fortunately, no flooding was observed with this event.