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)
Oct 09	0900	2,340	6.90
Oct 26	0015	2,320	6.89
Nov 30	1045	2,110	6.68
Jan 18	2245	*7,210	a*10.46
Jul 13	0845	2,890	7.41

a Recorded; outside gage height was 10.67 ft, from crest-stage gage.

Minimum discharge, 39 ft^3/s, Oct 7, Sep 19; minimum gage height, 3.16 ft, Oct 7.

04280450 METTAWEE RIVER NEAR MIDDLE GRANVILLE, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	62	634	1,080	513	538	e130	205	171	400	467	208	63
2	55	641	853	457	491	e130	246	170	438	403	184	60
3	51	545	697	427	585	e130	215	233	609	361	168	58
4	47	479	601	384	647	e130	884	233	684	307	228	57
5	44	425	536	366	790	e120	870	208	551	272	192	55
6	41	388	481	348	699	e120	662	192	455	240	154	54
7	41	473	424	313	594	e130	589	187	429	214	150	52
8	414	394	e340	e290	523	e110	619	172	564	193	138	49
9	1,690	432	351	278	462	114	515	162	481	175	118	49
10	765	1,280	339	273	416	136	458	155	449	214	108	49
11	524	816	317	265	e380	161	418	149	438	173	108	45
12	478	654	299	704	e340	141	381	169	390	236	96	42
13	546	572	289	602	e320	228	353	214	349	1,720	88	41
14	496	501	286	1,140	e300	809	333	213	315	727	83	42
15	1,170	520	e260	1,380	294	550	325	235	286	486	80	51
16	1,490	688	e260	964	287	409	301	216	256	398	75	49
17	974	1,240	e240	805	325	344	281	230	230	326	70	45
18	717	827	221	2,740	293	298	265	222	212	277	65	43
19	593	683	209	3,060	e240	277	243	473	235	243	64	41
20	485	599	195	1,560	e220	257	223	877	325	210	124	48
21	412	536	e180	1,190	e210	234	205	678	246	193	130	46
22	368	648	e170	944	e200	232	196	677	210	430	94	44
23	989	737	166	804	e190	218	273	536	195	653	80	44
24	839	575	173	713	186	213	323	460	187	411	72	50
25	1,320	503	193	638	e180	217	273	395	168	313	68	59
26	1,930	449	632	571	e160	213	242	352	448	259	64	51
27	1,440	419	520	484	e140	200	225	336	705	222	66	48
28	1,070	438	410	464	e130	192	209	288	546	278	76	45
29	878	540	411	450	---	185	193	259	684	362	77	114
30	739	1,440	838	590	---	180	184	326	582	291	82	146
31	675	---	603	587	---	178	---	563	---	234	70	---
Total	21,343	19,076	12,574	24,304	10,140	6,986	10,709	9,751	12,067	11,288	3,380	1,640
Mean	688	636	406	784	362	225	357	315	402	364	109	54.7
Max	1,930	1,440	1,080	3,060	790	809	884	877	705	1,720	228	146
Min	41	388	166	265	130	110	184	149	168	173	64	41
Cfsm	4.12	3.81	2.43	4.69	2.17	1.35	2.14	1.88	2.41	2.18	0.65	0.33
In.	4.75	4.25	2.80	5.41	2.26	1.56	2.39	2.17	2.69	2.51	0.75	0.37

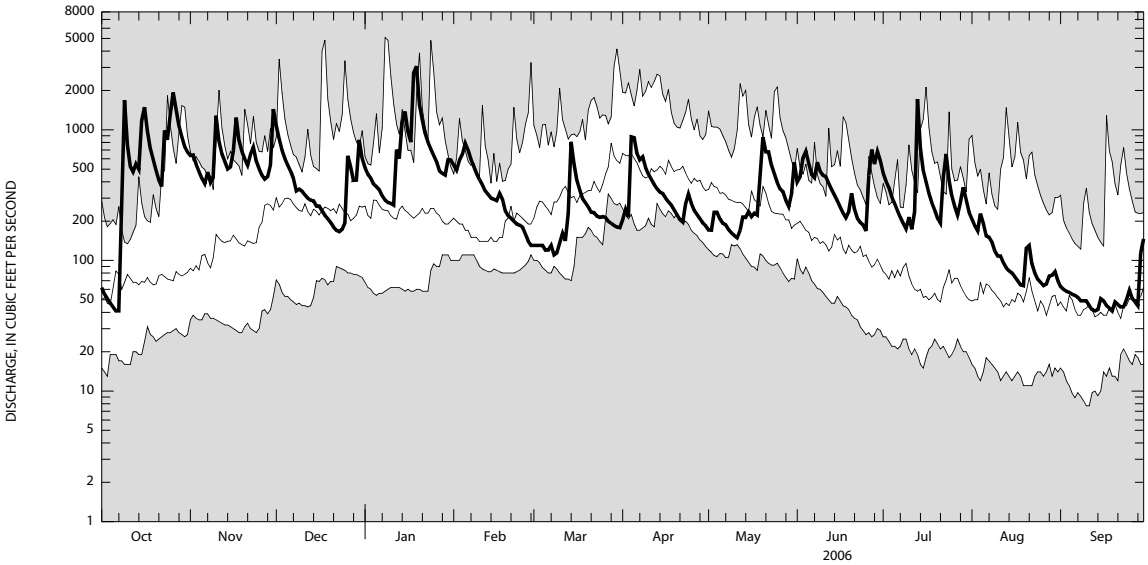
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	145	248	354	373	255	463	606	352	193	140	114	68.3
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)

04280450 METTAWEE RIVER NEAR MIDDLE GRANVILLE, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1990 - 2006	
Annual total	125,470		143,258			
Annual mean	344		392		274	
Highest annual mean					392	2006
Lowest annual mean					155	1995
Highest daily mean	2,300	Apr 3	3,060	Jan 19	5,080	Jan 8, 1998
Lowest daily mean	29	Aug 27	41	Oct 6	7.7	Sep 10, 2002
Annual seven-day minimum	35	Aug 22	44	Sep 17	8.8	Sep 8, 2002
Annual runoff (cfsm)	2.06		2.35		1.64	
Annual runoff (inches)	27.95		31.91		22.27	
10 percent exceeds	771		749		597	
50 percent exceeds	220		289		173	
90 percent exceeds	48		64		36	



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.