04271500 GREAT CHAZY RIVER AT PERRY MILLS, NY

Richelieu Basin
Great Chazy-Saranac Subbasin

LOCATION.--Lat 45°00′00″, long 73°30′05″ referenced to North American Datum of 1927, Clinton County, NY, Hydrologic Unit 02010006, on left bank 500 ft upstream from bridge on Creek Road at Perry Mills, and 7.5 mi upstream from Corbeau Creek.

DRAINAGE AREA.--243 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1928 to September 1968, water years 1985 and 1987-89 (annual maximum only), March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 164.93 ft above NGVD of 1929. April 1987 to February 1990, crest-stage gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. At flows greater than about 2,000 ft^3/s, significant undetermined amounts of flow bypass the gage. Records prior to October 1968 affected by diurnal fluctuation at low and medium flow by sawmill immediately upstream. Occasional regulation by Chazy Lake (usable capacity, about 765 mil ft^3) from which the Clinton Correctional Facility at Dannemora (Saranac River basin) obtains its water supply (about 1 ft^3/s). Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,700 ft^3/s, Nov. 9, 1996, gage height, 12.24 ft; maximum gage height, 12.91 ft, from floodmark in gage well, Feb. 28, 2000 (ice jam); minimum discharge, about 0.8 ft^3/s, Sept. 18, 1932; minimum gage height, 1.22 ft, Sept. 6, 14, 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and (or) maximum (*):

[e, estimated]

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 15	1800	ice jam	*11.65
Mar 28	--	e*3,100	ice jam
Apr 17	0930	2,700	6.35

Minimum discharge, 30 ft^3/s, Sept. 26, 27, gage height, 1.47 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	81	475	615	379	e137	e170	775	683	181	64	153	51
2	79	420	2,040	575	e131	e178	780	573	255	59	124	47
3	91	283	1,330	530	e125	e190	945	411	255	60	105	44
4	76	215	827	423	e121	e205	1,310	341	199	65	92	40
5	75	192	e420	472	e120	e220	1,960	305	266	95	79	37
6	85	179	e300	1,210	e119	e233	1,380	274	442	100	119	46
7	73	174	e250	1,630	e120	e240	917	257	294	77	233	55
8	63	183	e220	1,150	e119	e246	731	241	211	84	168	44
9	59	244	e200	1,130	e120	e244	640	223	170	269	152	40
10	56	233	e240	755	e119	e250	504	210	147	812	114	41
11	53	217	256	e381	e118	e258	443	208	131	531	95	49
12	56	504	264	e331	e121	e286	492	200	118	479	84	118
13	58	698	254	e296	e121	e348	1,230	182	106	402	77	110
14	57	596	275	e284	e121	e428	1,490	168	95	340	70	75
15	55	557	291	e268	e120	e498	1,440	164	89	200	66	71
16	52	410	283	e261	e114	e579	1,700	756	83	150	67	73
17	52	880	287	e249	e112	e529	2,590	2,100	76	123	85	66
18	82	723	265	e235	e109	e397	2,110	1,190	74	102	108	56
19	132	481	237	e231	e108	e321	2,100	758	73	94	83	50
20	142	376	214	e231	e107	e294	2,240	574	100	119	71	46
21	371	313	212	e219	e111	e317	2,180	501	104	419	65	42
22	297	274	193	e214	e115	e368	2,090	433	91	292	60	39
23	383	246	382	e198	e119	e442	2,080	334	80	168	57	37
24	466	233	612	e194	e127	e534	2,290	277	73	128	67	33
25	398	223	468	e185	e134	e637	1,620	233	69	122	75	32
26	400	218	452	e173	e142	e905	1,130	196	67	105	73	31
27	316	220	579	e169	e151	e1,430	1,020	176	61	94	67	39
28	399	261	444	e165	e160	e3,000	990	201	92	326	59	396
29	1,080	258	326	e153	---	2,100	738	218	115	864	55	344
30	767	236	262	e149	---	1,430	691	183	78	460	52	163
31	545	---	314	e146	---	1,140	---	172	---	227	52	---
Total	6,899	10,522	13,312	12,986	3,441	18,417	40,606	12,742	4,195	7,430	2,827	2,315
Mean	223	351	429	419	123	594	1,354	411	140	240	91.2	77.2
Max	1,080	880	2,040	1,630	160	3,000	2,590	2,100	442	864	233	396
Min	52	174	193	146	107	170	443	164	61	59	52	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	164	229	226	264	213	498	943	395	226	131	90.9	88.2
Max	1,083	910	883	775	553	1,217	2,377	969	1,068	823	274	368
(WY)	(2006)	(1997)	(2004)	(1930)	(1930)	(1936)	(1993)	(1947)	(2002)	(1947)	(1962)	(1954)
Min	22.3	35.8	41.1	51.7	46.5	70.5	236	97.2	43.5	23.1	26.2	20.2
(WY)	(1967)	(1931)	(1967)	(1956)	(1956)	(1956)	(1995)	(1941)	(1941)	(1965)	(1966)	(1966)

