04280450 METTAWEE RIVER NEAR MIDDLE GRANVILLE, NY

Richelieu Basin
Lake George Subbasin

LOCATION.--Lat 43°27′50″, long 73°17′05″ referenced to North American Datum of 1927, Washington County, NY, Hydrologic Unit 02010001, on right bank 110 ft downstream from bridge on County Highway 21, and 2.2 mi north of Middle Granville.

DRAINAGE AREA.--167 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1990 to current year.

REVISED RECORDS.--WDR NY-97-1: 1993, 1994(P), 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft^3/s, Dec. 17, 2000, gage height, 13.47 ft, minimum discharge, 6.8 ft^3/s, Sept. 11, 2002; minimum gage height, 2.81 ft, Sept. 7, 1995, Sept. 11, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14, 1977, reached a discharge of about 14,500 ft^3/s, on basis of runoff comparison of peak discharge from contracted-opening measurement at Grays Corners near Whitehall (drainage area 200 mi^2). Flood of May 31, 1984, reached a discharge of about 5,400 ft^3/s, on basis of slope-area measurement of peak flow 2.8 mi upstream at Middle Granville (drainage area 156 mi^2).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 15	1000	ice jam	*8.53
Mar 15	1600	*3,360	7.82
Apr 16	2345	3,150	7.64

Minimum discharge, 12 ft^3/s, Sept. 8, gage height, 2.93 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	120	351	357	570	e190	e74	737	459	188	68	42	18
2	165	398	709	664	e190	e74	795	413	293	64	39	16
3	123	375	469	531	e180	e73	736	366	566	61	36	15
4	108	323	405	480	e170	e73	799	328	351	59	34	15
5	136	292	357	456	e160	e72	894	299	410	65	31	14
6	118	270	322	764	e150	e67	710	272	367	65	31	13
7	103	252	324	723	e140	e58	599	247	290	73	33	13
8	94	265	313	1,270	e130	e57	531	229	249	63	44	12
9	88	520	274	1,270	e130	e63	479	215	219	76	43	16
10	83	395	263	899	e130	e83	442	242	194	74	35	28
11	79	346	255	697	e120	e130	408	780	186	66	32	32
12	100	326	251	617	e110	e190	537	500	249	138	29	47
13	105	364	262	589	e100	e230	629	392	288	85	28	34
14	97	349	292	530	e98	e500	580	332	213	67	29	27
15	90	345	268	525	e95	e2,000	686	303	181	60	26	37
16	85	322	267	565	e90	1,360	1,960	419	159	57	25	44
17	85	476	245	431	e90	815	2,280	483	144	56	25	32
18	118	412	233	430	e90	696	1,510	395	136	79	22	28
19	118	373	221	389	e90	567	1,270	369	128	164	21	25
20	266	342	209	360	e86	477	1,190	474	172	161	20	23
21	567	311	202	e340	e85	413	1,080	572	134	131	21	22
22	356	289	195	321	e83	478	996	462	142	100	20	20
23	309	271	491	286	e86	1,270	938	399	149	85	20	18
24	280	257	474	261	e85	1,100	909	352	118	79	21	17
25	245	236	393	e240	e80	1,270	728	311	104	70	22	16
26	219	224	551	e220	e78	1,070	598	276	94	63	29	17
27	201	213	536	e210	e78	1,440	520	245	86	57	25	24
28	478	205	455	e210	e78	1,530	472	286	81	54	21	71
29	736	196	407	e210	---	1,200	454	231	74	55	19	39
30	484	188	376	e210	---	965	520	204	68	48	22	30
31	401	---	349	e210	---	844	---	191	---	44	20	---
Total	6,557	9,486	10,725	15,478	3,192	19,239	24,987	11,046	6,033	2,387	865	763
Mean	212	316	346	499	114	621	833	356	201	77.0	27.9	25.4
Max	736	520	709	1,270	190	2,000	2,280	780	566	164	44	71
Min	79	188	195	210	78	57	408	191	68	44	19	12
Cfsm	1.27	1.89	2.07	2.99	0.68	3.72	4.99	2.13	1.20	0.46	0.17	0.15
In.	1.46	2.11	2.39	3.45	0.71	4.29	5.57	2.46	1.34	0.53	0.19	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	149	252	353	380	247	471	618	352	193	137	109	65.9
Max	688	636	773	801	461	673	1,163	776	402	400	434	225
(WY)	(2006)	(2006)	(2004)	(1998)	(2000)	(1998)	(1994)	(1996)	(2006)	(1996)	(2004)	(2004)
Min	26.4	35.1	79.0	89.6	94.8	225	238	135	54.1	24.5	17.4	16.8
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2006)	(1995)	(1995)	(1999)	(1995)	(2002)	(1995)

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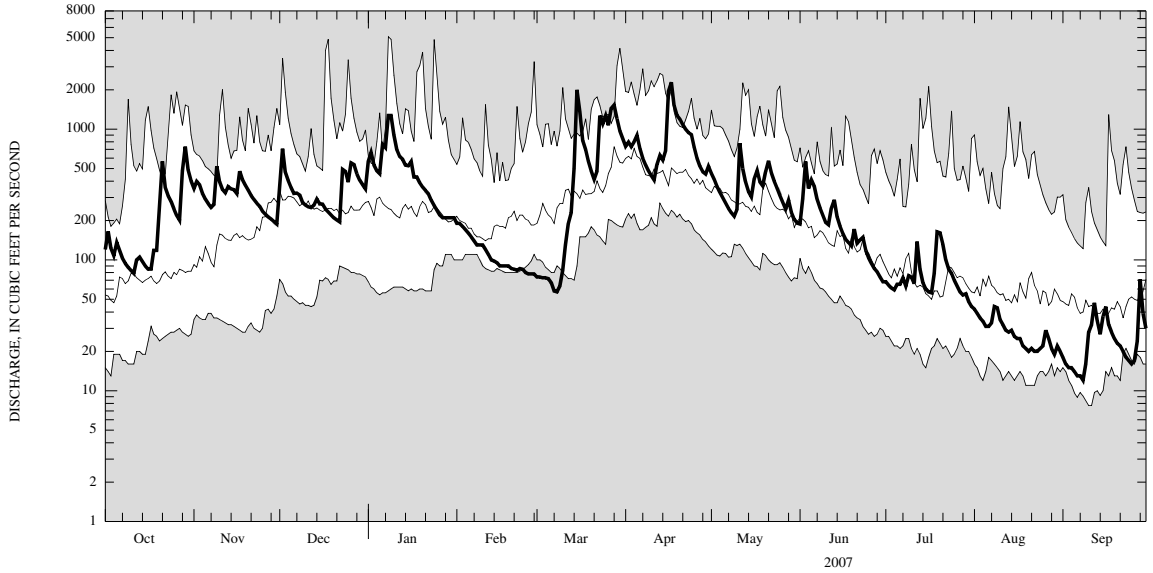
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1990 - 2007	
Annual total	117,033		110,758			
Annual mean	321		303		275	
Highest annual mean					392	2006
Lowest annual mean					155	1995
Highest daily mean	3,060	Jan 19	2,280	Apr 17	5,080	Jan 8, 1998
Lowest daily mean	41	Sep 13	12	Sep 8	7.7	Sep 10, 2002
Annual seven-day minimum	44	Sep 17	14	Sep 2	8.8	Sep 8, 2002
Annual runoff (cfsm)	1.92		1.82		1.65	
Annual runoff (inches)	26.07		24.67		22.41	
10 percent exceeds	589		702		600	
50 percent exceeds	256		210		176	
90 percent exceeds	74		28		35	



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.