

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Burlington VT	
		REPORT FOR: MONTH YEAR April 2015	
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE /s/ Gregory A. Hanson, SH WFO BTW	
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE 05/07/2015	

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.

The persistent cold winter that lasted through March finally eased its grip on the North Country during April. Precipitation was below normal for the month (Figs 1 & 2), although snowfall was near normal (Figs 3 & 4). Fortunately the heavier rain episodes did not coincide with the peak of the snowmelt, and there was only isolated minor flooding. Rivers reached action stage around mid-month, and then generally receded toward the end of April. Average flows for April were mainly in the normal percentile (Fig 5).

April began with a warming trend into the 60s on the 3rd, which was the initial start to the 2015 snowmelt season. Rivers saw small to moderate rises from snowmelt in the lower elevations but remained well below flood stage. Snow at middle and higher elevations remained deep and unripe.

Through the middle of April temperatures moderated with periodic frontal systems dropping mostly liquid precipitation. However with the snow still in the process of ripening little runoff was seen.

Around April 12 a warm front moved through Vermont and northern New York, warming temperatures into the 60s and 70s for the next few days with overnight lows above freezing. A cold front on the 14th brought showers and cooler temperatures, however precipitation was light. In general rivers saw their biggest rises of the month due mainly to snowmelt, with many reaching action stage on the 14th and 15th. The Barton River at Coventry rose to flood stage prompting a flood warning, cresting on April 15 with only minor flooding of local roads.

In the last half of the month snow had dwindled in northern New York and Vermont, however the Northeast Kingdom of Vermont kept an appreciable snow cover into the last week of April. A complex frontal system and slow moving upper trough moved through beginning April 20. A half to once inch of rain fell area-wide. Flood warnings were issued for the Barton River at Coventry once again, and the combination of rainfall and ongoing snowmelt caused minor flooding with a crest on April 23.

A cold front moved through on April 22, cooling temperatures and slowing the remaining snowmelt. Overnight lows fell below freezing, with some new snowfall in the higher terrain. Rivers began to recede with the loss of snowmelt runoff through the end of the month.

Lake Champlain at Rouses Point and the Raquette River in New York, both very slow to respond to runoff, crested later in the month. Lake Champlain crested at 97.83 feet at Rouses Point, near its climatological normal time but about a foot below its normal crest.

**Significant River Crests
July 2011
WFO Burlington VT**

Gage	NWSLI	Crest (ft)	Date	Time (UTC)	Flood Stage (ft)
Missisquoi at Swanton VT	SWAV1	5.02	4/14	1830	8.0
Missisquoi at East Berkshire VT	EBKV1	10.86i 10.58	4/4 4/15	2100 0400- 0445	13.0
Missisquoi at North Troy VT	NTYV1	8.19	4/14	2200- 2230	9.0
Barton River near Coventry VT	COVV1	8.85 8.73	4/15 4/23	0745 1730, 1845	8.0
Lamoille River at Johnson VT	JONV1	10.36	4/15	0445, 0515	13.0
Lamoille River at Jeffersonville VT	JVLV1	448.43	4/15	0930	450.0
Lamoille River at East Georgia VT	GEOV1	11.87 8.30	4/4 4/15	1530- 1545i 0945- 1415	NA
Passumpsic River at Passumpsic VT	PASV1	10.11 10.13	4/15 4/23	0530- 0600 1500- 1545	14.0
East Branch Passumpsic at East Haven VT	EHVV1	5.74	4/23	0830	6.5
Winooski River at Montpelier VT	MONV1	8.25	4/15	0030	15.0
Winooski River at Waterbury VT	WATV1	416.32	4/14	1315	419.0
Winooski River at Essex Junction VT	ESSV1	9.69	4/14	1945- 2115	12.0
Mad River near Moretown VT	MOOV1	7.57	4/14	1215	9.0
Otter Creek at Center Rutland VT	CENV1	7.36	4/15	1045	8.0
Otter Creek at Middlebury VT	MDBV1	5.09	4/23	1000- 1530	NA
White River at East Hartford VT	WEHV1	10.74	4/15	0230- 345	18.0
Lake Champlain at Rouses Point NY	ROUN6	97.83	4/28	2215	100.0
Great Chazy at Perry Mills NY	CZRN6	6.02	4/11	1500- 1730	9.0
Saranac River at Plattsburgh NY	PBGN6	6.76	4/14	1415	9.0
East Branch Ausable at Ausable Forks NY	ASFN6	5.45	4/21	1800	7.0
Raquette River at Piercefield NY	PIEN6	9.05	4/26	1200	12.5
Oswegatchie River near Heuvelton NY	HEUN6	5.45	4/5- 4/6	2245- 0200	7.5

