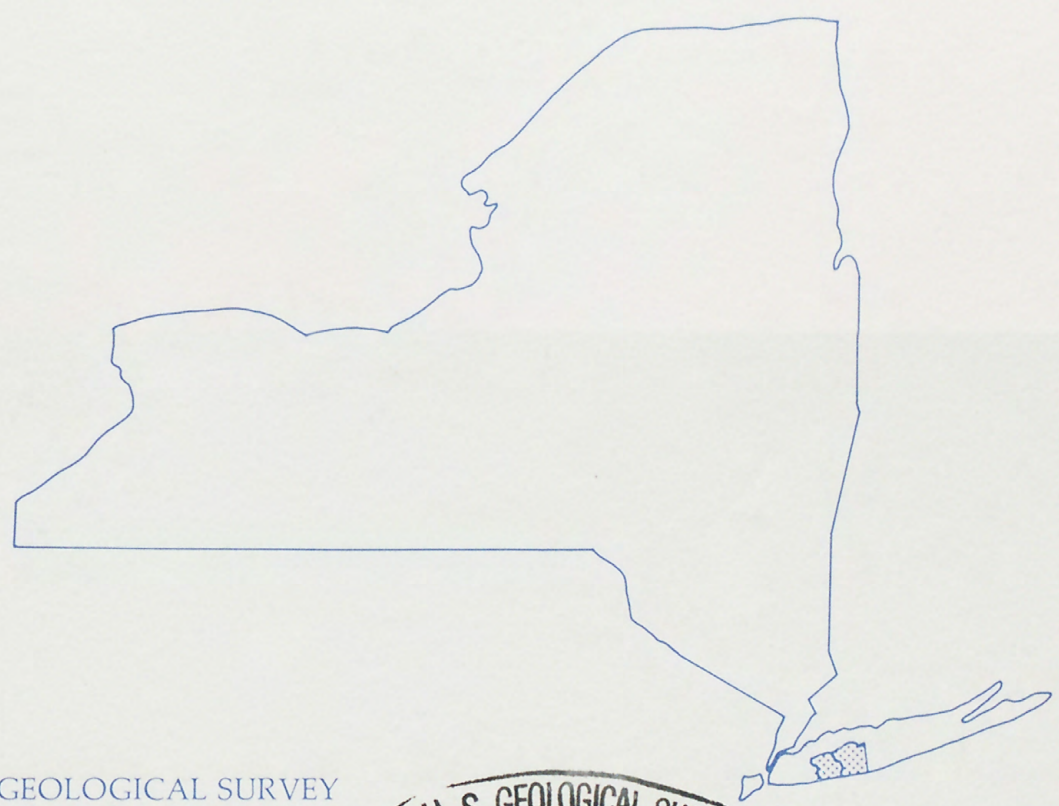


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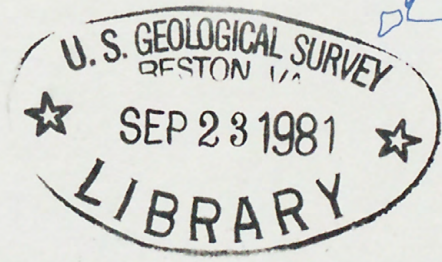
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Base Flow of Streams in Nassau County
Sewer Districts 2 and 3,
Long Island, New York, 1978-79



U.S. GEOLOGICAL SURVEY
Water-Resources Investigations
Open-File Report 81-420



Prepared in cooperation with
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS





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BASE FLOW OF STREAMS IN NASSAU COUNTY SEWER DISTRICTS 2 AND 3,
LONG ISLAND, NEW YORK, 1978-79

By Henry F. H. Ku and Dale L. Simmons

Water-Resources Investigations

Open-File Report 81-420

Open-file report
(United States
Geological Survey)

Prepared in cooperation with
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

Syosset, New York

1981



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UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Doyle G. Frederick, Acting Director

For additional information write to:

U.S. Geological Survey
5 Aerial Way
Syosset, New York 11791

ERRATA
Water Resources Investigations Open-File Report 81-420

Plate 1

Add to "Explanation"

* Stations at which the U.S. Geological Survey maintains and operates continuously recording stream gages.

Hydrogeology.	3
Surficial geology.	3
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Figure 1. Map showing area of investigation and location of streams measured	2
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PLATE

(in pocket)

Plate 1. Map showing location of streamflow-measurement sites, Nassau County Sewer Districts 2 and 3

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CONVERSION FACTORS AND ABBREVIATIONS

<u>Multiply Inch-pound unit</u>	<u>By</u>	<u>To obtain SI unit</u>
foot (ft)	.3048	meter (m)
mile (mi)	1.609	kilometer (km)
inch (in)	25.4	millimeter (mm)
feet per mile (ft/mi)	.1894	meter per kilometer (m/km)
cubic feet per second (ft ³ /s)	.0283	cubic meter per second (m ³ /s)

BASE FLOW OF STREAMS IN NASSAU COUNTY SEWER DISTRICTS 2 AND 3, LONG ISLAND, NEW YORK, 1978-79

By

Henry F. H. Ku and Dale L. Simmons

ABSTRACT

South-shore streams on Long Island, N.Y. are widely spaced and have few or no tributaries. The gradients are gentle, averaging 10 feet per mile. All streams in the area studied have a mean annual discharge of less than 20 cubic feet per second, and most are from 3 to 10 miles long. Under natural conditions, about 95 percent of total streamflow originates as ground-water seepage from the upper glacial aquifer; the remaining 5 percent consists of direct runoff. Thus, the streams of Long Island function as ground-water drains, the flow of which in dry weather is controlled directly by ground-water levels adjacent to the stream channels.

