Water-Data Report 2011

01311500 VALLEY STREAM AT VALLEY STREAM, NY

Long Island Basin
Southern Long Island Subbasin

LOCATION.--Lat 40°39′49″, long 73°42′16″ referenced to North American Datum of 1983, Nassau County, NY, Hydrologic Unit 02030202, on right bank 40 ft upstream from West Valley Stream Boulevard in Valley Stream.

DRAINAGE AREA.--3.77 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1851-52, 1854, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44), July 1954 to current year. Prior to October 1956, published at Watts Creek at Valley Stream.

REVISED RECORDS.--WRD NY-71-1: 1962-63 (M), 1966-69 (M), WDR-US-2009: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft above NGVD of 1929. Prior to 1894, determinations of flow by various methods, at different sites and datums. July 1954 to July 16, 1964, at same site at datum 1.04 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station.

EXTREMES FOR PERIOD OF RECORD.--Extremes prior to 1954 not included. Maximum discharge, 294 ft^3/s, June 30, 1984, gage height, 5.78 ft; no flow at times each year 1963-96, 1998-2003, 2005-11.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 259 ft^3/s, Aug. 28, gage height, 4.65 ft; no flow part or all of many days throughout the water year.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	52	1.1	17	1.8	2.0	3.2	7.0	e2.0	e2.0	e2.6	e2.6	8.5
2	6.4	1.1	3.1	3.6	7.1	5.1	5.1	e3.0	e1.8	e2.6	e2.9	8.3
3	3.0	1.3	1.1	4.1	3.8	5.7	4.4	e5.8	e1.9	e2.6	e2.6	8.0
4	1.4	9.6	1.0	2.8	2.7	5.7	4.6	e10	e1.8	e2.6	e5.3	7.8
5	1.8	2.4	1.2	2.7	3.4	6.1	5.7	e3.5	e2.2	e3.2	e2.6	7.6
6	2.1	1.5	1.2	2.6	5.6	16	4.8	e2.3	e1.9	e2.9	e1.9	19
7	1.8	1.7	1.0	2.8	3.9	23	e4.5	e2.2	e2.0	e7.0	e2.9	20
8	1.8	2.4	0.82	2.7	6.4	6.9	e4.7	e2.6	e2.1	e5.0	e3.2	21
9	1.5	2.1	0.69	2.2	4.1	8.7	e3.7	e2.0	e2.9	e6.0	e8.0	9.8
10	1.2	1.8	0.71	1.8	3.7	9.0	e4.0	e2.6	e4.6	e2.9	e3.2	8.7
11	3.6	1.5	0.70	1.9	3.3	20	e5.3	e2.0	e5.0	e2.9	e2.6	8.2
12	10	2.1	10	3.1	3.3	6.9	e10	e2.2	e4.5	e2.6	e2.6	7.9
13	2.0	2.5	5.7	2.1	3.1	5.8	e17	e2.7	e2.8	e2.6	e2.2	7.6
14	15	2.6	2.8	2.2	4.2	2.4	e4.1	e2.7	e2.1	e2.2	e88	7.4
15	7.7	2.7	2.4	2.2	3.7	4.2	e3.1	e2.7	e2.9	e2.9	e9.0	7.3
16	2.7	3.1	2.0	2.2	3.2	11	e9.1	e2.0	e1.9	e2.2	e6.3	7.1
17	2.2	13	2.0	1.9	4.9	5.5	e17	e20	e13	e2.9	e4.6	7.0
18	2.0	2.8	1.8	15	6.4	5.2	e3.8	e17	e4.8	e2.9	4.3	6.9
19	2.2	2.1	1.9	6.2	6.2	4.7	e4.4	e6.4	e3.4	e2.9	5.0	6.7
20	2.2	1.7	2.2	3.4	5.9	4.5	e4.0	e4.6	e2.4	e2.6	5.0	6.7
21	2.3	1.4	2.4	3.4	7.1	7.2	e3.5	e4.7	e1.9	e2.9	30	6.5
22	2.0	1.4	2.4	2.6	6.7	5.3	e2.9	e4.3	e1.9	e2.9	25	6.3
23	1.7	1.6	2.4	2.4	6.4	7.9	e13	e3.3	e2.5	e2.6	5.5	14
24	1.8	1.0	2.1	2.0	8.9	8.3	e5.2	e4.4	e1.9	e2.2	8.1	15
25	2.1	1.6	2.2	2.1	22	5.6	e7.2	e2.5	e1.9	e2.9	8.3	6.4
26	2.2	2.5	2.6	2.5	8.2	5.2	e3.6	e2.3	e2.1	e3.6	9.9	5.9
27	5.2	1.8	2.7	2.9	6.6	5.1	e3.6	e2.4	e1.9	e3.6	11	5.6
28	1.4	1.3	1.7	2.2	8.7	4.9	e3.4	e2.1	e1.9	e2.2	115	5.2
29	0.00	1.2	1.7	2.1	---	4.7	e2.5	e2.1	e3.7	e15	12	6.9
30	0.16	3.7	1.7	1.9	---	4.6	e2.5	e4.5	e1.9	e5.6	9.8	6.5
31	1.5	---	1.7	1.8	---	5.1	---	e1.9	---	e3.6	8.9	---
Total	142.96	76.6	82.92	93.2	161.5	223.5	173.7	132.8	87.6	111.2	408.3	269.8
Mean	4.61	2.55	2.67	3.01	5.77	7.21	5.79	4.28	2.92	3.59	13.2	8.99
Max	52	13	17	15	22	23	17	20	13	15	115	21
Min	0.00	1.0	0.69	1.8	2.0	2.4	2.5	1.9	1.8	2.2	1.9	5.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.84	1.92	2.05	2.36	2.23	2.78	3.20	2.67	2.35	1.87	2.09	1.97
Max	12.6	10.9	9.18	9.40	9.91	13.9	12.0	12.3	10.7	8.32	16.8	11.6
(WY)	(2006)	(1955)	(1956)	(1956)	(1955)	(2010)	(1958)	(1958)	(2003)	(1956)	(1955)	(1954)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1966)	(1966)	(1966)	(1966)	(1980)	(1981)	(1981)	(1981)	(1966)	(1966)	(1965)	(1982)

