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, 2.5 mi northeast of Suffern, and 4.8 mi upstream from mouth.

DRAINAGE AREA.--12.3 mi^2.

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. WRD US-2011: 2001(M), 2005(M), 2006(M), 2007(M), 2008(M), 2010(M).

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft above NGVD of 1929. Prior to Nov 18, 1976, water-stage recorder at site on right bank, 13 ft downstream, at present datum.

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

REVISIONS.--Annual peak discharges for water years 2001, 2005, 2006, 2007, 2008, and 2010 have been revised as shown in the following table. These values supersede previously published peaks in their respective annual water data reports.

Water Year	Date	Gage height (ft)	Discharge (ft^3/s)
2001	Jun 23, 2001	5.88	809
2005	Apr 3, 2005	5.99	894
2006	Oct 8, 2005	7.11	1,590
2007	Apr 16, 2007	7.00	1,510
2008	Dec 24, 2007	5.54	670
2010	Mar 14, 2010	7.23	1,670

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	0945	344	4.30
Dec 1	1830	477	4.87
Mar 7	0215	1,800	7.44
Mar 11	0500	1,730	7.32
Apr 17	0215	1,750	7.35
May 19	0430	484	4.95
Jun 23	1500	1,410	6.85
Aug 28	1145	*3,700	*10.66
Sep 7	0115	360	4.67
Sep 8	0545	720	5.65
Sep 29	0900	328	4.55

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01387450, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01387450.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	108	3.7	185	11	9.7	98	31	45	16	26	5.4	52
2	38	2.8	165	15	13	73	33	e44	14	27	3.4	40
3	14	2.2	69	19	13	59	27	e38	12	43	3.3	33
4	8.1	7.2	46	16	e11	48	25	e36	11	35	7.1	29
5	7.3	15	36	15	11	46	26	e29	10	e18	4.0	25
6	5.9	9.9	29	14	15	216	25	e27	9.5	13	3.5	89
7	4.5	9.8	24	13	15	931	27	e21	9.2	11	13	241
8	2.9	7.2	20	13	19	220	25	e18	8.6	48	14	377
9	3.9	7.5	17	12	e16	117	23	e17	8.7	e81	28	167
10	1.9	6.6	15	e11	15	136	22	e18	11	e28	22	92
11	1.7	6.0	14	10	e14	892	21	e14	11	21	13	62
12	2.7	5.6	67	11	13	255	25	e10	8.9	15	8.3	49
13	2.2	5.2	88	e10	13	143	62	e13	8.6	14	6.6	40
14	2.8	5.2	54	e10	14	102	43	e16	7.7	13	38	33
15	11	5.5	39	e9.0	18	82	34	e44	8.2	29	134	30
16	7.2	5.8	32	9.4	16	87	94	36	6.8	18	81	26
17	5.0	39	27	9.0	16	72	777	91	42	10	43	22
18	4.4	28	23	12	29	58	194	153	32	7.9	27	19
19	4.8	18	21	19	51	45	116	341	14	7.0	21	16
20	3.7	17	19	19	39	40	94	148	12	14	19	15
21	3.5	16	17	18	37	48	73	99	9.0	8.6	19	14
22	2.3	14	15	e15	31	49	60	e68	18	4.1	25	16
23	3.7	14	15	e12	27	45	88	e50	347	4.6	18	18
24	2.1	12	13	11	25	48	76	51	176	7.6	14	25
25	2.6	11	13	11	101	43	60	40	86	5.7	13	18
26	3.0	14	13	11	94	40	48	33	63	8.2	13	15
27	6.3	10	e15	13	66	37	42	28	e43	5.5	13	14
28	3.7	14	13	11	93	34	75	23	e34	4.3	1,540	19
29	4.8	10	12	10	---	32	72	20	e37	4.1	340	146
30	2.3	12	11	9.7	---	27	50	25	30	4.2	126	78
31	3.8	---	11	e9.5	---	25	---	20	---	3.6	74	---
Total	278.1	334.2	1,138	388.6	834.7	4,148	2,368	1,616	1,104.2	539.4	2,689.6	1,820
Mean	8.97	11.1	36.7	12.5	29.8	134	78.9	52.1	36.8	17.4	86.8	60.7
Max	108	39	185	19	101	931	777	341	347	81	1,540	377
Min	1.7	2.2	11	9.0	9.7	25	21	10	6.8	3.6	3.3	14
Cfsm	0.73	0.91	2.98	1.02	2.42	10.9	6.42	4.24	2.99	1.41	7.05	4.93
In.	0.84	1.01	3.44	1.18	2.52	12.55	7.16	4.89	3.34	1.63	8.13	5.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.3	25.6	30.9	27.8	31.1	47.9	41.4	29.4	18.0	9.73	10.3	10.4
Max	94.0	100	88.8	104	76.2	134	115	105	82.7	45.4	86.8	60.7
(WY)	(2006)	(1978)	(1984)	(1979)	(1970)	(2011)	(1983)	(1989)	(1972)	(1984)	(2011)	(2011)
Min	1.94	2.31	5.72	2.02	7.68	9.75	8.14	12.5	3.78	1.31	0.90	0.68
(WY)	(1981)	(1965)	(1981)	(1981)	(1980)	(2006)	(1985)	(1965)	(2010)	(1977)	(1993)	(1980)