Monthly low-flow discharge measurements of 18 south-shore streams in Nassau County from 1978-79 are tabulated in this report. Measurement sites were established at 1,000-foot intervals between the tide-affected reach and the headwaters of each stream. The measurements provide a data base for the "Flow Augmentation Needs Study," supported by the U.S. Environmental Protection Agency, which will evaluate the need to replace streamflow lost through lowering of the water table as a result of sewerage in Nassau County Sewer Districts 2 and 3.

INTRODUCTION

The advent of sewerage in western Nassau County has brought about an improvement in ground-water quality by intercepting wastewater that would otherwise contaminate the ground-water reservoir. However, this practice has also resulted in a net loss of recharge and a consequent lowering of the water table and reduction in streamflow.

The increased use of sanitary sewers in Sewer District 2 and the construction of new sanitary sewers in Sewer District 3 (fig. 1) have raised questions as to the anticipated magnitude of streamflow reduction. Several measures have been proposed to mitigate the effects of sewerage on streamflow; their effectiveness will be evaluated by a digital computer model of Long Island's hydrologic system.

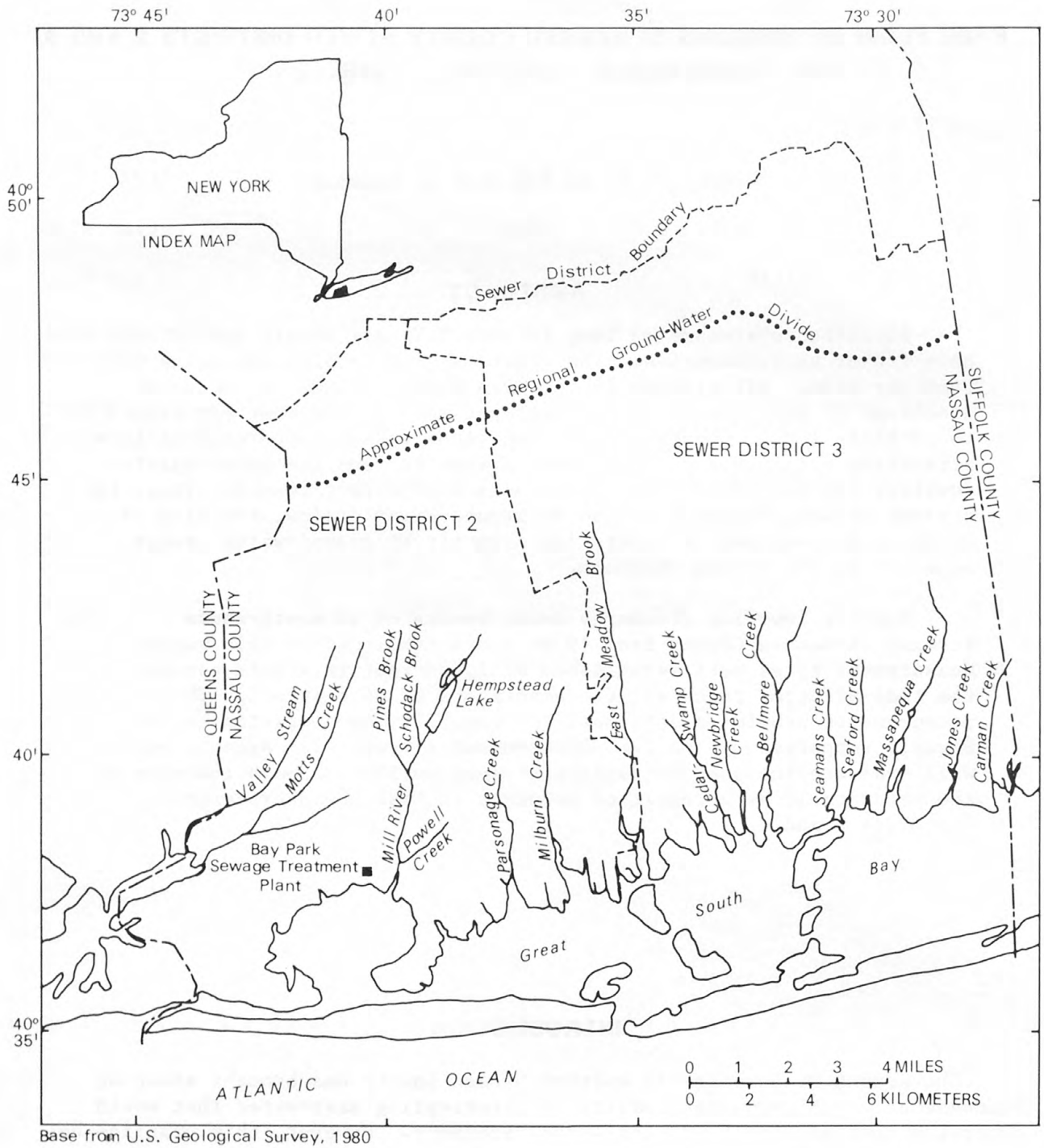


Figure 1.--Area of investigation and location of streams measured.

Purpose and Scope

The streamflow data presented at the end of this report (table 3) were collected as a part of work done in cooperation with Nassau County Department of Public Works in response to grant condition 3 of the U.S. Environmental Protection Agency project C36-982.08. The purpose of the work was to study the effects of selected short-term actions to offset the expected decrease in streamflow and to investigate other changes expected to result from the increased capacity of the Bay Park Sewage Treatment Plant in Sewer District 2 (fig. 1) and construction of new sanitary sewers in Sewer District 3. Detailed streamflow information was needed to calibrate the Geological Survey's digital computer model of ground-water flow. The model will be used to predict base flow in streams on the basis of ground-water conditions in adjacent areas and to predict the hydrologic effects of the several proposed streamflow-augmentation measures.

