Water-Data Report 2012

04265432 GRASS RIVER AT CHASE MILLS, NY

St. Lawrence Basin
Grass Subbasin

LOCATION.--Lat 44°50′48″, long 75°04′41″ referenced to North American Datum of 1983, St. Lawrence County, NY, Hydrologic Unit 04150304, on right bank 15 ft downstream from bridge on County Highway 36 at Chase Mills, and 21 mi upstream from mouth.

DRAINAGE AREA.--598 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 259.19 ft above NGVD of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft^3/s, Sept. 18, 2005, gage height, 7.53 ft; maximum gage height, 10.08 ft, Mar. 10, 2005 (ice jam); minimum discharge, 50 ft^3/s, Sept. 8, 9, 2007, gage height, 3.90 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 24	0515	ice jam	*6.44
Apr 25	0430	*3,700	6.00

Minimum discharge, 84 ft^3/s, Sept. 3, 4, gage height, 4.03 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 04265432, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/04265432.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	538	637	1,920	e1,040	1,790	604	892	1,360	339	227	199	91
2	674	611	1,630	e1,010	e1,660	549	819	1,800	366	194	147	89
3	812	580	1,350	e994	e1,500	696	792	1,880	390	175	121	86
4	762	561	1,130	e948	e1,350	e983	731	2,440	491	164	124	98
5	640	550	982	e905	e1,180	e902	688	2,840	596	171	121	212
6	555	526	1,510	e880	1,040	e852	641	2,630	656	173	115	1,280
7	490	514	2,650	e839	e970	e862	606	2,100	542	180	130	1,270
8	442	489	2,450	e816	e893	e1,520	564	1,630	459	158	161	912
9	402	491	1,890	e801	816	e2,100	549	1,880	406	144	170	639
10	370	490	1,470	e786	744	e2,470	743	2,220	371	134	159	441
11	341	467	1,200	e771	713	e2,320	1,980	2,000	383	122	147	345
12	342	456	865	e750	e665	e2,120	2,500	1,800	362	118	151	278
13	344	448	918	e709	e595	e2,650	2,130	1,480	409	125	230	231
14	395	453	873	e670	e568	3,210	1,500	1,190	634	121	313	201
15	597	458	917	e651	538	3,500	1,100	988	589	113	279	203
16	2,440	464	1,520	e644	533	3,310	920	880	448	114	242	262
17	3,380	458	2,200	e652	e580	3,460	824	831	350	155	229	336
18	3,310	453	1,720	e652	e605	3,380	735	764	288	195	201	310
19	2,770	428	1,110	e639	e602	3,030	666	679	253	445	173	325
20	2,330	411	1,200	e654	e586	2,730	596	606	230	565	149	500
21	2,050	404	1,040	e691	e562	2,450	593	555	215	428	131	554
22	1,860	392	1,240	e785	549	2,180	815	513	198	303	117	472
23	1,620	428	1,460	e908	e641	1,840	1,710	555	184	232	110	581
24	1,350	606	1,200	e1,050	e744	1,510	3,110	804	181	183	103	618
25	1,160	824	1,110	e1,250	817	1,260	3,530	763	179	176	99	501
26	1,140	1,040	1,020	e1,570	e843	1,080	3,120	603	200	162	94	381
27	1,010	1,060	927	e1,970	e774	952	2,640	499	320	159	92	264
28	909	967	e1,010	e2,660	678	850	2,380	438	399	216	118	161
29	805	1,130	e1,010	e3,460	e641	875	2,010	402	357	328	110	256
30	731	1,530	e1,000	e2,860	---	1,010	1,540	361	280	303	93	252
31	677	---	e990	e2,280	---	983	---	355	---	242	91	---
Total	35,246	18,326	41,512	35,295	24,177	56,238	41,424	37,846	11,075	6,525	4,719	12,149
Mean	1,137	611	1,339	1,139	834	1,814	1,381	1,221	369	210	152	405
Max	3,380	1,530	2,650	3,460	1,790	3,500	3,530	2,840	656	565	313	1,280
Min	341	392	865	639	533	549	549	355	179	113	91	86
Cfsm	1.90	1.02	2.24	1.90	1.39	3.03	2.31	2.04	0.62	0.35	0.25	0.68
In.	2.19	1.14	2.58	2.20	1.50	3.50	2.58	2.35	0.69	0.41	0.29	0.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,368	1,382	1,627	1,363	820	1,738	2,256	1,263	673	626	432	652
Max	2,851	2,281	2,425	2,220	1,524	2,881	3,577	3,167	893	1,016	950	1,793
(WY)	(2006)	(2004)	(2009)	(2008)	(2006)	(2011)	(2008)	(2011)	(2008)	(2009)	(2004)	(2005)
Min	505	611	1,148	500	443	793	1,042	715	369	210	130	112
(WY)	(2005)	(2012)	(2010)	(2011)	(2011)	(2005)	(2010)	(2008)	(2012)	(2012)	(2007)	(2007)