"i" denotes ice affected crest

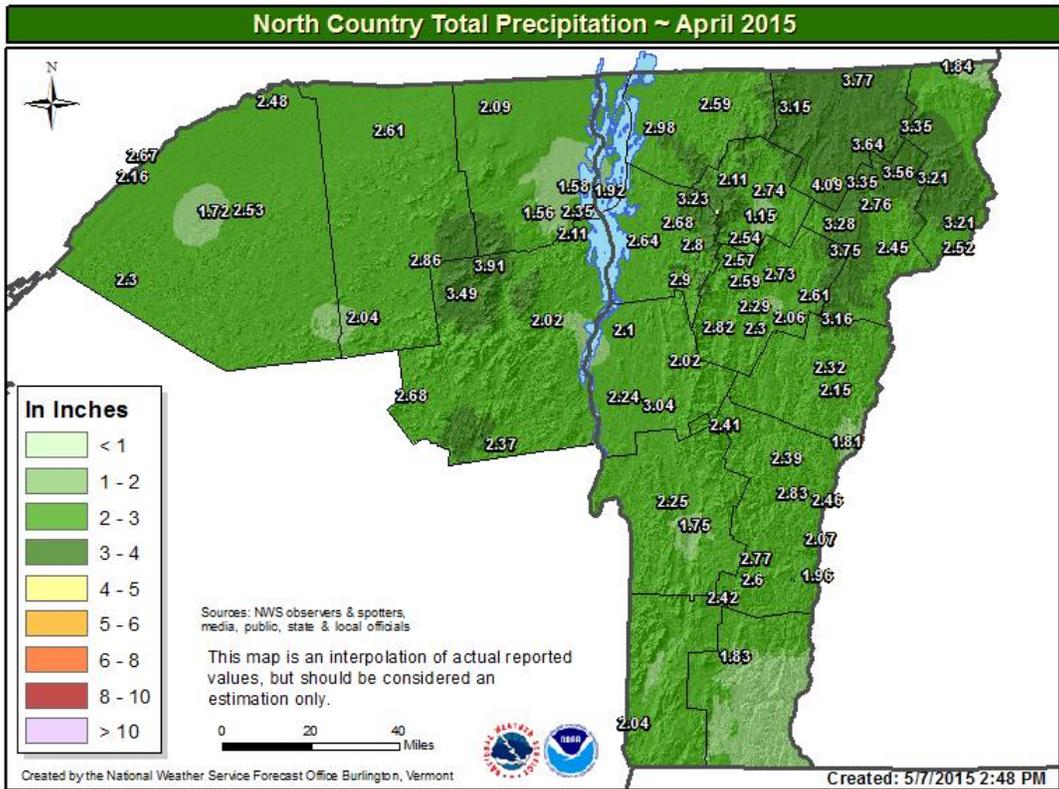


Figure 1