HYDROGEOLOGY

The geology and hydrology of Long Island have been summarized in numerous reports. Cohen, Franke, and Foxworthy (1968) gave a general overview of the hydrology of Long Island. Reports dealing with specific streams are Seaburn (1969) and Pluhowski and Spinello (1978). Flow-duration and low-flow frequency curves for four of the streams included in this study (Massapequa Creek, Bellmore Creek, East Meadow Brook, and Pines Brook) were presented by Ku and Sulam (1979).

Surficial Geology

Surficial deposits on Long Island are the result of two separate advances of the Wisconsin glacier. Two terminal moraines form east-west trending lines of hills that reach a maximum altitude of about 400 feet. These moraines, which consist of poorly sorted glacial debris, including boulders, gravel, sand, silt, and clay, merge in the western part of the island.

A gently sloping outwash plain composed of well-sorted glaciofluvial sand and gravel extends southward from the line of moraines to the south shore with a slope of about 20 feet per mile (Cohen and others, 1968). The streams listed in this report are on this outwash plain.

Precipitation

Mean annual precipitation on Long Island ranges from slightly less than 41 inches on the south shore of Nassau County to slightly more than 50 inches in the island's central region (Miller and Frederick, 1969); the long-term mean is 44 inches (Cohen and others, 1968). Average warm-season and cool-season precipitation rates are almost equal.

Ground Water

The ground-water system of Long Island is composed of four major aquifers (table 1). The lower three are confined (artesian); the water-table (upper glacial) aquifer is hydraulically connected to the streams and lakes of the island. The water-table aquifer is the source of base flow for all the island's streams but is no longer extensively developed for public-water supply in Nassau County because it has become contaminated from sources such as septic-tank and cesspool discharges.

Koszalka (1975) documented a general rise in water levels on Long Island from 1970-74 that resulted from above-average precipitation in 1972-73. In contrast, water levels in eastern Queens and southwestern Nassau County (fig. 1) declined 3 to 4 feet during the same period; Koszalka (1975, p. 4) attributes this decline to the increase in local ground-water development and to sanitary sewerage in southwestern Nassau County.

Table 1.--Generalized description of hydrogeologic units underlying study area.¹

Hydrogeologic Unit	Lithology and water-bearing character
Upper glacial aquifer	Mainly sand and gravel of moderate to high permeability; also includes clayey till of low permeability.
Gardiners clay	Clay, silty clay, and a little fine sand of low to very low permeability.
Jameco aquifer	Mainly medium to coarse sand of moderate to high permeability.
Magothy aquifer	Coarse to fine sand of moderate permeability; locally contains gravel of high permeability and abundant silt and clay of low to very low permeability.
Raritan clay	Clay of very low permeability; some silt and fine sand of low permeability.
Lloyd aquifer	Sand and gravel of moderate permeability; some clayey material of low permeability.

¹Modified from Cohen and others (1968).

Stream Characteristics

Stream valleys on Long Island are broad, straight, shallow, and generally follow courses established by meltwater channels during glacial retreat. The south-shore streams are widely spaced and have few or no tributaries (fig. 1); the gradients are gentle, averaging 10 feet per mile (Cohen and others, 1968). All streams in the area studied have a mean annual discharge of less than 20 cubic feet per second, and most are from 3 to 10 miles long. Streambeds and banks consist primarily of sand and gravel; both are commonly covered by thick vegetation.

The high permeability of the glacial outwash sand and gravel, in addition to the flat terrain, cause most precipitation beyond stream channels to infiltrate into the ground almost immediately. Under natural conditions, about 95 percent of total streamflow originates as ground-water seepage from the upper glacial aquifer (Franke and McClymonds, 1972); the remaining 5 percent consists of direct runoff. Thus, the streams of Long Island function as ground-water drains, the flow of which in dry weather is controlled directly by ground-water levels adjacent to the stream channels (Pluhowski and Kantrowitz, 1964).

COLLECTION OF DATA

Low-flow measurements were made monthly from April 1978 to May 1979 at selected sites along the 18 streams listed in table 2. (Locations of the streams are shown in fig. 1, measurement-site locations in plate 1. Stream names are those given in U.S. Geological Survey 7.5-minute series topographic maps.) Each month the streams were measured during a 2- to 3-day period following several days without precipitation so that measured flow would consist entirely of ground-water discharge, or base flow.

Table 2.--List of Nassau County streams measured during 1978-79.¹

<u>Sewer District 2</u>	<u>Sewer District 3</u>
Valley Stream	East Meadow Brook
Motts Creek	Cedar Swamp Creek
Mill Creek	Newbridge Creek
Pines Brook	Bellmore Creek
Schodack Brook	Seamans Creek
Hempstead Lake	Seaford Creek
Parsonage Creek	Massapequa Creek
Powell Creek	Jones Creek (Unqua River)
Milburn Creek	Carman Creek

¹Stream locations are shown in figure 1, measurement sites in plate 1.

Measurement sites were established between the tide-affected reach of each stream and its headwaters. In general, the sites were placed at approximately 1,000-foot intervals to give the resolution required by the digital ground-water model for which the data were collected.

During this study, several areas in Sewer District 3 were being dewatered to facilitate the installation of sanitary sewers. Because dewatering lowers the local water table by pumping ground water into a nearby stream, streamflow-measurement sites near and downstream from dewatering activities were not used.

STATION IDENTIFICATION AND LOCATIONS

Downstream Order and Station Numbers

Since October 1, 1950, the listing order of hydrologic-station records in U.S. Geological Survey reports is in a downstream direction along the main stream. All stations on a tributary entering between two main-stream stations are listed numerically between them.

