Water-Data Report 2013

04271500 GREAT CHAZY RIVER AT PERRY MILLS, NY

Richelieu Basin
Great Chazy-Saranac Subbasin

LOCATION.--Lat 45°00′00″, long 73°30′03″ referenced to North American Datum of 1983, 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, annual maximum only--1985, 1987-89, March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 164.93 ft above NGVD of 1929.

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 house, 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 (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 1	0100	ice jam	*9.67
May 27	0115	*4,010	8.02
Jun 12	1615	3,890	7.91
Jun 29	0230	3,510	7.54

Minimum discharge, 42 ft^3/s, Aug. 21, 22, gage height, 1.62 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04271500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04271500.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	76	325	85	e185	e388	e151	e509	245	384	1,080	82	56
2	136	290	111	e173	e801	e150	e568	225	388	701	86	56
3	118	255	190	e169	e638	e150	e542	207	379	739	89	160
4	99	220	268	e165	e487	e149	e530	191	281	680	85	118
5	128	200	256	e156	e405	e148	461	178	231	1,010	87	86
6	190	179	293	e153	e337	e152	411	168	203	562	84	85
7	379	165	220	e145	e292	e164	374	155	552	379	67	73
8	254	158	190	e136	e264	e186	466	147	1,260	635	58	66
9	173	150	177	e133	e214	e218	773	143	964	635	109	63
10	138	133	187	e131	e205	e245	1,180	143	570	453	197	61
11	120	130	284	e126	e191	e317	981	145	1,170	1,060	129	72
12	111	130	283	e123	e188	e481	782	153	3,600	882	104	189
13	103	130	236	e118	e178	e841	958	142	2,790	626	99	323
14	122	118	204	e117	e178	e632	1,110	129	1,570	613	102	329
15	198	111	185	e180	e175	e560	1,020	124	810	352	89	172
16	194	106	145	e258	e164	e486	927	123	573	198	82	118
17	170	103	202	e251	e175	e439	1,310	118	848	163	66	111
18	150	104	e256	e240	e167	e401	1,090	111	708	154	56	115