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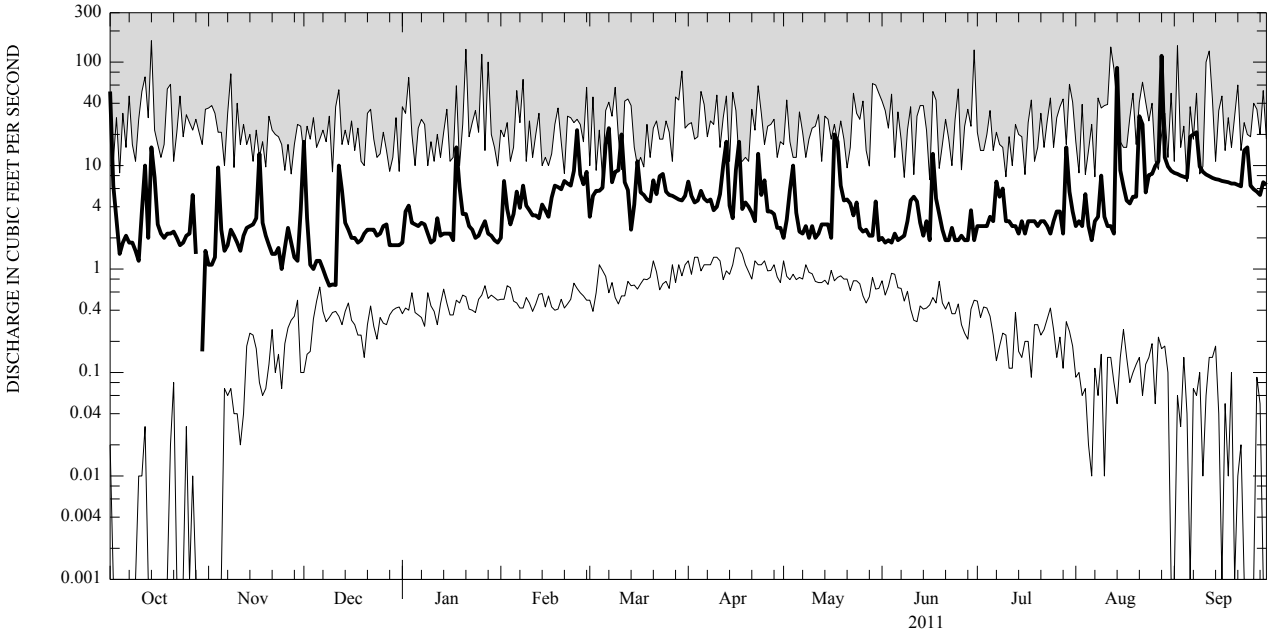
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1954 - 2011	
Annual total	1,787.46		1,964.08			
Annual mean	4.90		5.38		2.25	
Highest annual mean					8.86	1956
Lowest annual mean					0.11	1986
Highest daily mean	82	Mar 30	115	Aug 28	161	Oct 14, 2005
Lowest daily mean	0.00	Jul 22	0.00	Oct 29	0.00	Jul 25, 1963
Annual seven-day minimum	0.00	Jul 26	0.90	Dec 5	0.00	Aug 10, 1963
10 percent exceeds	9.1		9.3		6.3	
50 percent exceeds	3.0		3.1		0.41	
90 percent exceeds	0.00		1.8		0.00	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.
ZERO OR NEGATIVE FLOWS ARE PLOTTED AS 0.001 DISCHARGE, WHICH MAY INCLUDE THE LOWEST DAILY MEAN FOR PERIOD OF RECORD.