Each hydrologic station has been assigned an 8-digit station number that reflects the downstream order described above. Gaps are left in the series of numbers to allow for new stations; consequently, most numbers are not consecutive. The complete 8-digit number for each station, such as 01310200, consists of an initial 2-digit drainage basin designation "01" (North Atlantic) plus a 6-digit downstream-order number. In the few instances where no gaps were left, it was necessary to add one digit for identification; hence, a few stations have 9-digit numbers.

Station Locations

Each station (measurement site) can be located by its latitude and longitude as well as by reference to the nearest geographic feature such as a road or a bridge. Plate 1 shows all streamflow-measurement sites used in this study as well as the sewer-district boundaries.

PRESENTATION OF DATA

Table 3 (at back of report) presents the low-flow data collected during this study. Streams are given in geographical order from east to west, as in figure 1.

The first column identifies the station by the 8- or 9-digit downstream order number described above. The first station listed for each stream is the first (upstream) site at which flow was measurable during the study. An

asterisk identifies all stations at which the U.S. Geological Survey maintains and operates continuously recording stream gages; most other stations were established specifically for this study.

The second column lists the distance, in miles, of the station from the station furthest downstream.

The third column locates the station by latitude and longitude as well as by site description.

The fourth column lists the date of measurement.

The fifth column gives the stream discharge, in cubic feet per second.

All original data are at the U.S. Geological Survey office, 5 Aerial Way, Syosset, N.Y. 11791.

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- Pluhowski, E. J., and Spinello, A. G., 1978, Impact of sewerage systems on stream baseflow and ground-water recharge on Long Island, New York: U.S. Geological Survey Journal of Research, v. 6, no. 2, p. 263-271.
- Seaburn, G. E., 1969, Effects of urban development on direct runoff to East Meadow Brook, Nassau County, Long Island, New York: U.S. Geological Survey Professional Paper 627-B, p. B1-B14.

Table 3.--Low-flow measurements of streams in Nassau County
Sewer Districts 2 and 3, 1978-79

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Carman Creek</u>				
01309357	1.6	Lat 40°41'25", long 73°25'41", Nassau County, 15 ft downstream of culvert at south parking lot of Northwest School, off County Line Road, at Massapequa Park.	11-20-78	0
			12-28-78	0
			3-21-79	.24
			4-18-79	.11
01309359	1.2	Lat 40°41'04", long 73°25'53", Nassau County, 150 ft north of Loudon Avenue, at Massapequa Park.	10-24-78	5.2
			11-20-78	0
			12-28-78	1/.60EST
			3-21-79	1.6
			4-18-79	.59
01309365	1.0	Lat 40°40'56", long 73°25'56", Nassau County, at island in Sunrise Mall parking lot, 500 ft in front of stores, at Massapequa Park.	11-20-78	.14
			12-28-78	.73
01309370	0.8	Lat 40°40'46", long 73°25'59", Nassau County, eastbound lane of Sunrise Highway, 200 ft from railroad trestle, at Massapequa Park.	11-20-78	1.1
			12-28-78	.89
01309375	0.7	Lat 40°40'37", long 73°26'03", Nassau County, behind East River Savings Bank in Sears Shopping Center south of Sunrise Highway, at Massapequa Park.	11-20-78	.50
			12-28-78	2.0
01309380	0.4	Lat 40°40'23", long 73°26'06", Nassau County, 50 ft south of crosswalk to Berner High School, at Massapequa Park.	11-20-78	1.3
			12-28-78	2.8
01309385	0.2	Lat 40°40'15", long 73°26'03", Nassau County, south parking lot of Berner High School, at Massapequa Park.	10-24-78	5.3
			11-20-78	2.2
			12-28-78	4.4
01309400	0	Lat 40°40'09", long 73°26'02", Nassau County, 30 ft north of Merrick Road, at Massapequa Park.	12-28-78	4.6
<u>Jones Creek</u>				
01309408	0.2	Lat 40°40'27", long 73°26'31", Nassau County, at baseball park at apex of Richard Place, at Massapequa Park.	12-27-78	.75
			3-22-79	2.2
			4-18-79	1.5
01309412	0	Lat 40°40'15", long 73°26'34", Nassau County, 30 ft north of Lee Place, at Massapequa Park.	10-23-78	0
			11-20-78	.52
			12-27-78	1.1
			3-22-79	2.7
			4-18-79	1.6

¹/Estimate of flow too slow or too shallow to measure with Pygmy current meter.

* Measurement site with continuously recording stream gage.

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Massapequa Creek</u>				
01309444	3.2	Lat 40°43'03", long 73°27'09", Nassau County, 80 ft downstream from culvert at western end of Radcliff Avenue, at South Farmingdale.	4-14-78	.30
			5-30-78	.82
			6-27-78	.23
			7-26-78	0
			8-23-78	.08
			9-25-78	.06
			10-23-78	.01EST
			11-20-78	.02EST
			12-26-78	.10
01309462	2.9	Lat 40°42'44", long 73°26'58", Nassau County, 50 ft downstream from two tributaries at western end of 4th Avenue, at South Farmingdale.	4-14-78	1.1
			5-30-78	1.8
			6-27-78	.69
			7-26-78	.40
			8-23-78	.36
			9-25-78	.23
			10-23-78	.19
			11-20-78	.09
			12-26-78	.58
01309470	2.6	Lat 40°42'28", long 73°27'01", Nassau County, 10 ft upstream from pond at western end of 11th Avenue, at South Farmingdale.	4-14-78	1.5
			5-30-78	2.3
			6-27-78	1.3
			7-26-78	.69
			8-23-78	.52
			9-25-78	.48
			10-23-78	.34
			11-20-78	.47
			12-26-78	1.2
013094751	0.8	Lat 40°42'57", long 73°27'30", Nassau County, exit B-2 on Bethpage Parkway and North West Drive, at South Farmingdale.	4-13-78	1.1
			5-30-78	.86
			6-27-78	.45
			8-23-78	.32
			9-25-78	.13
			10-23-78	.14
			11-20-78	.13
			12-26-78	.26
			3-20-79	1.5
013094752	0.6	Lat 40°42'48", long 73°27'26", Nassau County, at Bethpage Parkway, 0.6 mi north of Southern State Parkway, at South Farmingdale.	4-18-79	1.1
			5-22-79	.72
			4-13-78	1.6
			5-30-78	1.7
			6-27-78	.97
			7-26-78	.59
			8-23-78	.70
			9-25-78	.47
			10-23-78	.49
			11-20-78	1.5
			12-26-78	1.1
			3-20-79	2.3
			4-18-79	1.9
			5-22-79	1.9

