



Water-Data Report 2011

04292810 JEWETT BROOK AT VT 38, NEAR ST. ALBANS, VT

Richelieu Basin
Lamoille Subbasin

LOCATION.--Lat 44°51'22", long 73°09'03" referenced to North American Datum of 1983, Franklin County, Hydrologic Unit 02010005, on right bank of culvert at the intersection of Lower Newton Rd. (Rt. 38) and Lord Rd. and near the Town of St. Albans, Vt.

DRAINAGE AREA.--3.74 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge records: October 1, 2008 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 120 ft above National Geodetic Vertical Datum of 1929, from topographic map.

COOPERATION.--Station operated in cooperation with the Lake Champlain Basin Program

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 416 ft³/s, Apr. 28, gage height, 6.74 ft; minimum daily discharge, e0.01 ft³/s, July 25, Aug 4-8, 13, 14, 19, and 20.

[e, estimated]

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	78	10	24	e17	e0.31	e1.7	8.7	9.7	7.0	1.2	e0.03	2.4
2	46	5.6	72	e60	e0.28	e1.7	11	8.2	5.5	0.98	e0.02	1.2
3	11	3.5	16	22	e0.26	e1.5	9.8	30	4.7	0.75	e0.02	0.73
4	4.5	3.3	8.2	8.5	e0.26	e1.6	13	157	3.6	0.72	e0.01	e0.63
5	3.1	26	5.1	5.7	e0.26	e3.2	40	52	3.2	0.60	e0.01	e12
6	3.2	19	3.2	4.1	e0.28	e25	23	29	3.0	0.98	e0.01	47
7	17	8.1	2.3	3.1	e0.31	e14	10	14	2.5	2.2	e0.01	27
8	12	16	2.0	2.5	0.31	e13	8.1	9.8	2.1	0.80	e0.01	18
9	10	56	1.9	2.0	0.29	e13	7.1	7.5	2.0	e0.32	e0.06	10
10	5.4	15	1.7	1.7	0.29	e13	6.6	5.9	1.6	e0.26	e0.17	6.4
11	3.3	7.8	1.6	1.5	0.30	25	69	5.0	1.4	e0.19	e0.06	4.2
12	2.2	5.2	2.1	1.3	0.33	43	20	4.2	1.7	e0.26	e0.03	2.6
13	1.7	3.7	69	1.1	0.32	50	17	3.7	1.9	e0.26	e0.01	1.7
14	2.1	2.9	22	0.89	0.35	52	22	4.2	1.5	e0.23	e0.01	2.6
15	68	2.7	9.6	0.88	0.36	47	9.7	29	1.3	e0.18	e0.06	5.0
16	152	4.5	6.1	0.88	0.39	43	7.0	70	1.0	e0.14	e0.17	8.0
17	31	5.5	4.2	0.63	0.45	79	12	40	0.86	e0.12	e0.06	5.2
18	13	4.9	3.4	0.59	e0.90	e110	9.3	14	9.0	e0.10	e0.03	3.2
19	7.7	2.3	3.1	0.73	e4.0	e70	6.5	11	4.5	e0.09	e0.01	2.2
20	5.8	1.9	2.8	0.69	e8.0	26	34	17	2.4	e0.07	e0.01	2.7
21	7.7	1.6	2.6	0.72	e7.0	19	16	37	1.8	e0.06	e0.07	3.4
22	11	1.7	2.6	0.64	e5.4	31	8.2	11	1.4	e0.05	e0.04	2.9
23	5.5	7.0	2.4	e0.45	e4.2	17	6.8	7.5	1.6	e0.03	e0.02	5.5
24	3.4	8.1	2.5	0.29	e3.3	10	6.2	6.3	1.4	e0.02	e0.02	7.4
25	4.1	2.6	2.1	0.30	e2.5	7.4	4.6	4.9	1.3	e0.01	e0.03	6.9
26	6.2	2.4	2.0	0.41	e1.9	6.0	32	52	6.3	e0.05	e0.04	4.5
27	21	2.3	2.0	0.46	e1.7	4.2	155	191	2.9	e0.08	e0.10	3.1
28	12	1.7	e1.8	0.46	e1.6	3.2	174	156	1.8	e0.06	e4.8	2.3
29	6.3	1.6	e1.6	0.48	---	3.0	32	32	1.4	e0.05	30	5.1
30	5.1	2.0	e1.7	e0.41	---	4.9	14	16	1.3	e0.06	11	38
31	23	---	2.3	e0.36	---	7.2	---	9.3	---	e0.06	4.9	---
Total	582.3	234.9	283.9	140.77	45.85	745.6	792.6	1,044.2	81.96	10.98	51.82	241.86
Mean	18.8	7.83	9.16	4.54	1.64	24.1	26.4	33.7	2.73	0.35	1.67	8.06
Max	152	56	72	60	8.0	110	174	191	9.0	2.2	30	47
Min	1.7	1.6	1.6	0.29	0.26	1.5	4.6	3.7	0.86	0.01	0.01	0.63
Cfsm	5.02	2.09	2.45	1.21	0.44	6.43	7.06	9.01	0.73	0.09	0.45	2.16
In.	5.79	2.34	2.82	1.40	0.46	7.42	7.88	10.39	0.82	0.11	0.52	2.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.23	5.33	7.41	4.87	2.28	14.5	15.0	13.0	1.51	0.66	1.71	2.80
Max	18.8	7.83	9.16	8.99	3.30	24.1	26.4	33.7	2.73	1.53	3.27	8.06
(WY)	(2011)	(2011)	(2011)	(2010)	(2009)	(2011)	(2011)	(2011)	(2011)	(2009)	(2010)	(2011)
Min	1.31	2.13	6.04	1.07	1.64	7.58	8.71	1.42	0.45	0.11	0.20	0.14
(WY)	(2010)	(2009)	(2009)	(2009)	(2011)	(2009)	(2009)	(2010)	(2009)	(2010)	(2009)	(2009)

04292810 JEWETT BROOK AT VT 38, NEAR ST. ALBANS, VT—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2009 - 2011	
Annual total	2,292.20	4,256.74		
Annual mean	6.28	11.7	6.39	
Highest annual mean			11.7	2011
Lowest annual mean			3.04	2009
Highest daily mean	152	Oct 16	191	May 27
Lowest daily mean	e 0.01	Sep 2 ^a	e 0.01	Jul 25 ^b
Annual seven-day minimum	0.01	Sep 1	0.01	Aug 2
Maximum peak flow			416	Apr 28
Maximum peak stage			6.74	Apr 28
Instantaneous low flow				0.01
Annual runoff (cfsm)	1.68	3.12	1.71	
Annual runoff (inches)	22.80	42.34	23.21	
10 percent exceeds	13	30	14	
50 percent exceeds	1.7	3.2	1.6	
90 percent exceeds	0.05	0.09	0.05	

^e Estimated^a Also Sep 3-7, 2010^b Also Aug 4-8, 13, 14, 19, and 20^c Part or all of many days in Oct 2008, Jun, Aug, and Sep 2009, Sep 2010, and Jul and Aug 2011.