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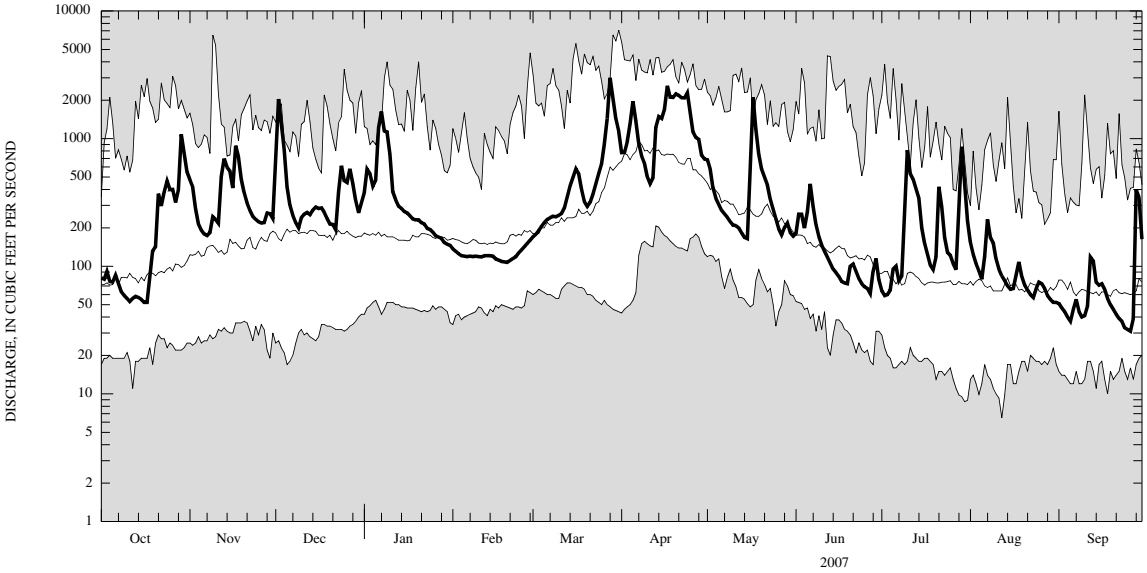
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1928 - 2007	
Annual total	125,874		135,692			
Annual mean	345		372		288	
Highest annual mean					514	1947
Lowest annual mean					97.2	1965
Highest daily mean	2,650	May 20	3,000	Mar 28	7,090	Mar 31, 1998
Lowest daily mean	38	Sep 13	31	Sep 26	6.5	Aug 12, 2001
Annual seven-day minimum	42	Sep 7	36	Sep 21	11	Aug 7, 2001
10 percent exceeds	700		890		653	
50 percent exceeds	250		214		146	
90 percent exceeds	56		60		46	



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.