Water-Data Report 2011

04296280 BARTON RIVER NEAR COVENTRY, VT

St. Francois Basin
St. Francois Subbasin

LOCATION.--Lat 44°52′17″, long 72°12′02″ referenced to North American Datum of 1983, Orleans County, Hydrologic Unit 01110000, on right bank at the Coventry Station access to the South Bay Wildlife Management Area, 10 ft downstream of Coventry Station Road crossing, 0.26 mi east of Coventry Station Road and Maxwell Road intersection in Coventry, and 3 mi east of Coventry.

DRAINAGE AREA.--155 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2009 to current year.

GAGE.--Water-stage recorder and index-velocity gage. Elevation of gage is 679.69 ft above North Atlantic Vertical Datum of 1988.

COOPERATION.--Vermont Department of Environmental Conservation

REMARKS.--Records fair except those for estimated discharges and those for September 1-30, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,070 ft^3/s, Apr. 27, gage height, 4.37 ft; minimum discharge, 48 ft^3/s, Aug. 14.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04296280, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04296280.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	46	54
2	---	---	---	---	---	---	---	---	---	---	44	53
3	---	---	---	---	---	---	---	---	---	---	335	51
4	---	---	---	---	---	---	---	---	---	---	1,950	51
5	---	---	---	---	---	---	---	---	---	---	1,540	45
6	---	---	---	---	---	---	---	---	---	---	859	42
7	---	---	---	---	---	---	---	---	---	---	450	40
8	---	---	---	---	---	---	---	---	---	---	328	46
9	---	---	---	---	---	---	---	---	---	---	308	56
10	---	---	---	---	---	---	---	---	---	---	294	55
11	---	---	---	---	---	---	---	---	---	---	241	50
12	---	---	---	---	---	---	---	---	---	---	198	42
13	---	---	---	---	---	---	---	---	---	---	168	44
14	---	---	---	---	---	---	---	---	---	---	147	49
15	---	---	---	---	---	---	---	---	---	---	124	45
16	---	---	---	---	---	---	---	---	---	65	110	42
17	---	---	---	---	---	---	---	---	---	79	106	91
18	---	---	---	---	---	---	---	---	---	72	96	77
19	---	---	---	---	---	---	---	---	---	70	91	57
20	---	---	---	---	---	---	---	---	---	75	92	50
21	---	---	---	---	---	---	---	---	---	74	80	42
22	---	---	---	---	---	---	---	---	---	105	82	40
23	---	---	---	---	---	---	---	---	---	114	96	40
24	---	---	---	---	---	---	---	---	---	85	86	45
25	---	---	---	---	---	---	---	---	---	81	79	51
26	---	---	---	---	---	---	---	---	---	76	75	45
27	---	---	---	---	---	---	---	---	---	65	72	41
28	---	---	---	---	---	---	---	---	---	57	65	67
29	---	---	---	---	---	---	---	---	---	57	63	92
30	---	---	---	---	---	---	---	---	---	54	60	89
31	---	---	---	---	---	---	---	---	---	49	57	---
Total	---	---	---	---	---	---	---	---	---	---	8,342	1,592
Mean	---	---	---	---	---	---	---	---	---	---	269	53.1
Max	---	---	---	---	---	---	---	---	---	---	1,950	92
Min	---	---	---	---	---	---	---	---	---	---	44	40
Cfsm	---	---	---	---	---	---	---	---	---	---	1.74	0.34
In.	---	---	---	---	---	---	---	---	---	---	2.00	0.38

