01387450 MAHWAH RIVER NEAR SUFFERN, NY

PASSAIC RIVER BASIN

LOCATION.--Lat 41°08′28″, long 74°06′58″ referenced to North American Datum of 1983, Ramapo Township, Rockland County, NY, Hydrologic Unit 02030103, on left bank 13 ft upstream from bridge on U.S. Route 202, 4.8 mi upstream from mouth, and 2.5 mi northeast of Suffern.

DRAINAGE AREA.--12.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, water years 1959-95, October 2005 to current year. Annual maximum, water years 1996 to 2005.

REVISED RECORDS.--WDR NY-79-1:1977(P). WDR NY-87-1:1986.

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft above NGVD of 1929.

REMARKS.--Records are fair, except for estimated daily discharges, which are poor. Occasional regulation due to unknown source. Pumping from wells upstream of gage may affect flow past gage. Satellite gage-height telemetry at station.

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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	17	41	32	61	10	9.1	25	e30	5.2	2.3	3.2	2.8
2	14	43	41	45	11	208	25	e30	4.9	1.9	2.7	2.6
3	11	37	30	33	11	85	22	e27	5.2	1.6	2.3	2.7
4	10	31	27	30	9.3	52	35	e25	48	1.9	2.2	2.8
5	17	29	26	27	8.1	36	41	e22	30	e3.6	1.9	2.7
6	10	27	24	29	7.4	e27	30	e20	14	e2.8	1.9	2.6
7	8.9	25	23	26	7.3	23	26	e20	7.5	2.6	1.9	2.7
8	8.4	187	21	73	7.0	20	23	e19	5.4	e2.2	43	2.6
9	7.9	223	19	57	6.7	18	20	e18	4.8	2.0	7.5	2.5
10	7.5	102	19	43	6.7	18	19	e16	4.2	1.6	18	12
11	12	69	19	35	6.5	26	17	e16	4.1	2.0	13	12
12	55	57	18	31	6.4	24	47	e15	3.9	6.6	7.2	e7.9
13	27	50	20	31	6.4	22	46	e14	4.2	3.1	5.2	e4.3
14	22	55	21	30	e7.0	24	32	14	3.7	2.3	3.7	e3.4
15	19	46	19	33	7.0	30	251	14	3.5	2.3	3.3	e3.2
16	17	46	17	30	6.3	33	651	21	3.2	2.3	3.0	e3.2
17	18	82	16	25	6.1	29	254	23	3.2	2.1	3.0	3.1
18	40	57	15	22	6.1	26	123	17	2.9	6.7	4.0	2.9
19	30	48	14	23	6.6	22	85	16	2.9	4.3	3.2	2.8
20	35	42	14	21	6.2	25	66	16	3.3	9.0	3.0	2.7
21	37	37	14	19	7.2	29	58	12	2.8	3.8	14	2.7
22	32	33	14	18	9.2	36	e47	9.6	3.4	2.6	11	2.9
23	e29	53	45	17	12	78	e38	9.2	3.2	13	6.8	3.1
24	e26	59	31	16	9.8	76	37	8.3	2.9	11	5.6	2.8
25	e24	45	25	16	8.1	76	34	7.4	3.0	4.4	4.8	2.7
26	e22	40	34	13	8.2	58	34	7.1	3.1	3.2	4.0	2.6
27	e21	36	29	13	7.5	51	70	6.9	3.0	3.4	3.6	2.9
28	220	33	24	13	7.8	43	50	6.7	4.1	6.9	3.3	3.0
29	141	31	23	13	---	35	e38	6.2	3.7	4.1	3.1	3.0
30	77	28	22	11	---	30	e32	5.8	2.6	3.6	2.9	2.9
31	51	---	20	11	---	27	---	5.5	---	4.6	2.9	---
Total	1,066.7	1,692	716	865	218.9	1,296.1	2,276	477.7	195.9	123.8	195.2	110.1
Mean	34.4	56.4	23.1	27.9	7.82	41.8	75.9	15.4	6.53	3.99	6.30	3.67
Max	220	223	45	73	12	208	651	30	48	13	43	12
Min	7.5	25	14	11	6.1	9.1	17	5.5	2.6	1.6	1.9	2.5
Cfsm	2.80	4.59	1.88	2.27	0.64	3.40	6.17	1.25	0.53	0.32	0.51	0.30
In.	3.23	5.12	2.17	2.62	0.66	3.92	6.88	1.44	0.59	0.37	0.59	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.8	26.6	29.5	28.3	30.7	44.1	41.6	29.5	17.7	9.72	8.54	9.50
Max	94.0	100	88.8	104	76.2	113	115	105	82.7	45.4	37.9	57.3
(WY)	(2006)	(1978)	(1984)	(1979)	(1970)	(1983)	(1983)	(1989)	(1972)	(1984)	(1990)	(1971)
Min	1.94	2.31	5.72	2.02	7.68	9.75	8.14	12.5	3.92	1.31	0.90	0.68
(WY)	(1981)	(1965)	(1981)	(1981)	(1980)	(2006)	(1985)	(1965)	(1991)	(1977)	(1993)	(1980)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1958 - 2007	
Annual total	10,755.1		9,233.4			
Annual mean	29.5		25.3		24.3	
Highest annual mean					41.4	1984
Lowest annual mean					11.2	1985[a]
Highest daily mean	223	Nov 9	651	Apr 16	1,040	Nov 8, 1977
Lowest daily mean	1.6	Aug 24	1.6	Jul 3, 10	[b]0.12	Oct 21, 1970[a]
Annual seven-day minimum	1.8	Aug 18	2.3	Aug 1	0.36	Sep 30, 2005[a]
Maximum peak flow			915	Apr 16	[c]1,840	Nov 8, 1977
Maximum peak stage			7.00	Apr 16	9.91	Nov 8, 1977
Instantaneous low flow			1.2	Jul 10	0.05	Oct 20, 1970[a]
Annual runoff (cfsm)	2.40		2.06		1.97	
Annual runoff (inches)	32.53		27.93		26.80	
10 percent exceeds	63		49		53	
50 percent exceeds	19		16		14	
90 percent exceeds	5.7		2.8		2.3	

[a] No minimum data recorded from October 1995 to July 2005.
[b] Result of temporary pumping from gage pool.
[c] From rating curve extended above 850 ft³/s on basis of contracted-opening measurement at gage height 9.91 ft.