Water-Data Report 2011

04273800 LITTLE AUSABLE RIVER NEAR VALCOUR, NY

Richelieu Basin
Ausable Subbasin

LOCATION.--Lat 44°35′39″, long 73°29′48″ referenced to North American Datum of 1927, Clinton County, NY, Hydrologic Unit 02010004, on left bank at upstream side of bridge on Fuller Road, 2.8 mi southwest of Valcour, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--67.8 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956-1961, 1966, 1973-1974. October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 260 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,210 ft^3/s, June 27, 1998, gage height, 13.78 ft, outside gage height was about 14.6 ft, from floodmark, from rating curve extended above 3,300 ft^3/s on basis of peak flow from contracted-opening measurement at site 0.4 mi upstream; minimum discharge, 1.4 ft^3/s, July 23, 1999; minimum gage height, 0.92 ft, Sept. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 8	0730	ice jam	*5.94
Apr 28	1515	1,110	3.32
May 28	1400	1,720	3.81
Aug 29	1115	*2,240	4.14

Minimum discharge, 8.1 ft^3/s, Aug. 7, gage height, 1.09 ft.

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 04273800, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04273800.2011.pdf

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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	151	63	95	e64	e28	e47	150	225	149	34	16	81
2	205	56	274	e83	e28	e56	171	188	115	32	13	56
3	114	51	238	e86	e29	e50	196	261	97	31	12	42
4	60	50	140	e80	e31	e56	221	636	83	30	12	40
5	40	88	103	e68	e33	e53	282	494	73	28	11	84
6	37	112	82	e60	e37	e52	337	305	71	26	9.8	203
7	67	101	70	e52	e39	e82	250	236	66	25	9.8	227
8	72	92	75	e52	e35	e147	206	188	59	26	12	201
9	63	217	e80	e49	e31	e146	200	148	61	26	15	161
10	50	243	e59	e47	e26	e130	234	128	89	24	45	110
11	40	145	e64	e45	e25	e124	500	118	109	21	49	76
12	34	105	e80	e43	e24	e136	497	110	126	27	35	56
13	31	82	e103	e43	e25	e140	402	101	193	49	23	45
14	28	72	e92	e43	e27	e140	400	105	154	39	20	53
15	117	66	e84	e41	e30	e128	261	312	109	41	19	80
16	518	60	e75	e43	e34	e116	205	650	82	36	26	98
17	361	69	e69	e42	e38	e108	190	509	64	28	32	84
18	145	74	e65	e40	e42	e170	199	371	59	23	28	61
19	92	71	e62	e38	e45	e234	175	269	50	20	22	47
20	70	64	e57	e39	e47	e295	288	227	46	18	17	42
21	58	58	e56	e41	e45	330	401	249	40	17	15	40
22	50	56	e54	e39	e42	243	241	218	37	16	22	41
23	49	53	e54	e35	e40	232	192	172	43	15	19	47
24	45	53	e51	e34	e35	184	171	145	50	16	16	70
25	50	52	e55	e33	e34	165	155	127	60	16	14	73
26	56	49	e60	e32	e34	139	229	142	65	16	14	62
27	65	50	e63	e32	e36	129	574	527	69	16	13	49
28	65	48	e69	e32	e39	117	752	829	56	16	210	43
29	62	46	e61	e31	---	109	637	413	44	15	990	49
30	58	46	e52	e30	---	116	331	416	38	19	373	109
31	60	---	e55	e29	---	126	---	223	---	18	149	---
Total	2,913	2,392	2,597	1,426	959	4,300	9,047	9,042	2,357	764	2,261.6	2,430
Mean	94.0	79.7	83.8	46.0	34.2	139	302	292	78.6	24.6	73.0	81.0
Max	518	243	274	86	47	330	752	829	193	49	990	227
Min	28	46	51	29	24	47	150	101	37	15	9.8	40
Cfsm	1.39	1.18	1.24	0.68	0.51	2.05	4.45	4.30	1.16	0.36	1.08	1.19
In.	1.60	1.31	1.42	0.78	0.53	2.36	4.96	4.96	1.29	0.42	1.24	1.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40.0	55.1	53.3	57.8	37.8	91.4	166	83.4	65.1	41.4	24.9	22.5
Max	123	171	133	147	90.4	251	329	292	370	333	73.0	81.0
(WY)	(2006)	(1997)	(2004)	(1998)	(2006)	(1998)	(1993)	(2011)	(1998)	(1998)	(2011)	(2011)
Min	10.9	15.4	18.2	15.5	15.1	23.3	36.9	26.5	12.1	8.21	7.53	6.58
(WY)	(2002)	(2002)	(2002)	(1994)	(1992)	(2001)	(1995)	(1995)	(1999)	(1992)	(2001)	(1992)

