04275500 AUSABLE RIVER NEAR AU SABLE FORKS, NY

Richelieu Basin
Ausable Subbasin

LOCATION.--Lat 44°27′05″, long 73°38′35″ referenced to North American Datum of 1927, Clinton County, NY, Hydrologic Unit 02010004, on left bank 1.8 mi downstream from confluence of East and West Branches, and 1.8 mi east of Au Sable Forks.

DRAINAGE AREA.--446 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1910 to September 1968, March 1990 to current year. Prior to October 1924, published as "at Au SableForks". Monthly discharge only for winter periods during 1911 and 1913 water years, published in WSP 1307.

REVISED RECORDS.--WSP 1307: 1911-19 (M), 1922-24 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 505.65 ft above NGVD of 1929. Prior to Oct. I, 1924, chain gage at site 1.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation by Fern Lake and Taylor Pond in Black Brook basin and Upper and Lower Ausable Lakes. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,400 ft^3/s, Nov. 9, 1996, gage height, 13.83 ft, from rating curve extended above 13,000 ft^3/s on basis of runoff comparison of peak flow from contracted-opening measurement at site 3.9 mi downstream; maximum gage height, at least 14.5 ft, from floodmark 200 ft upstream from gage, Mar. 13, 1990 (ice jam); minimum discharge, practically no flow July 21, 1912, result of unusual regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 23, 1990 (ice jam), reached a stage of 14.5 ft, from floodmark 200 ft upstream from gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 9	1730	8,420	6.73
Apr 12	1745	*9,480	*7.43
Apr 20	0030	6,440	6.20

Minimum discharge, 152 ft^3/s, Oct. 5, 6, gage height, 1.20 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	194	466	618	524	e539	485	986	1,550	653	372	938	199
2	177	407	508	496	e566	478	e1,610	1,180	570	289	625	199
3	166	361	e469	389	e585	488	e1,620	1,080	494	254	771	192
4	161	331	e438	452	546	e630	1,670	1,420	518	266	1,010	188
5	155	309	e407	558	576	737	1,720	1,420	532	244	753	186
6	163	340	e384	556	e709	e840	2,100	1,150	1,260	220	1,360	179
7	212	476	e374	e540	e802	892	2,650	1,100	1,420	200	1,470	183
8	271	404	e361	e2,100	750	847	3,010	1,200	838	189	1,970	183
9	360	344	e351	e6,000	653	773	4,000	1,260	592	185	1,640	192
10	324	306	e333	4,450	580	767	5,680	955	499	203	1,050	236
11	336	278	e323	2,530	505	715	4,370	813	549	203	839	220
12	297	267	e313	2,680	512	676	7,020	750	473	195	812	202
13	309	279	e313	1,710	e491	620	6,040	656	372	184	695	223
14	308	300	e315	1,250	e478	590	3,350	596	342	553	552	251
15	303	495	e325	983	e447	580	2,460	620	385	446	461	443
16	274	939	e338	791	e435	579	2,220	624	336	297	413	334
17	257	685	e351	687	e447	526	2,670	550	294	231	365	272
18	234	494	e356	e620	e714	496	4,220	513	261	208	333	231
19	238	387	e371	e549	e878	495	5,260	533	263	281	618	204
20	1,640	414	e382	e470	e905	e693	5,780	566	279	789	761	193
21	904	454	e430	e411	827	745	5,180	531	295	3,540	541	187
22	520	1,820	e538	e443	685	691	4,600	508	300	2,060	412	181
23	788	2,340	693	e484	665	612	4,230	505	297	1,220	344	179
24	3,050	1,120	e1,480	e465	601	542	3,810	565	296	1,510	300	179
25	1,220	826	1,510	452	600	519	2,880	533	274	1,700	285	179
26	685	640	1,030	e465	540	e505	2,510	481	255	972	264	177
27	842	1,560	764	478	517	e484	2,740	500	260	1,000	247	207
28	2,190	1,610	651	485	501	e468	2,520	494	256	827	233	225
29	1,220	1,060	e598	500	441	e447	3,410	426	312	575	223	227
30	757	800	e570	494	---	447	2,380	380	414	452	214	249
31	567	---	e536	e511	---	494	---	416	---	789	207	---
Total	19,122	20,512	16,430	33,523	17,495	18,861	102,696	23,875	13,889	20,454	20,706	6,500
Mean	617	684	530	1,081	603	608	3,423	770	463	660	668	217
Max	3,050	2,340	1,510	6,000	905	892	7,020	1,550	1,420	3,540	1,970	443
Min	155	267	313	389	435	447	986	380	255	184	207	177
Cfsm	1.38	1.53	1.19	2.42	1.35	1.36	7.68	1.73	1.04	1.48	1.50	0.49
In.	1.59	1.71	1.37	2.80	1.46	1.57	8.57	1.99	1.16	1.71	1.73	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	520	637	538	483	368	841	1,918	1,377	642	369	297	336
Max	1,637	1,740	1,659	1,968	1,010	3,288	3,436	3,101	1,905	1,444	718	1,255
(WY)	(1919)	(2006)	(1921)	(1998)	(1925)	(1921)	(1960)	(1947)	(1998)	(1947)	(1943)	(1938)
Min	175	229	169	132	118	167	600	359	182	150	99.4	96.5
(WY)	(1915)	(1940)	(1923)	(1918)	(1931)	(1940)	(1995)	(1921)	(1941)	(1965)	(1923)	(1921)

