Water-Data Report 2010

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. Datum of gage is 315.77 ft above NGVD of 1929.

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)
Dec 3	1500	2,360	6.92
Jan 26	0145	*4,040	*8.36
Mar 23	1300	2,380	6.94

Minimum discharge, 12 ft^3/s, Sept. 26, gage height, 2.90 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	77	427	461	e191	e301	299	1,020	335	99	98	54	22
2	70	358	400	e184	e296	301	896	300	99	89	52	21
3	84	325	1,480	e180	e281	318	819	289	93	79	50	19
4	93	296	1,240	e183	e263	274	734	303	91	71	70	19
5	83	273	879	e182	e229	250	633	333	210	64	60	19
6	76	266	741	e176	e205	238	559	329	210	59	56	17
7	128	244	616	e175	e188	255	526	301	222	59	48	17
8	150	228	538	e167	e176	284	470	516	153	53	43	17
9	117	212	495	e175	e165	299	515	541	126	48	40	17
10	126	202	512	e179	e156	288	452	428	133	185	37	18
11	122	190	431	e186	e149	295	386	372	185	137	35	18
12	107	180	370	e180	e139	337	346	341	178	89	32	16
13	133	171	359	e184	e133	383	313	313	191	76	32	17
14	143	214	e500	e180	e126	822	283	351	165	306	30	20
15	124	334	e399	167	e121	1,160	261	319	152	193	27	18
16	115	264	e386	155	e119	976	288	281	129	139	33	19
17	106	230	e318	142	e117	798	531	246	134	116	35	25
18	100	211	e278	141	e114	754	480	222	123	98	30	24
19	95	200	e266	145	e112	736	425	237	107	94	27	20
20	91	407	e247	143	e110	747	378	243	105	112	24	19
21	89	396	e234	136	e107	723	349	206	101	89	22	17
22	88	331	e230	143	e105	670	322	183	88	84	49	17
23	85	301	e220	186	e108	1,790	297	166	97	79	70	16
24	623	298	e206	279	131	1,260	269	154	95	97	51	15
25	1,050	277	e190	1,140	167	914	256	141	108	127	40	14
26	559	278	e195	2,160	853	1,240	239	129	85	104	36	12
27	430	274	e297	e834	445	842	308	156	86	83	32	13
28	454	564	e314	e585	337	717	367	128	194	72	29	18
29	504	454	e231	e486	---	1,060	380	114	159	81	27	20
30	403	442	e207	e380	---	1,160	359	108	117	67	24	30
31	361	---	e200	e338	---	1,350	---	97	---	59	24	---
Total	6,786	8,847	13,440	10,082	5,753	21,540	13,461	8,182	4,035	3,107	1,219	554
Mean	219	295	434	325	205	695	449	264	134	100	39.3	18.5
Max	1,050	564	1,480	2,160	853	1,790	1,020	541	222	306	70	30
Min	70	171	190	136	105	238	239	97	85	48	22	12
Cfsm	1.31	1.77	2.60	1.95	1.23	4.16	2.69	1.58	0.81	0.60	0.24	0.11
In.	1.51	1.97	2.99	2.25	1.28	4.80	3.00	1.82	0.90	0.69	0.27	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	151	260	372	380	262	507	599	332	188	143	126	66.1
Max	688	636	773	801	609	868	1,163	776	402	400	434	225
(WY)	(2006)	(2006)	(2004)	(1998)	(2008)	(2008)	(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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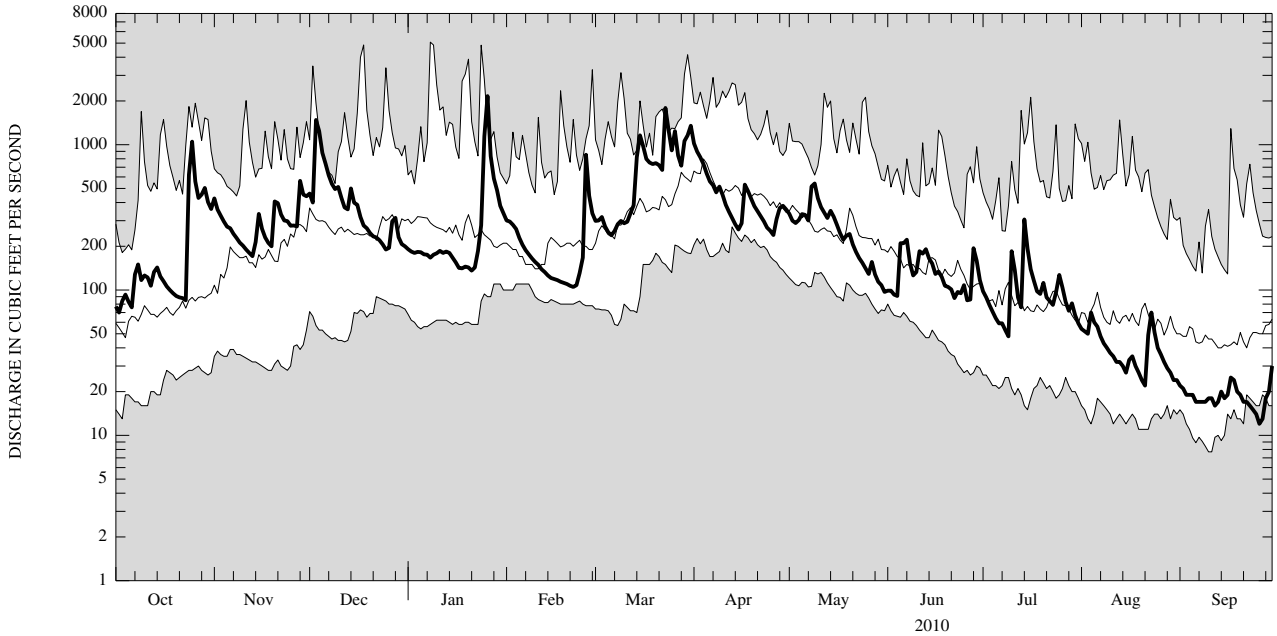
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1990 - 2010	
Annual total	103,608		97,006			
Annual mean	284		266		281	
Highest annual mean					392	2006
Lowest annual mean					155	1995
Highest daily mean	1,480	Dec 3	2,160	Jan 26	5,080	Jan 8, 1998
Lowest daily mean	46	Sep 26	12	Sep 26	7.7	Sep 10, 2002
Annual seven-day minimum	54	Sep 21	15	Sep 21	8.8	Sep 8, 2002
Annual runoff (cfsm)	1.70		1.59		1.68	
Annual runoff (inches)	23.08		21.61		22.83	
10 percent exceeds	583		561		613	
50 percent exceeds	202		183		180	
90 percent exceeds	102		28		37	



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.