Water-Data Report 2011

01387000 WANAQUE RIVER AT WANAQUE, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°02′39″, long 74°17′35″ referenced to North American Datum of 1983, Wanaque Borough, Passaic County, NJ, Hydrologic Unit 02030103, on left bank 750 ft downstream from Raymond Dam in Wanaque, and 50 ft upstream from bridge on County Route 511 (Ringwood Avenue).

DRAINAGE AREA.--90.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record stage only, December 1903 to December 1905. Continuous-record gaging station, September 1912 to April 1915, May 1919 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 210.00 ft above NGVD of 1929 (levels from New Jersey Geological Survey benchmark). December 16, 1903 to December 31, 1905, non-recording gage on highway bridge at site 50 ft downstream at different datum. September 15, 1912 to April 1, 1922, non-recording gage at site 200 ft downstream from present concrete control at different datum. April 1, 1922 to March 14, 1931, water-stage recorder at site 400 ft downstream from present concrete control at present datum.

COOPERATION.--Gage-height record collected in cooperation with North Jersey District Water Supply Commission.

REMARKS.--Records good, except for estimated daily discharges which are fair. Flow regulated by Greenwood Lake 11 mi above station (see 01383000), since October 1987 by Monksville Reservoir just upstream from Wanaque Reservoir (see 01384002), and since 1928 by Wanaque Reservoir (see 01386990). North Jersey District Water Supply Commission diverts water for municipal supply from Wanaque Reservoir. Water is diverted to Wanaque Reservoir from Posts Brook near Wanaque (see 01387020), from Ramapo River at Pompton Lakes (see 01387990), and from Pompton River at Two Bridges (see 01388980). Water diverted into basin above gage from Upper Greenwood Lake (Hudson River basin) by North Jersey District Water Supply Commission since 1968. Several measurements of water temperature were made during the year. Satellite telemetry at station.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01387000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01387000.2011.pdf