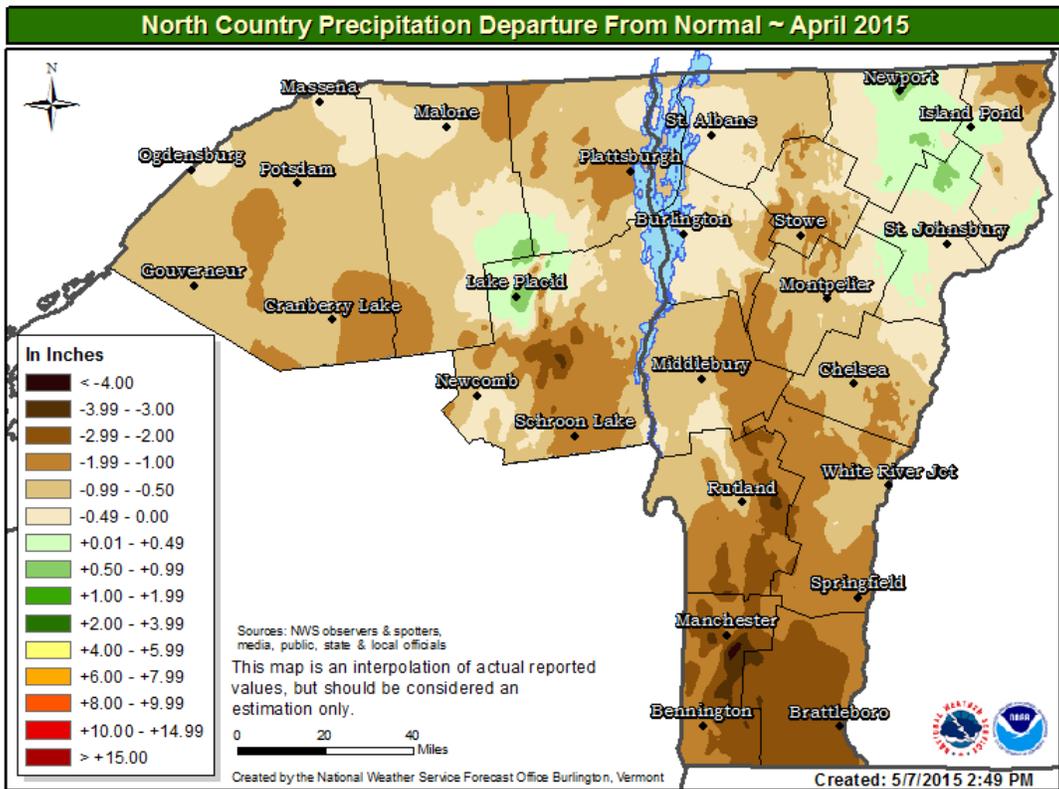


Figure 2

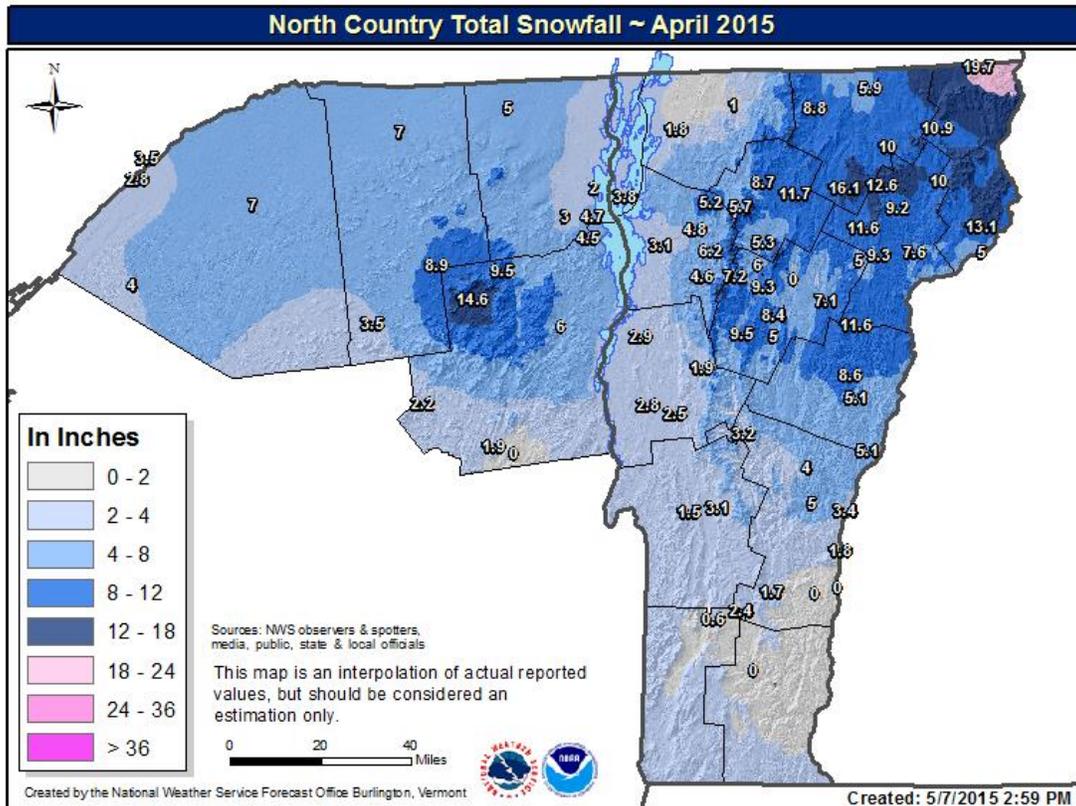


