Water-Data Report 2012

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. Occasional regulation at low flow due to unknown source. Pumping from wells upstream of gage may affect flow past gage. Satellite telemetry at station.

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)
Dec 8	0230	*483	*5.06

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01387450, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01387450.2012.pdf

01387450 MAHWAH RIVER NEAR SUFFERN, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

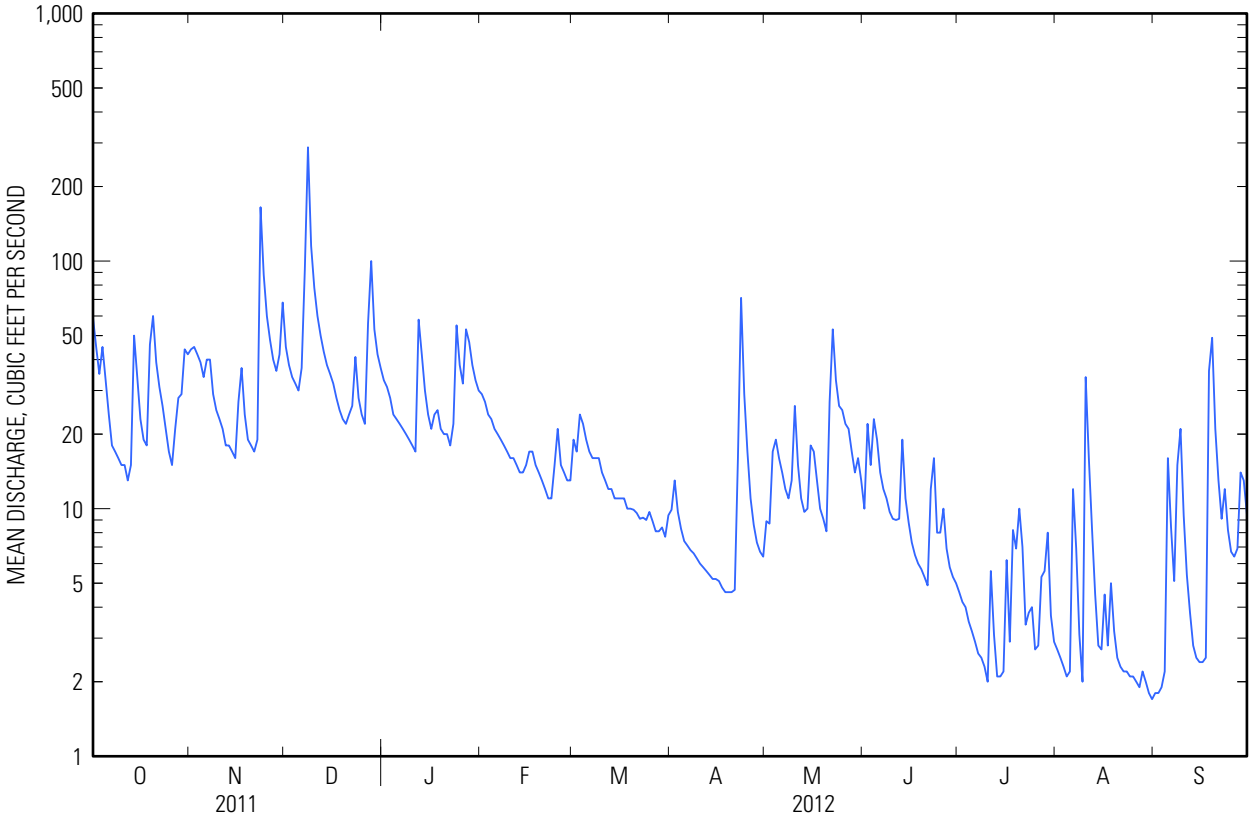
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	59	44	45	33	29	19	9.9	8.9	10	4.6	2.7	1.8
2	45	45	38	31	27	17	13	8.7	22	4.2	2.5	1.8
3	35	42	34	28	24	24	9.7	17	15	4.0	2.3	1.9
4	45	39	32	24	23	22	8.3	19	23	3.5	2.1	2.2
5	33	34	30	23	21	19	7.4	16	19	3.2	2.2	16
6	24	40	37	22	20	17	7.1	14	14	2.9	12	8.4
7	18	40	92	21	19	16	6.8	12	12	2.6	6.9	5.1
8	17	29	288	20	18	16	6.6	11	11	2.5	3.1	15
9	16	25	115	19	17	16	6.3	13	9.7	2.3	2.0	21
10	15	23	78	18	16	14	6.0	26	9.1	2.0	34	9.4
11	15	21	60	17	16	13	5.8	15	9.0	5.6	16	5.4
12	13	18	50	58	15	12	5.6	11	9.1	3.1	8.3	3.8
13	15	18	43	42	14	12	5.4	9.7	19	2.1	4.5	2.8
14	50	17	38	30	14	11	5.2	10	11	2.1	2.8	2.5
15	34	16	35	24	15	11	5.2	18	8.8	2.2	2.7	2.4
16	23	27	32	21	17	11	5.1	17	7.3	6.2	4.5	2.4
17	19	37	28	24	17	11	4.8	13	6.5	2.9	2.8	2.5
18	18	24	25	25	15	10	4.6	10	6.0	8.2	5.0	36
19	46	19	23	21	14	10	4.6	9.1	5.7	6.9	3.2	49
20	60	18	22	20	13	9.9	4.6	8.1	5.3	10	2.5	21
21	39	17	24	20	12	9.6	4.7	27	4.9	7.0	2.3	13
22	31	19	26	18	11	9.1	16	53	12	3.4	2.2	9.1
23	26	165	41	22	11	9.2	71	33	16	3.8	2.2	12
24	21	88	28	55	15	9.0	29	26	8.0	4.0	2.1	8.2