19	159	98	e315	e224	e175	e374	969	105	443	287	48	119
20	774	98	e325	e209	e167	e366	1,090	110	315	296	46	118
21	762	100	e337	e193	e169	e360	791	157	253	261	43	85
22	491	97	e456	e175	e167	e360	608	343	216	104	53	79
23	357	96	e482	e159	e161	e333	518	864	273	84	69	78
24	285	98	e396	e146	e157	e333	466	875	293	165	61	77
25	236	98	e325	e144	e157	e333	448	1,920	343	188	53	72
26	223	85	e287	e134	e150	e338	424	3,550	1,560	162	55	70
27	228	87	e261	e131	e156	e341	394	3,370	1,790	90	56	68
28	211	84	e251	e125	e152	e357	315	1,810	1,880	82	57	66
29	198	99	e224	e125	---	e384	265	1,200	3,040	93	54	66
30	203	85	e205	e127	---	e413	252	1,090	1,950	93	55	64
31	294	---	e194	e183	---	e438	---	561	---	87	61	---
Total	7,280	4,132	7,830	5,034	7,058	10,600	20,532	18,802	29,637	12,914	2,382	3,215
Mean	235	138	253	162	252	342	684	607	988	417	76.8	107
Max	774	325	482	258	801	841	1,310	3,550	3,600	1,080	197	329
Min	76	84	85	117	150	148	252	105	203	82	43	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	183	237	240	268	214	508	944	410	237	137	99.5	94.2
Max	1,083	910	883	775	553	1,217	2,377	1,288	1,068	823	349	511
(WY)	(2006)	(1997)	(2004)	(1930)	(1930)	(1936)	(1993)	(2011)	(2002)	(1947)	(2010)	(2011)
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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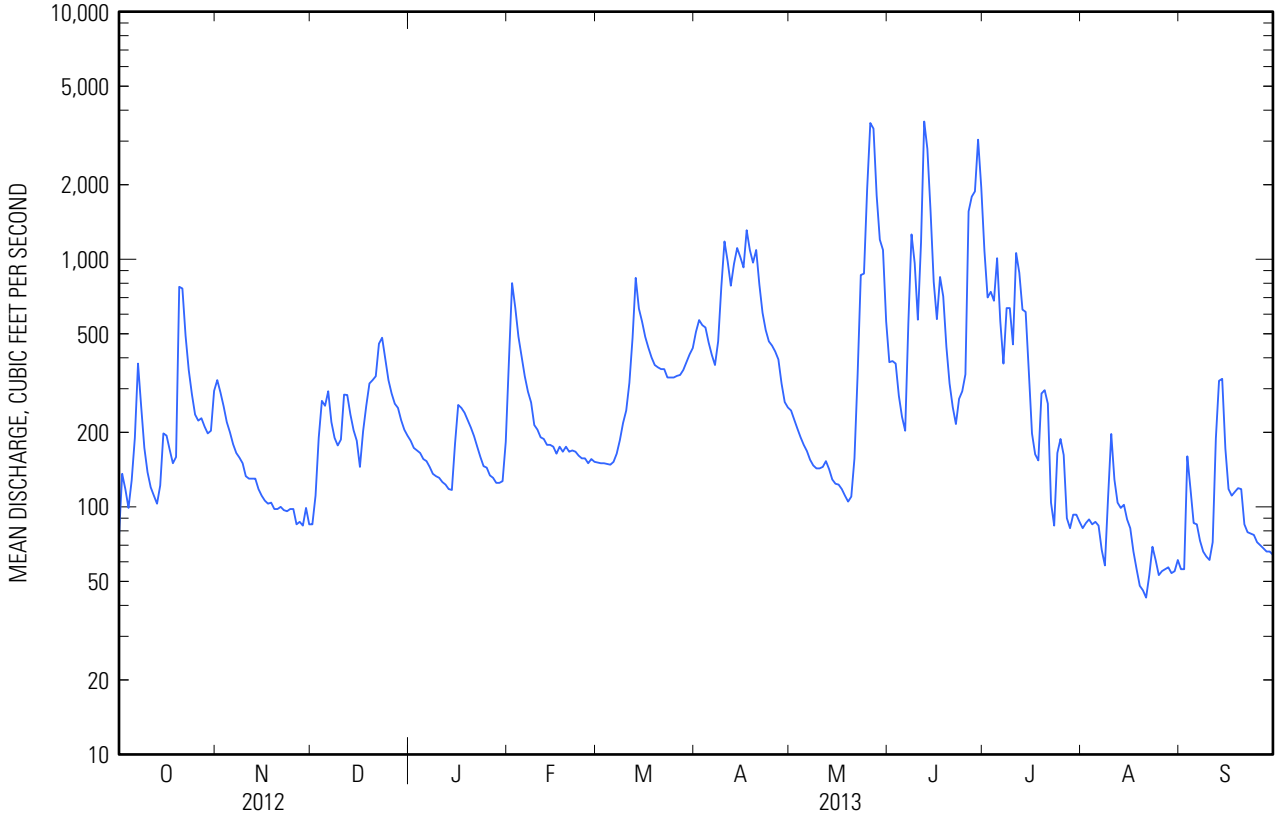
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1928 - 2013	
Annual total	96,071		129,416			
Annual mean	262		355		297	
Highest annual mean					553	2011
Lowest annual mean					97.2	1965
Highest daily mean	2,160	Apr 24	3,600	Jun 12	7,090	Mar 31, 1998
Lowest daily mean	22	Aug 31	43	Aug 21	6.5	Aug 12, 2001
Annual seven-day minimum	23	Aug 28	53	Aug 19	11	Aug 7, 2001
10 percent exceeds	504		805		674	
50 percent exceeds	199		190		151	
90 percent exceeds	47		82		47