Figure 3

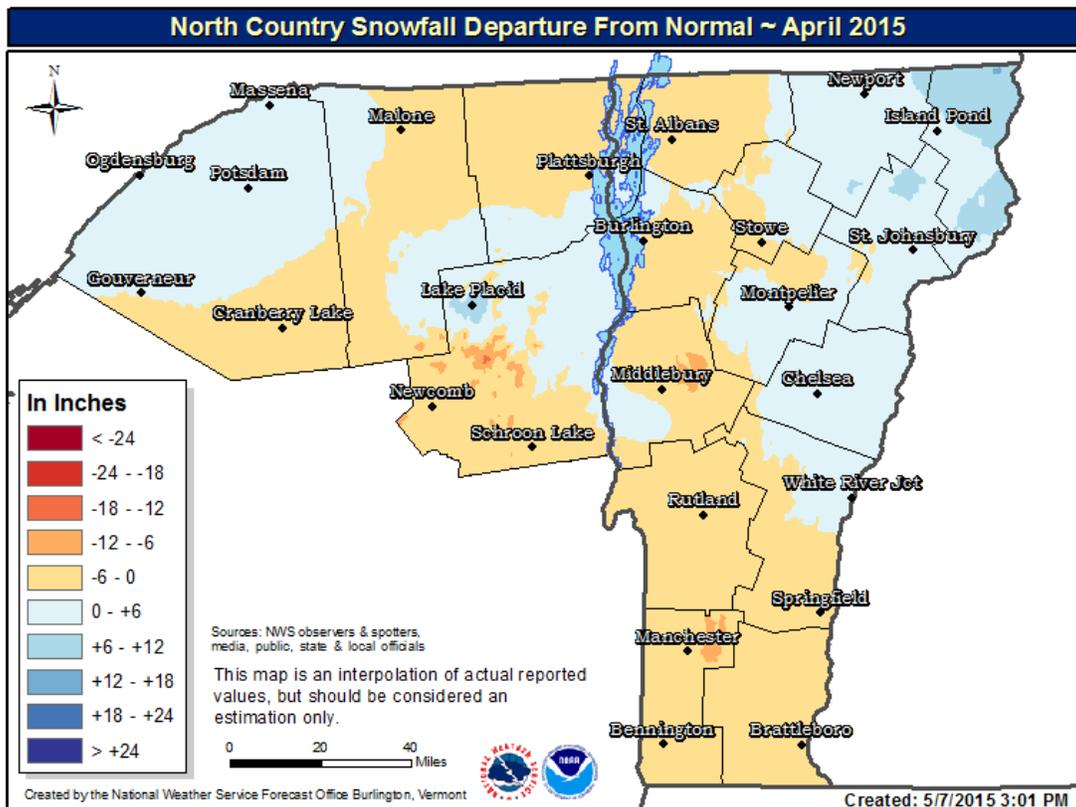


Figure 4

April 2015