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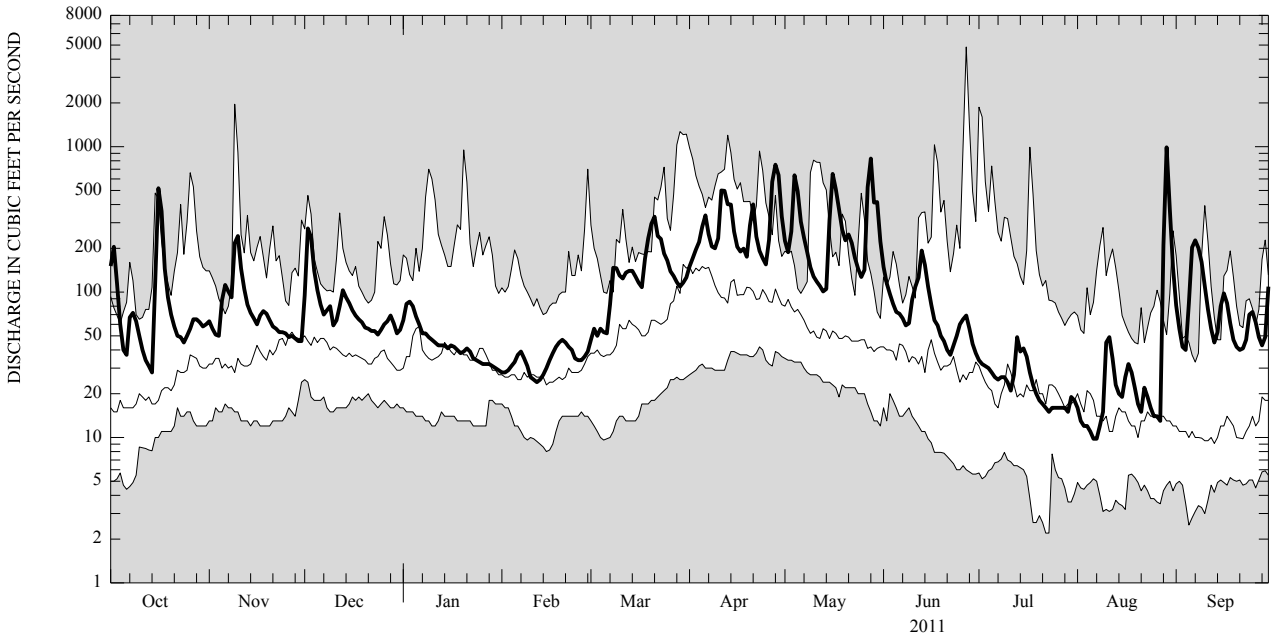
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1992 - 2011	
Annual total	22,463.5		40,488.6			
Annual mean	61.5		111		61.6	
Highest annual mean					136	1998
Lowest annual mean					26.3	1995
Highest daily mean	723	Mar 24	990	Aug 29	4,850	Jun 27, 1998
Lowest daily mean	5.0	Sep 6	9.8	Aug 6	2.2	Jul 22, 1999
Annual seven-day minimum	5.6	Sep 4	11	Aug 2	2.7	Jul 17, 1999
Annual runoff (cfsm)	0.908		1.64		0.908	
Annual runoff (inches)	12.33		22.21		12.34	
10 percent exceeds	123		243		121	
50 percent exceeds	40		60		35	
90 percent exceeds	11		24		11	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.