01384500 RINGWOOD CREEK NEAR WANAQUE, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°07′38″, long 74°15′57″ referenced to North American Datum of 1983, Ringwood Borough, Passaic County, NJ, Hydrologic Unit 02030103, on right bank 500 ft upstream from Wanaque Reservoir, 0.7 mi downstream from Ringwood Mill Pond dam, and 6.5 mi north of Wanaque.

DRAINAGE AREA.--17.9 mi², (revised)

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1934 to September 1978, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WDR NJ-82-1: 1935-77(P). WDR US-09-1: 1949, 1957, 1961, 1972(M), 1973(M), 1974. WDR US-10-01: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 292.67 ft above NGVD of 1929 (levels by New Jersey Geological Survey). Prior to Sep 30, 1978, at datum 10.0 ft higher.

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

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Records given herein include flow over spillway and through ports in dam when open or through waste gate in dam. No flow through ports this year. Currently there is leakage through the waste gate and it is included in flow. Flow occasionally regulated by Ringwood Mill Pond, Sterling, and Sterling Forest Lakes, and several smaller lakes above station. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 230 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec 27	0530	283	11.80
Mar 13	2045	*1,490	*13.37
Mar 23	0230	329	11.79
Mar 29	0645	329	11.79
Mar 30	1800	558	12.26

01384500 RINGWOOD CREEK NEAR WANAQUE, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.0	21	14	69	49	34	220	35	7.1	1.9	1.2	3.1
2	4.7	19	15	e61	43	36	159	32	6.7	1.8	1.2	2.8
3	6.2	16	108	e54	41	39	124	43	5.9	1.6	1.2	2.9
4	6.9	15	78	e50	37	44	104	36	5.7	1.6	0.98	2.4
5	5.6	14	70	e43	34	47	85	31	5.4	1.5	0.94	2.0
6	4.8	14	70	e38	31	47	73	25	5.9	1.3	0.86	1.7
7	7.2	13	62	35	e28	52	63	22	4.8	1.1	0.65	1.5
8	6.2	12	56	33	e26	65	57	21	3.6	1.1	0.68	1.3
9	5.8	12	104	e29	24	81	58	18	4.6	1.6	0.58	1.1
10	6.4	11	106	e27	25	90	48	17	7.4	10	0.60	1.1
11	5.5	11	83	e25	26	100	40	16	5.8	5.5	0.68	1.0
12	5.1	11	70	24	23	124	37	18	5.0	2.9	1.1	1.0
13	4.6	12	82	22	20	532	34	18	5.3	3.1	0.93	1.3
14	3.9	16	105	21	20	982	30	18	6.1	4.1	0.66	1.6
15	4.8	19	93	20	19	613	28	18	5.7	4.0	0.70	1.3
16	6.0	16	86	21	20	363	25	17	4.3	2.9	2.1	1.4
17	5.5	14	74	22	19	251	26	15	6.0	2.4	1.3	1.8
18	5.3	13	63	30	18	186	25	14	4.4	2.0	1.2	1.5
19	5.2	12	58	28	18	144	23	17	3.9	3.0	1.1	1.3
20	4.8	29	56	25	18	115	20	18	3.6	3.4	0.96	1.2
21	4.2	25	50	e21	18	94	19	18	3.7	2.5	0.80	1.1
22	3.8	20	46	19	18	100	18	18	3.6	3.3	10	1.1
23	3.6	19	40	19	22	258	17	16	4.4	2.9	29	1.3
24	13	21	37	19	38	160	16	15	3.9	3.6	16	1.5
25	25	18	35	47	e51	122	36	12	3.4	3.0	13	1.3
26	14	18	64	111	e55	112	51	11	3.1	2.6	11	1.1
27	12	17	222	112	43	90	70	10	3.0	2.2	7.6	1.3
28	46	16	133	92	37	76	50	9.3	3.1	2.0	6.1	2.4
29	40	15	100	73	---	257	44	8.1	3.0	1.9	4.9	2.1
30	25	15	80	e63	---	367	37	7.4	2.2	1.7	4.3	12
31	21	---	75	e56	---	350	---	7.4	---	1.3	3.7	---
Total	317.1	484	2,335	1,309	821	5,931	1,637	581.2	140.6	83.8	126.02	58.5
Mean	10.2	16.1	75.3	42.2	29.3	191	54.6	18.7	4.69	2.70	4.07	1.95
Max	46	29	222	112	55	982	220	43	7.4	10	29	12
Min	3.6	11	14	19	18	34	16	7.4	2.2	1.1	0.58	1.0
Cfsm	0.57	0.90	4.21	2.36	1.64	10.7	3.05	1.05	0.26	0.15	0.23	0.11
In.	0.66	1.01	4.85	2.72	1.71	12.33	3.40	1.21	0.29	0.17	0.26	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	18.4	32.5	45.0	42.5	40.7	66.9	57.9	38.0	23.8	13.7	12.7	12.6
Max	149	89.0	131	149	109	191	123	131	121	86.1	107	62.4
(WY)	(2006)	(2007)	(2004)	(1979)	(1970)	(2010)	(1940)	(1989)	(1972)	(1945)	(1955)	(1999)
Min	1.07	1.42	2.71	2.82	3.93	14.1	18.3	10.9	3.78	1.31	0.70	0.28
(WY)	(1945)	(2002)	(1999)	(2002)	(2002)	(2002)	(1966)	(1941)	(1957)	(1966)	(1966)	(1964)

01384500 RINGWOOD CREEK NEAR WANAQUE, NJ—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1935 - 2010	
Annual total	11,193.6		13,824.22			
Annual mean	30.7		37.9		33.7	
Highest annual mean					54.4	1952
Lowest annual mean					11.8	2002
Highest daily mean	222	Dec 27	982	Mar 14	982	Mar 14, 2010
Lowest daily mean	3.6	Oct 23	0.58	Aug 9	0.00	Sep 11, 1963
Annual seven-day minimum	4.6	Oct 17	0.71	Aug 5	0.16	Sep 5, 1944
Maximum peak flow			1,490	Mar 13	2,300	Sep 16, 1999
Maximum peak stage			13.37	Mar 13	13.92	Sep 16, 1999
Instantaneous low flow			0.47	Aug 7, 9, 10	[a]0.00	Sep 11, 1963
Annual runoff (cfsm)	1.71		2.12		1.88	
Annual runoff (inches)	23.26		28.73		25.55	
10 percent exceeds	62		88		76	
50 percent exceeds	23		17		21	
90 percent exceeds	7.7		1.3		2.1	

[a] No flow part of day in many years just after waste gate was closed and water was below intake to ports.