

01387000 WANAQUE RIVER AT WANAQUE, NJ

LOCATION.--Lat 41°02'39", long 74°17'35", Passaic County, 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 mi², considered as 94 mi² Oct. 1, 1928 to Sept. 30, 1934.

PERIOD OF RECORD.--December 1903 to December 1905 (gage heights only), 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 bench mark). Dec. 16, 1903, to Dec. 31, 1905, nonrecording gage on highway bridge at site 50 ft downstream at different datum. Sept. 15, 1912, to Apr. 1, 1922, nonrecording gage at site 200 ft downstream from present concrete control at different datum. Apr. 1, 1922 to Mar. 14, 1931, water-stage recorder at site 400 ft downstream from present concrete control at present datum.

REMARKS.--Records good, except for estimated daily discharges which are fair. Flow regulated by Greenwood Lake 11 mi above station, since October 1987 by Monksville Reservoir just upstream from Wanaque Reservoir, and since 1928 by Wanaque Reservoir (see Passaic River basin, reservoirs in). North Jersey District Water Supply Commission diverts water for municipal supply from Wanaque Reservoir. Water is diverted to Wanaque Reservoir from Posts Brook at Wanaque and from Ramapo River at Pompton Lakes (see Passaic River basin, diversions). Water diverted into basin above gage from Upper Greenwood Lake (Hudson River basin) by North Jersey District Water Supply Commission since 1968. National Weather Service telephone telemetry and rain gage and U. S. Geological Survey satellite gage-height telemetry at station. Several measurements of water temperature were made during the year.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	18	65	27	29	570	43	17	16	19	17
2	17	15	17	36	27	29	1,050	39	17	16	19	17
3	17	16	17	32	27	27	2,920	47	17	16	19	17
4	17	16	17	112	27	27	1,880	47	17	16	19	17
5	17	16	17	154	27	27	1,180	35	17	16	19	17
6	17	16	17	207	27	27	798	23	17	16	19	17
7	17	16	17	205	27	27	567	63	17	16	19	17
8	17	15	34	241	27	27	490	42	17	18	19	16
9	17	15	122	322	27	28	346	19	17	17	19	18
10	17	16	283	278	27	27	251	17	17	16	19	17
11	17	16	401	253	27	27	200	17	17	16	19	17
12	17	16	360	273	27	27	153	24	17	16	19	17
13	16	16	302	247	27	27	124	18	17	16	18	17
14	16	16	262	643	29	21	95	17	17	16	19	19
15	17	19	190	1,030	29	16	67	17	17	16	19	19
16	16	18	137	773	28	16	44	17	17	17	19	17
17	16	17	140	569	27	17	34	17	17	17	18	17
18	16	17	110	e400	53	16	26	17	17	17	18	17
19	17	17	e100	e283	120	17	17	17	17	16	19	17
20	16	17	e70	e230	138	17	17	17	17	16	19	17
21	16	17	29	e160	177	17	36	17	17	16	18	17
22	16	17	27	e120	151	17	16	17	17	16	18	17
23	16	17	39	e100	124	17	16	17	17	16	18	17
24	16	17	172	e80	e95	17	16	17	17	16	18	17
25	16	17	205	e70	e70	17	22	18	16	16	18	17
26	16	17	193	e50	53	17	21	17	16	16	18	17
27	16	17	e150	36	36	17	17	17	16	20	18	17
28	16	20	e90	27	28	42	27	17	17	21	18	17
29	16	17	e70	27	---	1,040	17	17	17	19	18	17
30	16	17	72	27	---	1,070	17	17	17	19	18	17
31	16	---	56	27	---	766	---	17	---	19	18	---
TOTAL	509	499	3,734	7,077	1,509	3,513	11,034	741	507	520	575	514
MEAN	16.4	16.6	120	228	53.9	113	368	23.9	16.9	16.8	18.5	17.1
MAX	17	20	401	1,030	177	1,070	2,920	63	17	21	19	19
MIN	16	15	17	27	27	16	16	17	16	16	18	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2005, BY WATER YEAR (WY)

MEAN	34.6	45.1	66.0	68.3	72.4	153	177	95.3	60.0	37.8	27.5	33.3
MAX	258	435	434	453	471	758	806	545	416	247	258	477
(WY)	(1956)	(1928)	(1921)	(1915)	(1915)	(1920)	(1984)	(1989)	(1972)	(1938)	(1927)	(1927)
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1912 - 2005	
ANNUAL TOTAL	12,677		30,732		71.0	
ANNUAL MEAN	34.6		84.2		231	
HIGHEST ANNUAL MEAN					1.93	
LOWEST ANNUAL MEAN					5,470	
HIGHEST DAILY MEAN	401	Dec 11	2,920	Apr 3	1920	1966
LOWEST DAILY MEAN	14	Aug 29	15	Nov 2,8,9	Apr 6, 1984	
ANNUAL SEVEN-DAY MINIMUM	15	Aug 23	16	Nov 2	0.06	Oct 11, 1984
MAXIMUM PEAK FLOW			3,180	Apr 3	0.50	Dec 14, 1949
MAXIMUM PEAK STAGE			7.59	Apr 3	10,500	Apr 5, 1984
INSTANTANEOUS LOW FLOW			8.1	Sep 9	10.82	Apr 5, 1984
10 PERCENT EXCEEDS	105		191		187	
50 PERCENT EXCEEDS	17		17		18	
90 PERCENT EXCEEDS	15		16		15	

e Estimated