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Massapequa Creek--continued</u>				
013094753	0.3	Lat 40°42'36", long 73°27'19", Nassau County, 0.5 mi north of Southern State Parkway, at South Farmingdale.	4-13-78	2.2
			5-30-78	2.3
			6-27-78	1.5
			7-26-78	.92
			8-23-78	1.2
			9-25-78	.80
			10-23-78	.81
			11-20-78	.76
			12-26-78	1.5
			3-20-79	3.1
			4-18-79	2.6
			5-22-79	2.0
013094754	0.2	Lat 40°42'29", long 73°27'14", Nassau County, 0.3 mi north of Southern State Parkway, at South Farmingdale.	4-13-78	2.3
			5-31-78	2.4
			6-27-78	1.5
			7-26-78	.63
			8-23-78	1.2
			9-25-78	1.0
			10-23-78	.79
			11-20-78	.83
			12-26-78	1.6
			3-20-79	4.0
			4-19-79	2.8
			5-23-79	2.7
013094755	0.7	Lat 40°42'55", long 73°27'32", Nassau County, exit B-2 on Bethpage State Parkway, at South Farmingdale.	4-13-78	1.4
			5-31-78	1.5
			6-27-78	.35
			7-27-78	0
			8-23-78	.26
			9-25-78	.05EST
			10-23-78	.01EST
			11-20-78	0
			12-27-78	.20
			3-20-79	.20EST
			4-18-79	1.1
			5-23-79	.40
013094756	0.6	Lat 40°42'46", long 73°27'29", Nassau County, 0.5 mi south of Hempstead Turnpike, at South Farmingdale.	4-13-78	1.8
			5-31-78	1.2
			6-28-78	.28
			7-28-78	0
			8-28-78	.04
			9-25-78	.06EST
			10-23-78	.02EST
			11-20-78	0
			12-27-78	.23
			3-20-79	2.2
			4-18-79	1.5
			5-23-79	.79
013094757	0.4	Lat 40°42'38", long 73°27'24", Nassau County, 0.3 mi north of Southern State Parkway, at South Farmingdale.	4-13-78	1.6
			5-31-78	1.2
			6-28-78	.36
			7-27-78	0
			8-23-78	0
			9-25-78	0
			10-23-78	0
			11-20-78	0
			12-27-78	.22
			3-20-79	2.3
			4-18-79	1.7
			5-23-79	1.2

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
Massapequa Creek--continued				
013094758	0.2	Lat 40°42'28", long 73°27'17", Nassau County, 1000 ft north of Southern State Parkway west, at South Farmingdale.	4-13-78	1.8
			6-1-78	1.7
			6-28-78	.71
			7-27-78	0
			8-23-78	0
			9-25-78	0
			10-23-78	.02EST
			12-27-78	.25EST
			3-20-79	2.5EST
			5-23-79	1.4
01309476	2.4	Lat 40°42'21, long 73°27'05", Nassau County, exit ramp of Southern State Parkway to Bethpage State Parkway, at South Farmingdale.	4-13-78	7.3
			5-31-78	6.6
			6-28-78	3.6
			7-27-78	2.2
			8-23-78	2.3
			9-25-78	2.2
			10-23-78	1.6
			11-20-78	1.8
			12-27-78	4.0
013094765	3.7	Lat 40°43'00", long 73°26'14", Nassau County, eastern tributary at Main Street and Junard Drive, at South Farmingdale.	6-27-78	0
			8-24-78	0
			9-27-78	0
			3-20-79	.67
			4-17-79	.60
01309477	3.5	Lat 40°42'52", long 73°26'20", Nassau County, eastern tributary at end of Orchard Street, at South Farmingdale.	6-27-78	0
			8-24-78	0
			9-27-78	0
			3-20-79	.94
			4-17-79	.67
013094775	3.3	Lat 40°42'42", long 73°26'23", Nassau County, eastern tributary at end of Milford Place, at South Farmingdale.	6-27-78	0
			8-24-78	0
			9-27-78	0
			3-20-79	.88
			4-17-79	.60
01309478	3.0	Lat 40°42'32", long 73°26'29", Nassau County, eastern tributary at end of Sylvan Place, at South Farmingdale.	6-27-78	0
			8-24-78	0
			9-27-78	0
			3-20-79	1.3
			4-17-79	.79
013094785	3.0	Lat 40°42'23", long 73°26'36", Nassau County, eastern tributary at Grand Avenue and Intervale Avenue, at North Massapequa.	6-27-78	0
			8-24-78	0
			9-27-78	0
			3-20-79	1.5
			4-17-79	1.2
01309479	2.6	Lat 40°42'16", long 73°26'43", Nassau County, eastern tributary north of South Park Drive at Oakdale Avenue, at North Massapequa.	6-27-78	0
			8-23-78	.02
			9-27-78	0
			3-20-79	5.3
			4-17-79	2.8
013094795	2.4	Lat 40°42'17", long 73°26'58", Nassau County, eastern tributary north of South Park Drive, at Lake Shore Drive, at North Massapequa.	6-27-78	0
			8-24-78	0
			9-27-78	0
			3-20-79	6.0