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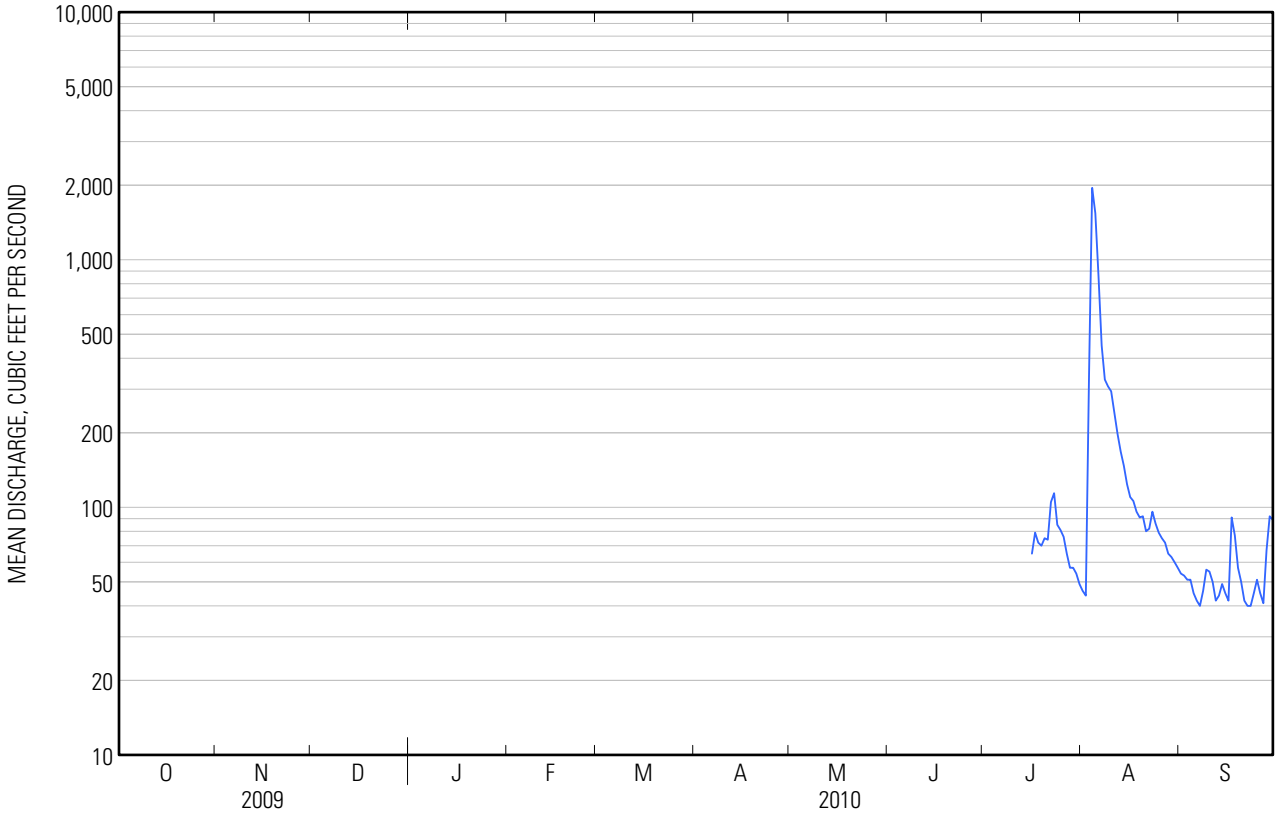

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,270	364	319	e209	e100	e132	209	1,180	858	152	e72	548
2	2,620	306	981	e479	e101	e131	214	996	722	142	e65	439
3	1,280	273	905	e467	e99	e126	275	895	573	133	e69	361
4	797	271	545	e347	e99	e124	294	1,050	500	147	63	323
5	530	597	e395	e276	e100	e128	655	1,270	432	139	57	345
6	438	821	e306	e226	e105	e288	884	1,160	383	129	54	756
7	410	498	e250	e201	e110	e622	764	929	341	157	52	682
8	431	431	e238	e180	e109	e430	732	730	304	132	66	585
9	610	712	e227	e167	e111	e423	779	611	281	123	58	470
10	425	605	e208	e157	e113	e371	993	559	277	110	64	381
11	340	422	e201	e148	e110	e337	2,710	526	248	102	85	299
12	290	355	e220	e141	e114	e511	3,870	480	262	108	64	256
13	258	320	e903	e140	e112	e602	2,730	426	303	115	54	226
14	231	292	e866	e143	e114	e432	2,130	381	321	103	50	251
15	534	270	e559	e132	e118	e334	1,630	710	260	93	53	301
16	1,240	253	e454	e128	e123	e296	1,340	1,570	221	87	241	480
17	1,170	305	e353	e119	e127	e294	1,250	1,570	196	83	255	311
18	757	445	e285	e112	e147	e711	1,450	1,170	271	80	126	232
19	522	345	e261	e115	e230	1,440	1,280	904	273	77	92	193
20	410	289	e241	e123	e246	1,270	1,270	719	192	70	78	176
21	366	258	e229	e123	e211	998	1,620	974	164	68	75	178
22	385	231	e223	e117	e175	747	1,340	1,050	145	88	115	158
23	329	273	e212	e113	e156	573	1,150	764	142	79	89	145
24	280	337	e211	e109	e143	471	1,130	616	199	76	70	271
25	268	252	e190	e106	e138	397	1,190	516	238	66	62	322
26	272	230	e177	e106	e134	297	1,350	463	410	66	99	206
27	309	239	e164	e108	e134	259	4,540	1,030	336	e85	81	161
28	366	215	e161	e112	e132	226	2,530	1,930	214	e86	495	137
29	296	205	e162	e113	---	199	2,070	1,370	176	e72	3,830	136
30	269	200	e164	e109	---	182	1,420	1,270	157	e76	1,590	930
31	371	---	e165	e105	---	186	---	1,170	---	e82	1,010	---
Total	19,074	10,614	10,775	5,231	3,711	13,537	43,799	28,989	9,399	3,126	9,234	10,259
Mean	615	354	348	169	133	437	1,460	935	313	101	298	342
Max	2,620	821	981	479	246	1,440	4,540	1,930	858	157	3,830	930
Min	231	200	161	105	99	124	209	381	142	66	50	136
Cfsm	3.97	2.28	2.24	1.09	0.86	2.82	9.42	6.03	2.02	0.65	1.92	2.21
In.	4.58	2.55	2.59	1.26	0.89	3.25	10.51	6.96	2.26	0.75	2.22	2.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	615	354	348	169	133	437	1,460	935	313	101	283	198
Max	615	354	348	169	133	437	1,460	935	313	101	298	342
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	615	354	348	169	133	437	1,460	935	313	101	269	53.1
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2010)	(2010)

