

01377370 PASCACK BROOK AT PARK RIDGE, NJ

HACKENSACK RIVER BASIN

LOCATION.--Lat 41°02'12", long 74°02'21" referenced to North American Datum of 1983, Park Ridge Borough, Bergen County, NJ, Hydrologic Unit 02030103, at right end of Mill Pond Dam at the western outflow of Silver Lake (Electric Lake), 0.4 mi east of Park Ridge, and 0.5 mi upstream of Woodcliff Lake.

DRAINAGE AREA.--13.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 2004 to current year. No record collected from Sep 10, 2009 through May 17, 2010 due to lake being drawn down for dam maintenance.

GAGE.--Water-stage and precipitation recorder and concrete dam. Datum of gage is 129.9 above NGVD of 1929.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1945 reached a discharge of approximately 1,300 ft³/s (as reported by New Jersey State Water Policy Commission; dam failed, discharge may have been greater). Flood of September 16, 1999 reached a peak discharge of 5,730 ft³/s (based on slope-area computation upstream of Grand Avenue, 0.5 mi upstream from gage, adjusted for change in drainage area).

PEAK DISCHARGES FOR CURRENT YEAR (May 18 – Sep 30, 2010).--Peak discharges greater than base discharge of 800 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug 22	2000	*1,880	*5.60
Sep 30	1045	823	4.60

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	11	5.5	4.5	5.3
2	---	---	---	---	---	---	---	---	9.9	5.6	4.5	5.5
3	---	---	---	---	---	---	---	---	9.9	5.6	4.1	5.0
4	---	---	---	---	---	---	---	---	10	5.8	4.4	4.8
5	---	---	---	---	---	---	---	---	9.4	5.9	6.2	4.5
6	---	---	---	---	---	---	---	---	10	6.0	4.5	4.3
7	---	---	---	---	---	---	---	---	9.9	5.9	3.7	3.8
8	---	---	---	---	---	---	---	---	8.3	5.8	3.9	3.7
9	---	---	---	---	---	---	---	---	21	5.8	3.8	4.0
10	---	---	---	---	---	---	---	---	21	6.1	3.9	4.0
11	---	---	---	---	---	---	---	---	8.3	6.1	4.1	3.8
12	---	---	---	---	---	---	---	---	8.0	5.8	4.3	3.9
13	---	---	---	---	---	---	---	---	8.4	12	4.0	5.2
14	---	---	---	---	---	---	---	---	9.6	25	4.0	5.7
15	---	---	---	---	---	---	---	---	8.7	8.6	4.3	4.1
16	---	---	---	---	---	---	---	---	7.9	6.2	21	12
17	---	---	---	---	---	---	---	---	13	5.7	8.0	9.1
18	---	---	---	---	---	---	---	---	66	7.6	5.3	4.1
19	---	---	---	---	---	---	---	---	32	6.4	37	3.8
20	---	---	---	---	---	---	---	---	15	6.2	15	3.4
21	---	---	---	---	---	---	---	---	13	6.1	14	4.3
22	---	---	---	---	---	---	---	---	12	12	19	410
23	---	---	---	---	---	---	---	---	11	21	7.8	135
24	---	---	---	---	---	---	---	---	11	7.3	11	16
25	---	---	---	---	---	---	---	---	12	6.6	19	16
26	---	---	---	---	---	---	---	---	12	6.5	8.5	11
27	---	---	---	---	---	---	---	---	13	6.1	4.4	6.4
28	---	---	---	---	---	---	---	---	12	7.1	4.1	5.3
29	---	---	---	---	---	---	---	---	12	8.3	5.1	5.0
30	---	---	---	---	---	---	---	---	11	5.9	4.4	4.7
31	---	---	---	---	---	---	---	---	11	---	4.3	5.0
Total	---	---	---	---	---	---	---	---	291.4	286.3	725.2	328.1
Mean	---	---	---	---	---	---	---	---	9.71	9.24	23.4	10.9
Max	---	---	---	---	---	---	---	---	21	37	410	164
Min	---	---	---	---	---	---	---	---	5.9	4.1	3.7	3.4
Cfsm	---	---	---	---	---	---	---	---	0.72	0.69	1.75	0.82
In.	---	---	---	---	---	---	---	---	0.81	0.79	2.01	0.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33.6	24.9	29.7	27.8	25.4	29.7	38.3	20.9	22.2	20.2	20.9	23.9
Max	80.7	40.4	39.7	47.2	49.7	48.6	96.9	23.2	36.1	35.5	30.0	73.2
(WY)	(2006)	(2007)	(2009)	(2006)	(2008)	(2007)	(2007)	(2006)	(2006)	(2004)	(2004)	(2004)
Min	16.3	15.3	19.7	16.5	13.4	12.1	18.2	14.3	9.71	9.24	6.65	7.02
(WY)	(2005)	(2008)	(2007)	(2009)	(2007)	(2009)	(2009)	(2005)	(2010)	(2010)	(2005)	(2005)

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SUMMARY STATISTICS

	May 18 – Sep 30, 2010		Water Years 2004 - 2010	
Annual mean			26.0	
Highest annual mean			30.0	2006
Lowest annual mean			21.7	2009
Highest daily mean	410	Aug 22	895	Apr 15, 2007
Lowest daily mean	3.4	Sep 20, 26	^a 3.0	Oct 17, 2007
Annual seven-day minimum			3.6	Sep 20, 2010
Maximum peak flow	1,880	Aug 22	2,450	Apr 16, 2007
Maximum peak stage	5.60	Aug 22	6.03	Apr 16, 2007
Instantaneous low flow	3.0	Many days	2.6	Sep 4, 2005
Annual runoff (cfsm)			1.94	
Annual runoff (inches)			26.32	
10 percent exceeds			41	
50 percent exceeds			14	
90 percent exceeds			7.5	

^a Estimated.