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
Massapequa Creek--continued				
01309481	2.2	Lat 40°42'12", long 73°27'06", 100 ft south of Linden Avenue, at North Massapequa.	4-12-78	13
			6-27-78	4.1
			8-23-78	2.8
			10-23-78	8.9
			12-27-78	5.2
01309485	2.1	Lat 40°42'06", long 73°27'06", Nassau County, 1000 ft south of Linden Avenue, at North Massapequa.	4-12-78	12
			6-27-78	4.2
			8-24-78	2.2
			10-23-78	8.2
			12-27-78	4.9
01309490	1.8	Lat 40°41'55", long 73°27'08", Nassau County, 0.5 mi south of Southern State Parkway, at North Massapequa.	4-12-78	17
			6-27-78	5.6
			8-24-78	3.4
			10-23-78	9.2
			12-27-78	6.2
01309492	1.5	Lat 40°41'40", long 73°27'11", Nassau County, 0.8 mi south of Southern State Parkway, at North Massapequa.	4-12-78	18
			6-27-78	6.7
			8-24-78	4.2
			10-23-78	10.7
			12-27-78	7.8
01309494	1.2	Lat 40°41'30", long 73°27'18", Nassau County, 1.1 mi north of Sunrise Highway, at Massapequa.	4-12-78	16
			6-27-78	6.4
			10-23-78	11.3
			12-27-78	9.3
01309500*	1.0	Lat 40°41'20", long 73°27'19", Nassau County, gaging station at Massapequa.	4-12-78	18
			6-27-78	8.1
			8-24-78	5.8
			10-23-78	10
			12-27-78	9.5
01309520	0.8	Lat 40°41'11", long 73°27'26", Nassau County, 1000 ft south of gaging station at Massapequa.	4-12-78	21
			6-27-78	10
			8-24-78	7.7
			10-23-78	13
			12-27-78	11
01309540	0.9	Lat 40°41'15", long 73°27'32", Nassau County, 500 ft east of Massachusetts Avenue on western tributary, at Massapequa.	4-13-78	.81
			6-27-78	.33
			8-24-78	0
			10-23-78	.36
			12-27-78	.44
01309560	0.5	Lat 40°40'56", long 73°27'37", Nassau County, 300 ft north of Clark Blvd., at Massapequa.	4-13-78	22
			6-27-78	10
			8-24-78	8.1
			10-23-78	14
			12-27-78	14
01309580	0	Lat 40°40'34", long 73°27'51", Nassau County, 200 ft south of Merrick Road, at Massapequa.	4-13-78	28
			6-27-78	13
			8-24-78	11
			10-23-78	18
			12-27-78	18

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Seaford Creek</u>				
01309610	1.8	Lat 40°41'27", long 73°28'56", Nassau County, 50 ft downstream from culvert on Jerusalem Avenue, at Massapequa.	4-12-78	.15
			6- 1-78	.05
			6-28-78	.46
			7-26-78	.44
			8-23-78	.44
			9-26-78	.40
			10-24-78	.29
			11-21-78	0
			12-28-78	.33
			3-21-79	.86
			4-19-79	.40
			5-23-79	.32
01309620	1.6	Lat 40°41'20", long 73°28'55", Nassau County, 200 ft east of Remsen Street, 900 ft south of Jerusalem Avenue, at Massapequa.	4-12-78	0.25
			6- 1-78	.30
			6-28-78	.54
			7-26-78	.56
			8-23-78	.42
			9-26-78	.46
			10-24-78	.29
			11-21-78	.11
			12-28-78	.41
			3-21-79	1.3
			4-19-79	.42
			5-23-79	.66
01309630	1.4	Lat 40°41'08", long 73°28'56", Nassau County, 300 ft west of Boston Avenue, 0.4 mi south of Jerusalem Avenue, at Massapequa.	4-12-78	.78
			6- 1-78	.64
			6-28-78	.40
			7-26-78	.37
			8-23-78	.21
			9-26-78	.19
			10-24-78	.12
			11-21-78	0
			12-28-78	.38
			3-21-79	1.6
			4-19-79	1.0
			5-23-79	.87
01309640	1.1	Lat 40°40'51", long 73°28'56", Nassau County, at footbridge, 50 ft downstream from culvert on Clark Street, at Massapequa.	4-12-78	1.3
			6- 1-78	1.9
			6-29-78	.53
			7-26-78	.26
			8-23-78	.25
			9-26-78	.30
			10-24-78	.04
			11-21-78	.04
			12-28-78	.95
			3-21-79	2.6
			4-19-79	1.8
01309650	0.9	Lat 40°40'43", long 73°28'56", Nassau County, 300 ft east of intersection of Judge Court and Park Drive, at Massapequa.	4-12-78	1.5
			6- 1-78	1.7
			6-29-78	.84
			7-26-78	.36
			8-23-78	.35
			9-26-78	.26
			10-24-78	.98
			11-21-78	.13
			12-28-78	1.2
			3-21-79	3.0
			4-19-79	1.9