01387000 WANAQUE RIVER AT WANAQUE, NJ—Continued

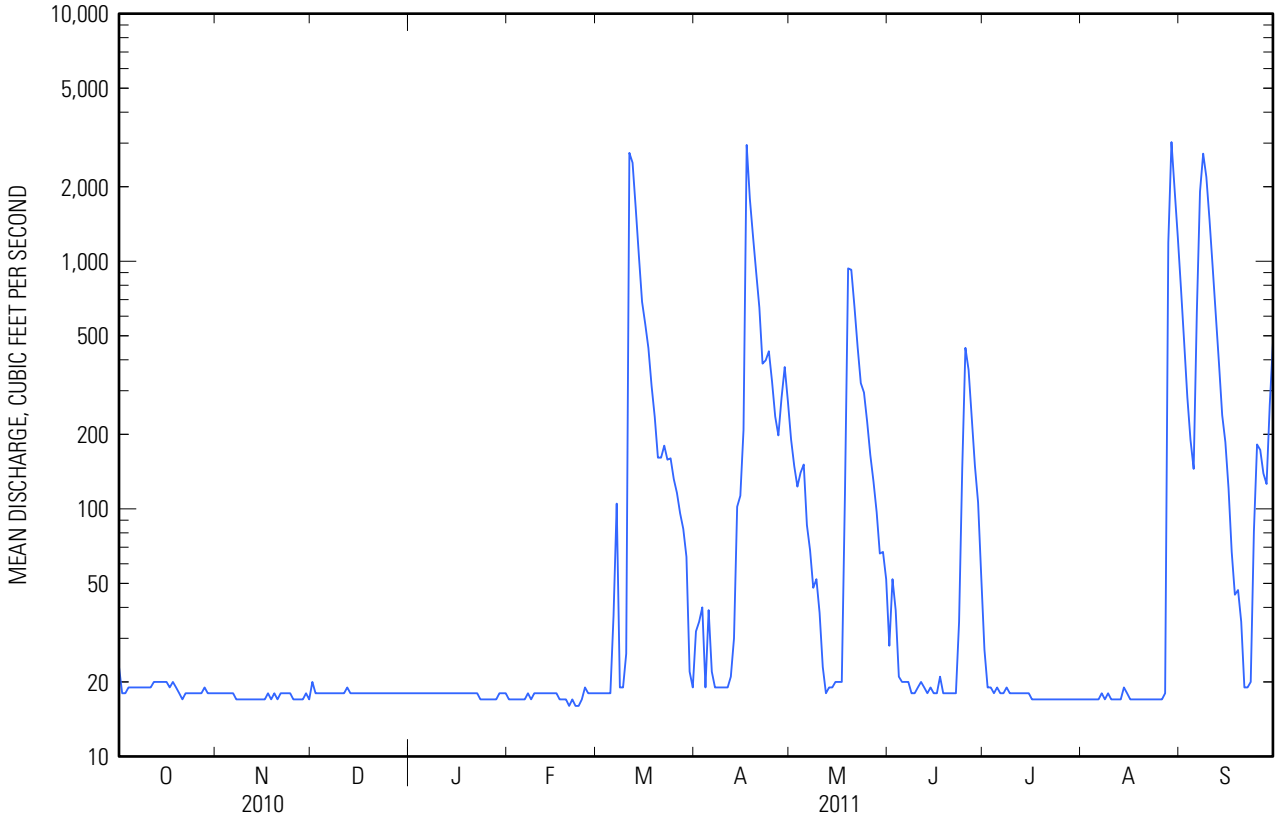
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23	18	20	18	e17	18	32	191	28	27	17	775
2	18	18	18	18	e17	18	35	149	52	19	17	471
3	18	18	18	18	e17	18	40	123	39	19	17	283
4	19	18	18	18	e17	18	19	140	21	18	17	190
5	19	18	18	18	e17	18	39	151	20	19	17	145
6	19	18	18	18	e17	37	22	86	20	18	17	623
7	19	17	18	18	e18	105	19	68	20	18	18	1,910
8	19	17	18	18	e17	19	19	48	18	19	17	2,720
9	19	17	18	18	e18	19	19	52	18	18	18	2,190
10	19	17	18	18	e18	26	19	38	19	18	17	1,470
11	19	17	18	18	e18	2,740	19	23	20	18	17	945
12	20	17	19	18	e18	2,500	21	18	19	18	17	602
13	20	17	18	18	e18	1,640	30	19	18	18	17	384
14	20	17	18	18	e18	1,050	102	19	19	18	19	239
15	20	17	18	18	e18	686	113	20	18	18	18	186
16	20	17	18	18	18	558	208	20	18	17	17	121
17	19	18	18	18	17	446	e2,950	20	21	17	17	67
18	20	17	18	18	17	314	e1,790	115	18	17	17	45
19	19	18	18	18	17	235	1,260	936	18	17	17	47
20	18	17	18	18	16	161	901	924	18	17	17	35
21	17	18	18	18	17	161	650	655	18	17	17	19
22	18	18	18	18	16	180	386	450	18	17	17	19
23	18	18	18	e17	16	158	398	322	35	17	17	20
24	18	18	18	e17	17	160	433	295	146	17	17	81
25	18	17	18	e17	19	132	327	225	447	17	17	182
26	18	17	18	e17	18	116	236	165	364	17	17	173
27	18	17	18	e17	18	96	198	129	233	17	18	139
28	19	17	18	e17	18	83	281	97	149	17	1,190	126
29	18	18	18	e18	---	64	374	66	106	17	3,030	263
30	18	17	18	e18	---	22	272	67	53	17	1,940	466
31	18	---	18	e18	---	19	---	52	---	17	1,250	---
Total	585	523	561	552	487	11,817	11,212	5,683	2,011	555	7,875	14,936
Mean	18.9	17.4	18.1	17.8	17.4	381	374	183	67.0	17.9	254	498
Max	23	18	20	18	19	2,740	2,950	936	447	27	3,030	2,720
Min	17	17	18	17	16	18	19	18	18	17	17	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33.6	43.8	63.7	68.3	69.6	156	175	92.3	57.8	36.6	29.3	37.4
Max	258	435	434	453	471	758	806	545	416	247	258	498
(WY)	(1956)	(1928)	(1921)	(1915)	(1915)	(1920)	(1984)	(1989)	(1972)	(1938)	(1927)	(2011)
Min	1.82	1.70	1.48	0.76	2.05	1.91	1.54	1.72	2.17	1.73	1.53	1.51
(WY)	(1966)	(1966)	(1950)	(1950)	(1966)	(1966)	(1966)	(1966)	(1966)	(1965)	(1965)	(1965)

01387000 WANAQUE RIVER AT WANAQUE, NJ—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1912 - 2011	
Annual total	28,221		56,797			
Annual mean	77.3		156		70.6	
Highest annual mean					231	1920
Lowest annual mean					1.93	1966
Highest daily mean	2,580	Mar 15	3,030	Aug 29	5,470	Apr 6, 1984
Lowest daily mean	15	Jan 12	16	Feb 20, 22, 23	0.06	Oct 11, 1984
Annual seven-day minimum	16	Jan 6	17	Feb 17	0.50	Dec 14, 1949
Maximum peak flow			3,740	Mar 11	10,500	Apr 5, 1984
Maximum peak stage			8.04	Mar 11	10.82	Apr 5, 1984
Instantaneous low flow			15	May 12		
10 percent exceeds	50		368		183	
50 percent exceeds	18		18		18	
90 percent exceeds	17		17		16