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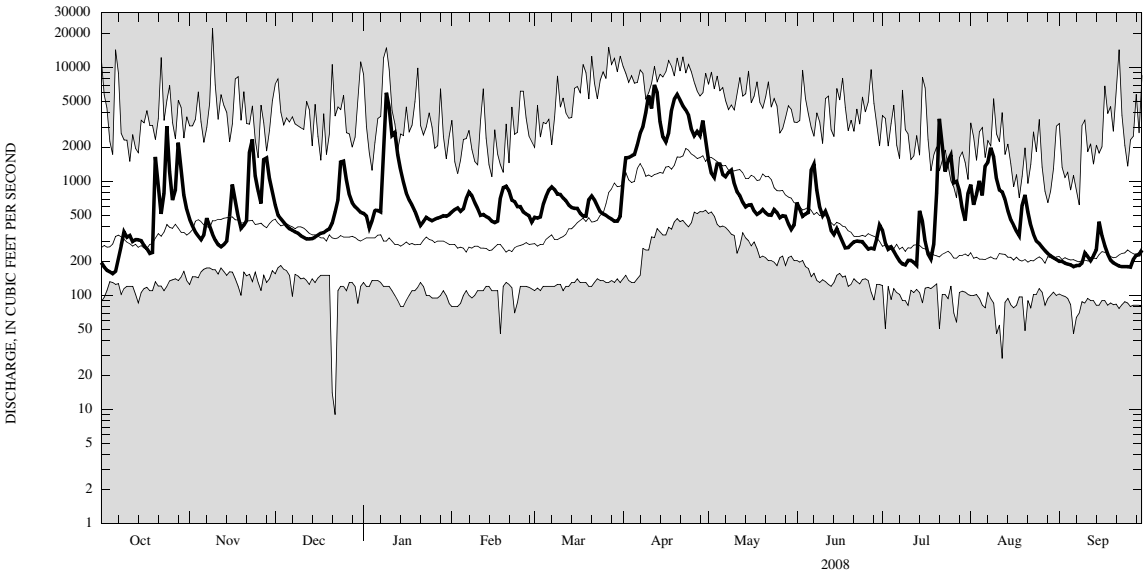
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1910 - 2008	
Annual total	282,474		314,063			
Annual mean	774		858		696	
Highest annual mean					1,087	1947
Lowest annual mean					380	1965
Highest daily mean	9,040	Apr 24	7,020	Apr 12	22,000	Nov 9, 1996
Lowest daily mean	119	Sep 25	155	Oct 5	9.0	Dec 22, 1912
Annual seven-day minimum	126	Sep 3	175	Oct 1	72	Aug 8, 1923
Annual runoff (cfsm)	1.74		1.92		1.56	
Annual runoff (inches)	23.56		26.20		21.22	
10 percent exceeds	1,850		1,860		1,540	
50 percent exceeds	385		510		366	
90 percent exceeds	160		218		168	



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.