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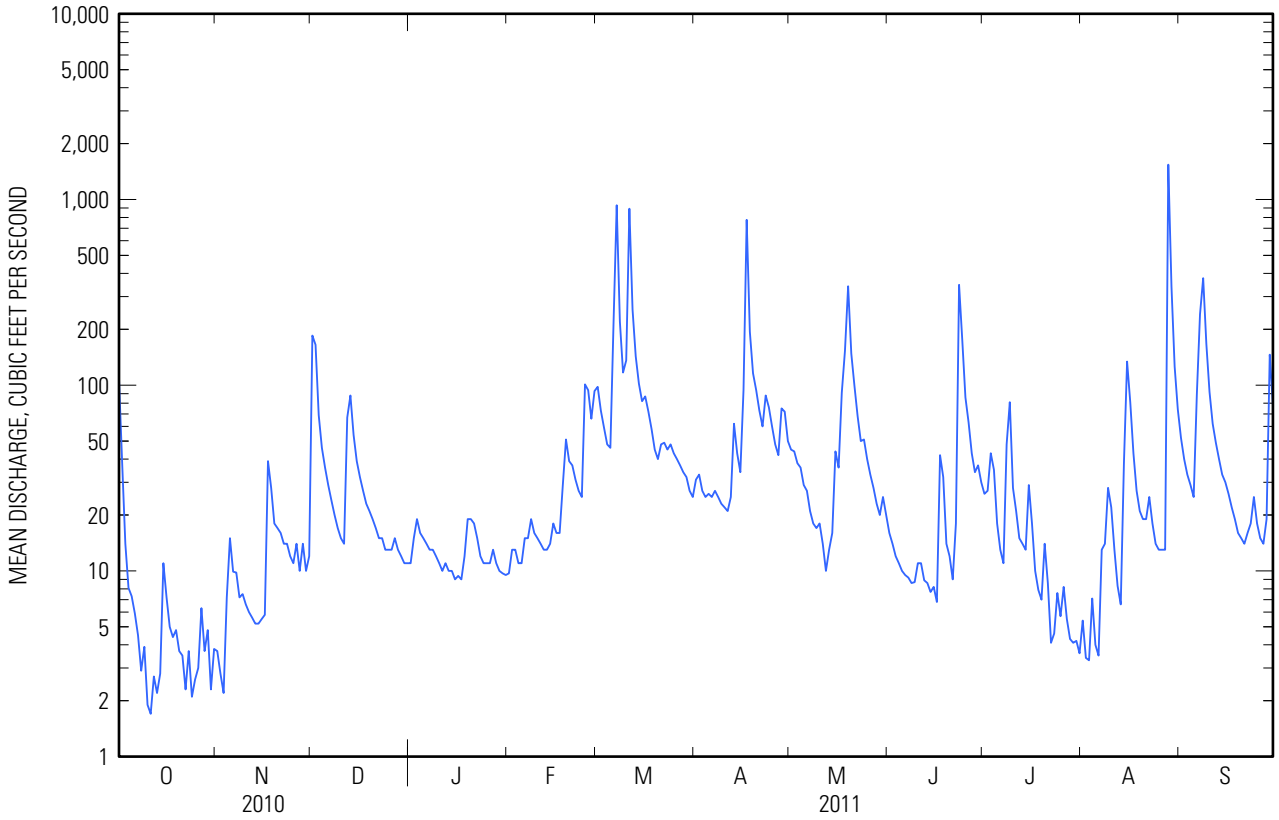
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1958 - 2011	
Annual total	9,530.56		17,258.8			
Annual mean	26.1		47.3		24.8	
Highest annual mean					47.3	2011
Lowest annual mean					11.2	1985
Highest daily mean	739	Mar 14	1,540	Aug 28	1,540	Aug 28, 2011
Lowest daily mean	0.60	Aug 11	1.7	Oct 11	[a]0.12	Oct 21, 1970
Annual seven-day minimum	0.63	Aug 9	2.6	Oct 8	0.36	Sep 30, 2005
Maximum peak flow			[b]3,700	Aug 28	[b]3,700	Aug 28, 2011
Maximum peak stage			10.66	Aug 28	10.66	Aug 28, 2011
Instantaneous low flow			1.1	Oct 22	[a]0.05	Oct 20, 1970
Annual runoff (cfsm)	2.12		3.84		2.02	
Annual runoff (inches)	28.82		52.20		27.40	
10 percent exceeds	62		91		53	
50 percent exceeds	12		18		15	
90 percent exceeds	1.2		5.2		2.3	

[a] Result of temporary pumping from gage pool.
[b] From rating curve extended above 2,110 ft³/s on basis of contracted-opening and flow-over-road computations.