

Water-Data Report 2009

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY

Long Island Basin
Southern Long Island Subbasin

LOCATION.--Lat 40°41'20", long 73°27'19" referenced to North American Datum of 1927, Nassau County, NY, Hydrologic Unit 02030202, on left bank 3,000 ft upstream from Clark Boulevard Bridge in Massapequa, and 350 ft west of Lake Shore Drive at Garfield Street in Massapequa Park.

DRAINAGE AREA.--38.6 mi², revised.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to October 1903, December 1936 to March 2000, May 2005 to current year (monthly means estimated December 1959 to February 1961). Published as Massatayun Creek at Massapequa, December 1936 to September 1941.

REVISED RECORDS.--WSP 1141: Drainage area. WRD NY 1970: 1966-69 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.31 ft above NGVD of 1929. Prior to October 1903, non-recording gage at different datum. December 1936 to March 1961, at datum 1.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 510 ft³/s, July 29, 1980, gage height, 2.40 ft, from rating curve extended above 200 ft³/s; minimum discharge, 0.32 ft³/s, part or all of each day Aug. 29 to Sept. 3, 8, 10-14, 1995, and result of unknown regulation Oct. 31, 2008; minimum gage height, 0.32 ft, Aug. 1, 1954, datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 12	0715	*237	*1.88
No other peak greater than base discharge.			

Minimum discharge, 0.32 ft³/s, Oct. 31, gage height, 0.51 ft.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e6.3	3.2	9.7	6.9	e7.1	e5.3	6.3	7.0	6.0	e10	8.1	4.0
2	e4.7	3.0	7.0	6.7	7.2	e5.8	6.3	7.8	6.7	e14	8.4	3.9
3	e3.9	2.8	6.4	6.5	7.2	e5.0	11	8.5	6.5	11	7.3	3.9
4	3.8	1.1	6.3	6.3	6.8	e4.9	8.6	9.4	14	8.0	6.3	3.7
5	e5.0	3.0	6.3	6.3	6.3	5.1	6.8	8.7	11	7.7	6.1	3.3
6	e3.6	7.3	6.3	6.1	6.3	5.7	12	13	9.2	e7.7	5.8	3.3
7	e3.2	5.8	6.6	26	6.3	6.2	9.2	15	7.2	e21	5.6	3.3
8	e3.2	6.1	5.9	14	6.5	6.1	7.3	9.0	6.6	e19	5.2	3.3
9	4.7	6.1	6.0	9.5	6.0	6.0	6.7	19	19	8.8	4.9	3.3
10	3.9	5.6	6.0	7.7	6.0	5.5	6.5	9.2	8.7	7.8	5.1	3.3
11	3.7	5.4	18	7.7	6.3	e5.4	16	8.3	7.8	7.4	5.4	9.4
12	3.5	5.4	105	6.5	7.0	e5.2	8.7	7.8	27	9.9	5.4	6.0
13	3.3	5.7	15	5.8	6.1	e4.9	7.4	7.4	9.8	6.9	5.2	5.4
14	3.3	5.7	11	5.6	5.8	4.9	7.1	7.9	8.5	6.5	4.9	4.3
15	3.3	8.8	9.5	5.4	5.8	4.9	7.3	9.7	8.6	6.2	4.7	3.9
16	3.3	15	9.4	5.1	5.8	4.9	6.5	7.7	7.8	6.1	4.5	3.7
17	3.3	7.5	12	4.9	5.5	4.9	6.3	7.5	7.3	6.0	4.4	3.7
18	3.1	6.5	9.0	4.9	7.2	4.9	6.3	6.9	31	5.6	4.3	3.6
19	2.9	6.0	8.8	4.6	8.4	5.0	6.3	6.7	13	5.2	4.0	3.5
20	2.8	5.9	8.6	3.5	6.0	4.9	9.4	6.6	12	4.9	4.0	3.3
21	2.6	5.8	17	3.3	5.4	4.6	15	6.3	17	12	4.0	3.0
22	2.6	5.8	10	3.3	5.7	4.5	9.1	6.0	10	7.8	11	2.9
23	2.6	5.9	8.3	3.3	5.4	4.5	8.5	6.0	9.5	9.8	5.6	3.0
24	2.6	6.2	11	3.6	5.2	4.7	7.3	6.6	9.4	18	4.7	2.9
25	3.2	16	12	3.7	5.3	4.9	7.0	6.6	9.0	8.1	4.3	2.7
26	6.0	8.2	8.8	3.6	5.8	5.9	6.8	5.5	10	7.6	4.1	2.6
27	3.5	7.2	8.4	3.2	5.6	7.0	6.5	5.8	9.1	6.9	4.0	10
28	13	6.9	8.3	4.2	e5.5	5.4	6.3	5.9	8.4	6.5	5.8	5.2
29	5.8	6.8	8.1	e9.5	---	15	6.3	20	e8.0	6.8	5.9	5.0
30	1.4	8.4	e7.9	e8.3	---	8.3	6.0	7.8	7.7	7.4	5.1	4.2
31	1.3	---	e7.5	e7.7	---	7.1	---	6.8	---	7.8	4.4	---
Total	119.4	193.1	380.1	203.7	173.5	177.4	240.8	266.4	325.8	278.4	168.5	123.6
Mean	3.85	6.44	12.3	6.57	6.20	5.72	8.03	8.59	10.9	8.98	5.44	4.12
Max	13	16	105	26	8.4	15	16	20	31	21	11	10
Min	1.3	1.1	5.9	3.2	5.2	4.5	6.0	5.5	6.0	4.9	4.0	2.6

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	6.98	8.05	8.84	10.1	10.7	12.7	13.9	12.1	10.0	8.04	7.61	6.47
Max	18.6	24.6	18.8	33.2	25.7	28.7	33.4	32.5	28.8	25.7	22.9	18.3
(WY)	(1956)	(1956)	(1973)	(1979)	(1973)	(1939)	(1953)	(1979)	(1952)	(1984)	(1955)	(1938)
Min	1.56	1.83	1.67	2.42	2.42	3.15	2.68	2.77	1.74	1.32	0.59	1.09
(WY)	(1996)	(1999)	(1999)	(2000)	(2000)	(1995)	(1995)	(1995)	(1999)	(1999)	(1995)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2008	Water Year 2009	Water Years 1937 - 2009
Annual total	2,375.5	2,650.7	
Annual mean	6.49	7.26	9.58
Highest annual mean			19.4
Lowest annual mean			2.27
Highest daily mean	105 Dec 12	105 Dec 12	247 Oct 14, 2005
Lowest daily mean	1.1 Nov 4	1.1 Nov 4	0.32 Aug 30, 1995
Annual seven-day minimum	1.7 Aug 23	2.3 Oct 30	0.37 Aug 28, 1995
Maximum peak flow			510 Jul 29, 1980
Maximum peak stage			2.40 Jul 29, 1980
Instantaneous low flow			0.32 Aug 29, 1995
10 percent exceeds	9.8	11	18
50 percent exceeds	5.3	6.3	7.7
90 percent exceeds	2.6	3.3	2.7