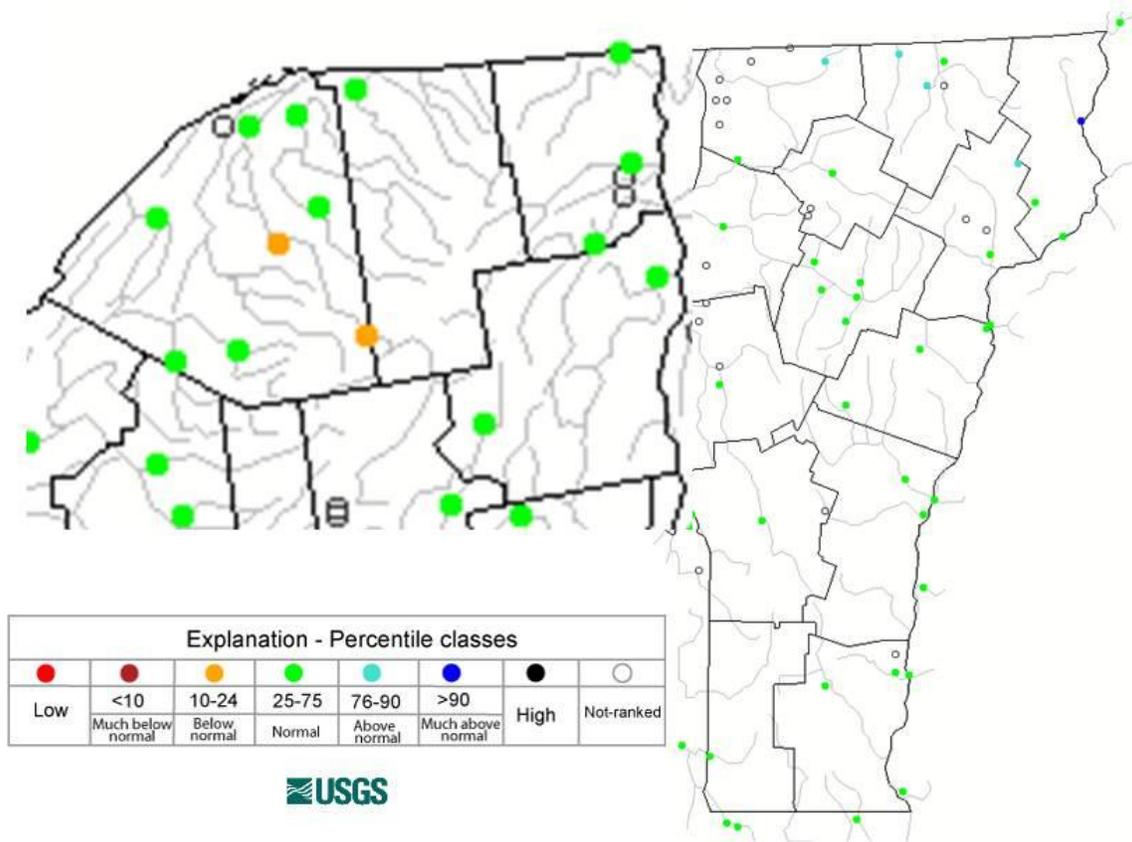


Figure 5, Average monthly streamflows April 2015