



Water-Data Report 2009

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY

Long Island Basin
Northern Long Island Subbasin

LOCATION.--Lat 40°50'58", long 73°13'29" referenced to North American Datum of 1927, Suffolk County, NY, Hydrologic Unit 02030201, on left bank 0.5 mi downstream from New Mill Pond, 1.0 mi southwest of Smithtown, and 1.5 mi southwest of Village of Smithtown Branch.

DRAINAGE AREA.--27.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9.59 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Occasional regulation caused by cleaning of fish screens and trash racks at outlet of New Mill Pond on main stream and ponds on tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 952 ft³/s, Jan. 22, 1979, gage height, 3.22 ft, result of dam failure; minimum discharge, 16 ft³/s, June 5, 6, 1967; minimum gage height, 0.46 ft, Feb. 9, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 123 ft³/s, Dec. 12, gage height, 1.15 ft; minimum discharge, 23 ft³/s, Dec. 23, gage height, 0.53 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	49	42	47	50	53	49	52	49	47	53	55	43
2	46	40	46	49	52	53	51	50	46	52	53	42
3	44	40	45	48	52	51	54	51	46	51	52	41
4	42	39	44	48	51	49	57	54	51	50	50	41
5	43	39	43	49	49	48	54	52	52	49	48	41
6	43	43	43	49	47	48	56	56	54	48	48	40
7	41	42	43	64	46	52	58	59	54	48	47	40
8	40	42	43	70	47	52	54	58	51	58	46	40
9	41	43	42	64	49	53	53	67	55	54	45	40
10	40	41	43	59	49	52	51	63	55	52	45	40
11	40	40	54	57	48	51	58	58	53	49	46	44
12	39	40	114	55	50	49	60	55	69	50	46	48
13	38	40	100	54	50	49	57	53	65	48	46	47
14	38	40	76	52	50	48	54	52	60	48	45	44
15	38	43	65	51	49	48	53	52	57	47	45	44
16	37	52	60	50	48	48	52	51	55	47	45	42
17	38	48	59	48	48	48	50	54	53	46	44	41
18	38	44	58	48	51	48	50	53	59	45	44	41
19	37	41	56	49	57	48	49	50	67	46	46	40
20	37	41	56	49	53	48	52	49	62	45	44	40
21	37	40	57	49	51	48	65	48	69	59	44	41
22	37	39	57	48	50	47	64	46	66	68	49	41
23	36	40	45	48	50	47	60	46	61	64	47	41
24	37	39	58	48	48	46	55	51	58	97	44	41
25	40	51	62	48	48	45	53	44	56	79	44	41
26	51	48	58	47	48	47	51	44	57	66	43	41
27	47	45	54	47	48	51	50	46	59	59	42	49
28	58	43	52	54	49	50	49	46	57	55	44	50
29	56	41	51	62	---	58	49	54	56	53	47	48
30	49	43	50	57	---	58	48	53	56	51	46	45
31	44	---	50	54	---	54	---	49	---	52	43	---
Total	1,301	1,269	1,731	1,625	1,391	1,543	1,619	1,613	1,706	1,689	1,433	1,277
Mean	42.0	42.3	55.8	52.4	49.7	49.8	54.0	52.0	56.9	54.5	46.2	42.6
Max	58	52	114	70	57	58	65	67	69	97	55	50
Min	36	39	42	47	46	45	48	44	46	45	42	40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	39.4	41.0	43.0	44.6	45.4	47.8	49.5	47.4	44.5	40.8	40.0	38.9
Max	76.1	70.0	63.8	75.5	66.2	70.1	73.7	71.3	69.2	70.4	59.0	55.3
(WY)	(1991)	(1956)	(1991)	(1979)	(1979)	(1979)	(1983)	(1998)	(1984)	(1984)	(1984)	(1984)
Min	23.5	24.3	24.0	23.3	23.4	29.2	27.3	30.8	25.6	22.4	22.1	24.2
(WY)	(1967)	(1967)	(1967)	(1967)	(1967)	(1966)	(1966)	(1966)	(1966)	(1966)	(1966)	(1966)

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SUMMARY STATISTICS

	Calendar Year 2008	Water Year 2009		Water Years 1944 - 2009	
Annual total	18,124	18,197			
Annual mean	49.5	49.9		43.5	
Highest annual mean				58.9	2006
Lowest annual mean				27.0	1966
Highest daily mean	116	Mar 8	114	Dec 12	334 Jan 22, 1979
Lowest daily mean	36	Oct 23	36	Oct 23	19 Jun 6, 1967
Annual seven-day minimum	37	Oct 18	37	Oct 18	21 Jul 31, 1966
10 percent exceeds	59		58		57
50 percent exceeds	49		49		42
90 percent exceeds	39		41		31

