

Water-Data Report 2009

01303000 MILL NECK CREEK AT MILL NECK, NY

Long Island Basin
Northern Long Island Subbasin

LOCATION.--Lat 40°53'15", long 73°33'51" referenced to North American Datum of 1927, Nassau County, NY, Hydrologic Unit 02030201, on right bank at Beaver Lake, 30 ft upstream from Feeks Lane (Cleft Road) Bridge in Mill Neck, and 1.5 mi southwest of Bayville.

DRAINAGE AREA.--8.58 mi², revised.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1937 to March 2000, May 2005 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and steel sheet-piling control. Datum of gage is 6.49 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Slight regulation by ponds above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 137 ft³/s, Sept. 12, 1960, gage height, 1.60 ft; maximum gage height, 4.85 ft, Sept. 21, 1938, result of hurricane wave; minimum discharge, 0.09 ft³/s, Dec. 11, 1941, result of freeze up; minimum gage height, 0.14 ft, Sept. 8, 1939, result of wind action.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 32 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 28	1130	42	0.80
Dec. 12	0500	*68	*1.04
Apr. 21	0200	37	0.73

Minimum discharge, 4.7 ft³/s, Oct. 22, gage height, 0.26 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10	7.4	13	13	8.4	7.6	8.4	7.2	6.2	7.7	12	7.0
2	9.1	7.1	9.0	9.9	8.7	10	9.3	8.3	6.3	8.8	11	6.7
3	7.1	7.1	7.8	8.5	9.4	13	11	8.3	6.5	8.5	10	6.7
4	6.5	7.1	7.6	8.0	9.2	9.8	11	9.3	11	7.4	8.6	6.7
5	8.2	7.3	7.3	8.2	8.5	8.8	8.8	8.6	11	6.7	9.2	6.7
6	7.7	9.6	7.2	8.2	8.0	9.1	10	11	11	6.7	11	6.3
7	6.7	8.5	7.5	17	8.1	9.3	11	15	8.3	7.0	8.5	6.3
8	6.3	8.6	8.9	15	9.1	9.1	9.2	11	7.0	21	7.4	6.3
9	6.7	9.1	7.9	10	9.2	9.4	8.3	15	11	12	7.3	6.3
10	6.3	7.6	8.2	9.0	8.9	9.1	8.1	11	10	8.9	7.7	6.2
11	6.3	7.1	13	9.7	8.9	8.7	11	8.1	8.3	7.9	7.2	10
12	6.3	7.1	53	8.8	9.2	7.9	11	7.3	16	8.6	7.1	14
13	6.3	7.5	20	8.5	8.5	7.8	9.0	6.9	11	7.7	7.1	10
14	6.3	8.0	12	8.3	8.0	8.0	8.5	7.0	9.0	7.1	7.1	8.3
15	6.3	12	9.7	8.4	8.0	8.0	9.2	7.2	9.5	7.0	7.0	7.4
16	6.3	12	9.5	8.0	7.9	8.0	8.5	7.2	9.2	7.0	6.7	7.1
17	6.0	8.7	12	7.6	7.7	8.4	8.0	7.1	7.7	7.1	6.7	7.1
18	5.5	7.5	11	8.0	8.7	8.3	7.8	6.9	16	7.0	6.5	7.0
19	5.6	7.1	10	8.7	11	8.2	7.6	6.7	17	6.5	6.3	6.6
20	5.7	7.1	11	8.5	8.9	8.5	10	6.6	11	6.3	6.3	6.7
21	5.8	7.1	11	8.0	8.1	8.0	27	6.3	15	9.0	6.7	6.7
22	5.4	7.2	11	8.0	8.5	7.8	13	6.3	15	9.5	20	6.9
23	5.5	9.0	8.9	8.0	8.4	7.5	11	6.1	11	8.7	13	7.1
24	5.7	8.1	10	8.0	8.9	7.6	8.4	6.3	9.4	16	9.0	7.1
25	6.9	13	15	8.0	8.1	7.7	7.5	6.2	8.6	9.8	7.6	6.5
26	11	11	11	7.6	7.8	8.2	7.1	5.7	8.7	8.4	7.0	6.3
27	7.7	8.5	9.6	7.6	7.9	9.6	7.0	6.0	10	11	6.7	11
28	25	7.8	9.4	10	7.4	8.7	6.9	6.9	8.3	9.2	7.3	11
29	16	7.3	8.8	11	---	11	6.3	9.2	7.4	8.3	9.3	9.9
30	9.3	9.0	8.2	9.3	---	10	6.3	8.2	7.0	9.2	8.4	7.8
31	7.9	---	8.5	8.6	---	8.8	---	6.8	---	10	7.4	---
Total	241.4	251.5	357.0	285.4	239.4	271.9	286.2	249.7	303.4	276.0	263.1	229.7
Mean	7.79	8.38	11.5	9.21	8.55	8.77	9.54	8.05	10.1	8.90	8.49	7.66
Max	25	13	53	17	11	13	27	15	17	21	20	14
Min	5.4	7.1	7.2	7.6	7.4	7.5	6.3	5.7	6.2	6.3	6.3	6.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.51	9.13	9.26	9.26	9.32	9.95	9.78	9.20	8.56	8.39	8.51	8.32
Max	17.9	12.9	14.5	16.4	13.4	13.8	16.7	13.9	14.1	17.9	15.7	13.3
(WY)	(2006)	(2007)	(1974)	(1979)	(1979)	(1953)	(2007)	(1984)	(1984)	(1984)	(1955)	(1960)
Min	5.22	5.48	5.20	5.36	5.66	6.59	5.19	5.45	4.53	4.10	4.54	4.64
(WY)	(1966)	(1967)	(1967)	(1967)	(1968)	(1966)	(1966)	(1965)	(1966)	(1966)	(1966)	(1965)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1937 - 2009	
Annual total	3,306.7		3,254.7			
Annual mean	9.03		8.92		9.04	
Highest annual mean					12.1	1984
Lowest annual mean					5.59	1966
Highest daily mean	53	Dec 12	53	Dec 12	105	Aug 12, 1955
Lowest daily mean	4.7	Jul 21	5.4	Oct 22	3.0	May 24, 1995
Annual seven-day minimum	5.3	Jul 16	5.6	Oct 18	3.7	Oct 7, 1966
10 percent exceeds	12		11		12	
50 percent exceeds	8.2		8.3		8.4	
90 percent exceeds	5.9		6.4		5.8	