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Seaford Creek--continued</u>				
01309660	0.7	Lat 40°40'32", long 73°28'55", Nassau County, 50 ft upstream from culvert on Sunrise Highway, at Massapequa.	4-12-78	2.5
			6- 1-78	1.8
			6-29-78	.97
			7-27-78	.55
			8-23-78	.75
			9-26-78	.45
			10-24-78	.83
			11-21-78	.21
			12-28-78	3.9
			3-21-79	3.5
		4-19-79	2.6	
01309670	0.4	Lat 40°40'16", long 73°28'56", Nassau County, 200 ft west of intersection of Sycamore Street and Riverside Avenue, at Seaford.	4-12-78	1.9
			6- 1-78	1.9
			6-29-78	.86
			7-27-78	.54
			8-23-78	1.4
			9-26-78	.46
			10-24-78	1.5
			11-21-78	.30
			12-28-78	1.6
			3-21-79	4.4
		4-19-79	2.1	
01309680	0.2	Lat 40°40'08", long 73°28'57", Nassau County, at footbridge, 150 ft west of intersection of Locust Street and Riverside Avenue, at Seaford.	4-12-78	2.4
			6- 1-78	2.3
			6-29-78	.96
			7-27-78	.87
			8-23-78	.86
			9-26-78	.81
			10-24-78	.97
			11-21-78	.56
			12-28-78	1.8
			3-21-79	3.9
		4-19-79	2.1	
01309700	0	Lat 40°40'00", long 73°28'57", Nassau County, 30 ft upstream from culvert on Merrick Road, at Seaford.	6- 1-78	2.4
			6-29-78	.94
			8-24-78	.70
			9-27-78	1.2
			10-24-78	1.0
			11-22-78	.51
			12-28-78	3.2
			3-21-79	4.2
			4-19-79	2.3
<u>Seamans Creek</u>				
01309760	1.5	Lat 40°41'04", long 73°29'47", Nassau County, at Seaford Oyster Bay Expressway, 200 ft east of Wagner Street, at Wantagh.	5-31-78	.54
			6-27-78	0
			7-26-78	0
			8-23-78	0
			9-25-78	0
			10-23-78	0
			11-20-78	0
			12-27-78	0
			3-21-79	.80EST
			4-18-79	.35EST

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Seaford Creek--continued</u>				
01309765	1.3	Lat 40°40'54", long 73°29'46", Nassau County, at Seaford Oyster Bay Expressway, 400 ft east of Wagner Street, at Wantagh.	5-31-78	.80
			9-25-78	0
			10-23-78	.13
			11-20-78	.28
			12-27-78	.30
			3-21-79	2.1
01309770	1.1	Lat 40°40'44", long 73°29'45", Nassau County, at Seaford Oyster Bay Expressway, 500 ft south of Clark Street, at Wantagh.	4-18-79	.98
			5-31-78	1.3
			9-25-78	0
			10-23-78	.35
			11-20-78	0
			12-27-78	.80
01309775	0.9	Lat 40°40'34", long 73°29'45", Nassau County, at Seaford Oyster Bay Expressway, 50 ft east of intersection of Park Avenue and West Seamans Neck Road, at Wantagh.	3-21-79	2.1
			4-18-79	1.0
			5-31-78	1.9
			6-27-78	.59
			7-26-78	.28
			8-23-78	0
01309780	0.7	Lat 40°40'24", long 73°29'44", Nassau County, 150 ft downstream from culvert on Sunrise Highway, at Seaford.	9-25-78	.25
			10-23-78	0
			11-20-78	0
			12-27-78	.96
			3-21-79	2.7
			4-18-79	1.5
01309785	0.4	Lat 40°40'14", long 73°29'41", Nassau County, 200 ft upstream from culvert on Natalie Boulevard, at Seaford.	5-30-78	1.9
			8-23-78	.78
			9-25-78	.28
			10-23-78	.14
			11-20-78	.23
			12-27-78	1.1
01309790	0.3	Lat 40°40'05", long 73°29'36", Nassau County, 20 ft upstream from culvert on Waverly Avenue, at Seaford.	3-21-79	3.6
			4-18-79	1.7
			5-30-78	2.2
			6-27-78	1.1
			7-26-78	.60
			8-23-78	1.1
01309790	0.3	Lat 40°40'05", long 73°29'36", Nassau County, 20 ft upstream from culvert on Waverly Avenue, at Seaford.	9-25-78	.55
			10-23-78	.33
			11-20-78	.44
			12-27-78	1.5
			3-21-79	3.5
			4-18-79	2.2
01309790	0.3	Lat 40°40'05", long 73°29'36", Nassau County, 20 ft upstream from culvert on Waverly Avenue, at Seaford.	5-30-78	2.6
			6-27-78	1.4
			7-26-78	.94
			8-23-78	1.9
			9-25-78	.94
			10-23-78	.65
01309790	0.3	Lat 40°40'05", long 73°29'36", Nassau County, 20 ft upstream from culvert on Waverly Avenue, at Seaford.	11-20-78	.53
			12-27-78	2.1
			3-21-79	4.5
			4-18-79	2.8

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
Seamans Creek--continued				
01309800	0	Lat 40°39'54", long 73°29'36", Nassau County, 60 ft upstream from culvert at Merrick Road, at Seaford.	5-30-78	4.7
			6-27-78	2.9
			7-26-78	2.1
			8-23-78	4.0
			9-25-78	2.4
			10-23-78	1.8
			11-22-78	2.1
			12-27-78	3.5
			3-21-79	5.2
			4-18-79	3.9
Bellmore Creek				
01309860	2.6	Lat 40°42'22", long 73°31'09", Nassau County, south of North Jerusalem Road, at Levittown.	4-12-78	.05
			6- 1-78	0
			6-27-78	0
			7-27-78	0
			8-24-78	0
			9-26-78	0
			10-24-78	0
			11-21-78	0
			3-21-79	.20
			4-19-79	.09
01309870	2.3	Lat 40°42'09", long 73°31'15", Nassau County, at Wantagh State Parkway, at Levittown.	5-22-79	.14
			4-12-78	.47
			6- 1-78	.65
			6-27-78	.35
			7-27-78	.35
			8-24-78	.17
			9-26-78	.05
			11-21-78	.01
			3-21-79	1.5
			4-19-79	1.2
01309880	2.0	Lat 40°41'54", long 73°31'16", Nassau County, at Southern State Parkway exit to Wantagh State Parkway, at Levittown.	5-22-79	1.1
			4-12-78	2.7
			6- 1-78	.47
			6-29-78	.78
			7-27-78	.70
			9-26-78	.50
			11-21-78	.01
			3-21-79	5.2
			3-22-79	7.1
			4-19-79	3.5
01309890	1.6	Lat 40°41'37", long 73°31'16", Nassau County, north end of Holiday Park Drive, 700 ft north of Jerusalem Avenue, at Wantagh.	5-22-79	2.0
			4-12-78	8.2
			6- 1-78	3.9
			6-29-78	5.3
			7-27-78	3.3
			8-24-78	7.1
			9-27-78	.70
			3-22-79	8.7
			4-20-79	4.0
			5-23-79	2.0