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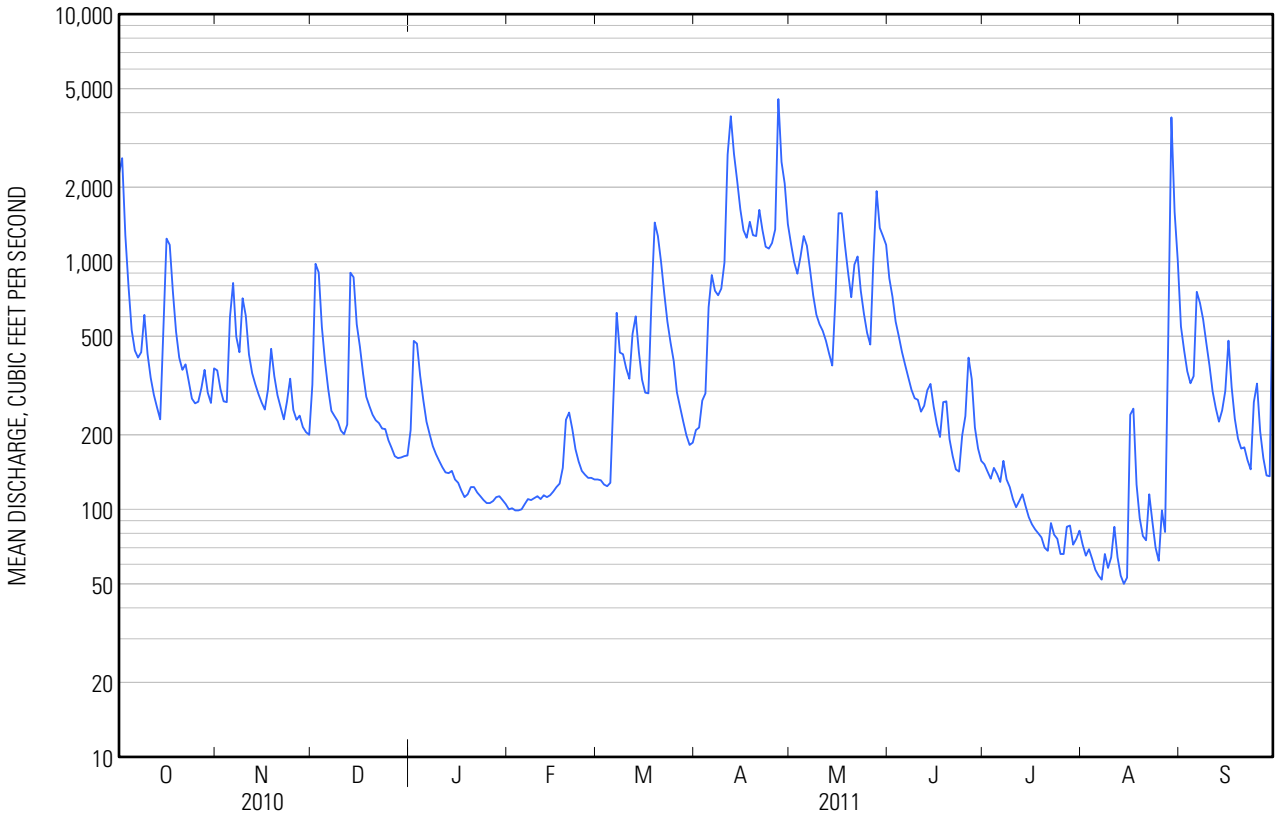
SUMMARY STATISTICS

	Water Year 2011		Water Years 2010 - 2011	
Annual total	167,748			
Annual mean	460		460	
Highest annual mean			460	2011
Lowest annual mean			460	2011
Highest daily mean	4,540	Apr 27	4,540	Apr 27, 2011
Lowest daily mean	50	Aug 14	40	Sep 7, 2010[a]
Annual seven-day minimum	59	Aug 4	43	Sep 21, 2010
Maximum peak flow	6,070	Apr 27	6,070	Apr 27, 2011
Maximum peak stage	10.27	Aug 29	10.27	Aug 29, 2011
Instantaneous low flow	48	Aug 14	37	Sep 22, 2010
Annual runoff (cfsm)	2.97		2.97	
Annual runoff (inches)	40.26		40.29	
10 percent exceeds	1,160		1,160	
50 percent exceeds	268		268	
90 percent exceeds	89		89	

[a] Also September 22, 23, 2010.