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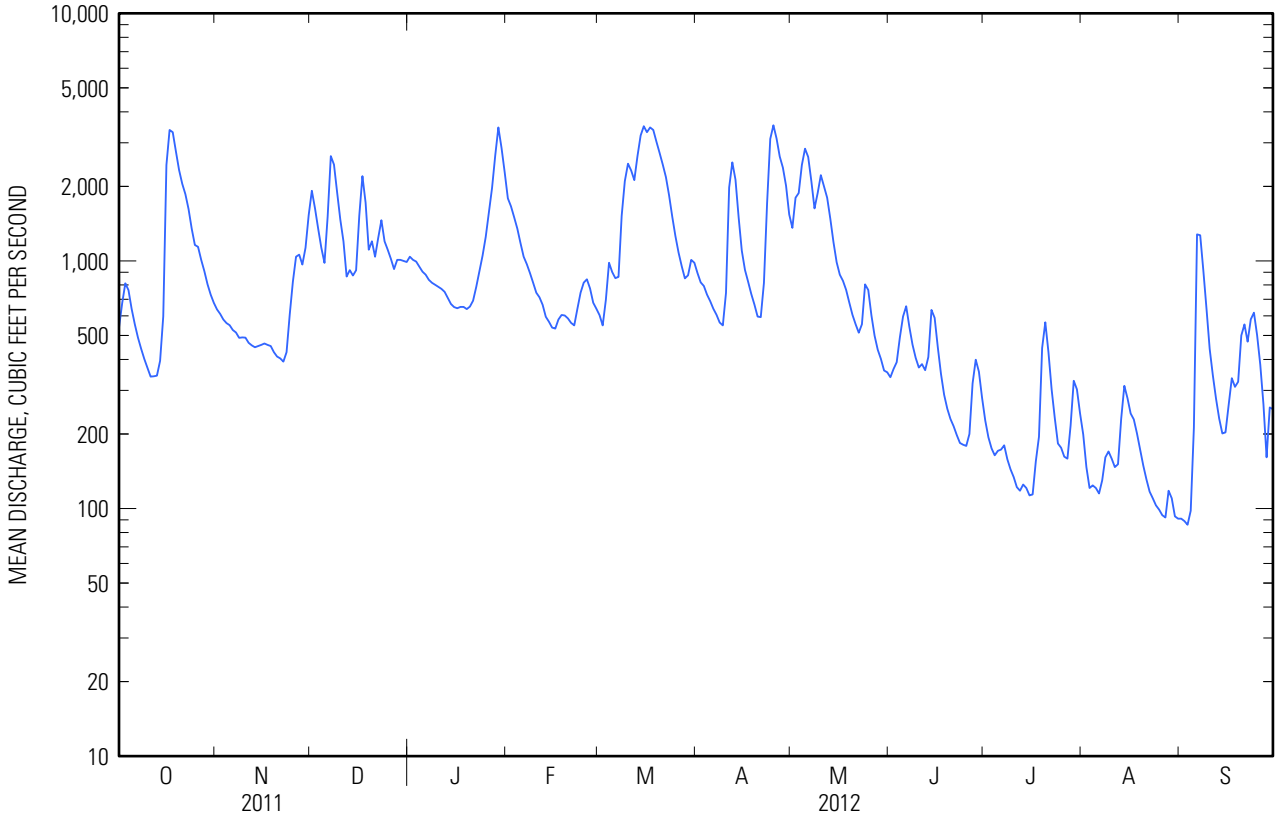
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 2003 - 2012	
Annual total	501,307		324,532			
Annual mean	1,373		887		1,185	
Highest annual mean					1,548	2011
Lowest annual mean					887	2012
Highest daily mean	8,370	May 17	3,530	Apr 25	9,110	Sep 18, 2005
Lowest daily mean	236	Aug 8	86	Sep 3	54	Sep 9, 2007
Annual seven-day minimum	316	Jan 30	94	Aug 29	69	Sep 4, 2007
Annual runoff (cfsm)	2.30		1.48		1.98	
Annual runoff (inches)	31.18		20.19		26.93	
10 percent exceeds	3,460		2,110		2,600	
50 percent exceeds	731		641		791	
90 percent exceeds	349		160		260