25	17	60	24	38	21	9.7	17	25	8.0	2.7	2.1	6.7
26	15	48	22	32	15	8.9	11	22	10	2.8	2.0	6.4
27	21	40	56	53	14	8.1	8.6	21	6.9	5.3	1.9	6.9
28	28	36	100	47	13	8.1	7.3	17	5.8	5.6	2.2	14
29	29	42	53	38	13	8.4	6.7	14	5.3	8.0	2.0	13
30	44	68	42	33	---	7.7	6.4	16	5.0	3.7	1.8	9.5
31	42	---	37	30	---	9.4	---	13	---	2.9	1.7	---
Total	913	1,159	1,598	907	489	388.1	309.7	533.5	314.4	130.3	144.6	309.2
Mean	29.5	38.6	51.5	29.3	16.9	12.5	10.3	17.2	10.5	4.20	4.66	10.3
Max	60	165	288	58	29	24	71	53	23	10	34	49
Min	13	16	22	17	11	7.7	4.6	8.1	4.9	2.0	1.7	1.8
Cfsm	2.39	3.14	4.19	2.38	1.37	1.02	0.84	1.40	0.85	0.34	0.38	0.84
In.	2.76	3.51	4.83	2.74	1.48	1.17	0.94	1.61	0.95	0.39	0.44	0.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.6	25.9	31.4	27.9	30.7	47.1	40.7	29.1	17.8	9.61	10.2	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)

01387450 MAHWAH RIVER NEAR SUFFERN, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1958 - 2012	
Annual total	19,178.5		7,195.8			
Annual mean	52.5		19.7		24.7	
Highest annual mean					47.3	2011
Lowest annual mean					11.2	1985
Highest daily mean	1,540	Aug 28	288	Dec 8	1,540	Aug 28, 2011
Lowest daily mean	3.3	Aug 3	1.7	Aug 31	[a]0.12	Oct 21, 1970
Annual seven-day minimum	4.0	Jul 28	1.9	Aug 27	0.36	Sep 30, 2005
Maximum peak flow			483	Dec 8	[b]3,700	Aug 28, 2011
Maximum peak stage			5.06	Dec 8	10.66	Aug 28, 2011
Instantaneous low flow			1.7	Aug 31, Sep 1	[a]0.05	Oct 20, 1970
Annual runoff (cfsm)	4.27		1.60		2.01	
Annual runoff (inches)	58.00		21.76		27.27	
10 percent exceeds	92		42		53	
50 percent exceeds	26		15		15	
90 percent exceeds	9.7		2.8		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.