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Bellmore Creek--continued</u>				
01309900	1.5	Lat 40°41'31", long 73°31'13", Nassau County, 100 ft south of Jerusalem Avenue, east of Holiday Park Drive, at Wantagh.	4-12-78	9.0
			6- 1-78	4.2
			6-29-78	4.4
			7-27-78	2.7
			8-24-78	6.4
			9-27-78	1.4
			11-22-78	.49
			3-22-79	8.7
			4-20-79	4.6
			5-23-79	5.0
01309910	1.3	Lat 40°41'28", long 73°31'05", Nassau County, 1000 ft south of Jerusalem Avenue, off Beltagh Avenue, at Wantagh.	4-12-78	9.8
			6- 1-78	4.9
			6-28-78	5.0
			7-27-78	2.5
			8-24-78	6.9
			9-27-78	.72
			11-22-78	.76
			3-22-79	8.7
			4-20-79	4.9
			5-23-79	4.9
01309920	1.2	Lat 40°41'20", long 73°30'57", Nassau County, at intersection of Beltagh Avenue and Clovermere Road, at Wantagh.	4-12-78	12
			6-28-78	6.6
			7-27-78	3.6
			9-26-78	2.3
			11-22-78	2.3
			3-22-79	17
			4-20-79	7.0
			5-23-79	4.9
01309930	0.9	Lat 40°41'11", long 73°30'52", Nassau County, 1000 ft south of Clovermere Road, at Wantagh.	4-12-78	12
			6- 1-78	7.1
			6-28-78	7.1
			7-27-78	4.2
			9-26-78	2.4
			11-21-78	3.0
			3-22-79	13
			4-19-79	5.9
01309940	0.7	Lat 40°41'00", long 73°30'53", Nassau County, 0.4 mi south of Clovermere Road, at Wantagh.	5-22-79	6.6
			6- 1-78	9.5
			6-28-78	5.8
			7-27-78	4.2
			9-26-78	2.9
			11-21-78	3.0
			3-21-79	15
			4-20-79	7.3
01309950*	0.3	Lat 40°40'43", long 73°30'58", Nassau County, gaging station no. 1, at Wantagh.	5-22-78	8.0
			4-11-78	13
			6- 1-78	8.2
			11-22-78	3.1
			3-22-79	15
01309957	2.9	Lat 40°42'34", long 73°30'12", Nassau County, tributary at Stony Lane, at Wantagh.	4-20-79	7.6
			4-13-78	.03
			6- 2-78	.05
			6-27-78	0
			7-26-78	0
			8-23-78	0
			9-26-78	0
			10-23-78	0
			11-20-78	0
			3-20-79	.28
			4-18-79	.11
			5-23-79	.12

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Bellmore Creek--continued</u>				
01309960	2.6	Lat 40°42'27", long 73°30'15", Nassau County, tributary at Sprucewood Drive, at Wantagh.	4-13-78	.56
			6- 2-78	.46
			6-27-78	.10
			7-26-78	0
			8-23-78	0
			9-26-78	0
			10-31-78	0
			11-20-78	0
			3-20-79	1.6
			4-18-79	.30
			5-23-79	.10
01309963	2.5	Lat 40°42'15", long 73°30'20", Nassau County, tributary, 500 ft north of Old Jerusalem Road, at Wantagh.	4-13-78	1.3
			6- 2-78	0
			6-27-78	0
			7-26-78	0
			8-23-78	0
			9-26-78	0
			10-23-78	0
			11-20-78	0
			3-20-79	3.1
			4-19-79	.40EST
			5-23-79	1.2EST
01309967	2.3	Lat 40°42'04", long 73°30'26", Nassau County, tributary, at Sandhill Road, at Wantagh.	4-13-78	1.4
			6- 2-78	.98
			6-27-78	.05
			7-26-78	0
			8-23-78	0
			9-26-78	0
			10-23-78	0
			11-20-78	0
			3-20-79	2.6
			4-19-79	1.5
			5-23-79	1.4EST
01309970	1.8	Lat 40°41'52", long 73°30'33", Nassau County, tributary, at Duck Pond Drive North, at Wantagh.	4-13-78	2.2
			6- 2-78	1.5
			6-28-78	.75
			7-26-78	.26
			8-23-78	.14
			9-26-78	.08
			10-24-78	.04
			11-20-78	.04
			3-20-79	3.8
			4-19-79	2.2
			5-23-79	2.6
01309973	1.6	Lat 40°41'41", long 73°30'34", Nassau County, tributary, 300 ft north of Jerusalem Avenue, at Wantagh.	4-13-78	2.8
			6- 2-78	2.1
			6-28-78	.96
			7-26-78	.68
			8-23-78	.51
			9-26-78	.36
			10-24-78	.38
			11-21-78	.31
			3-20-79	5.9
			4-19-79	5.2
			5-23-79	4.9

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)	
<u>Bellmore Creek--continued</u>					
01309977	1.5	Lat 40°41'33", long 73°30'33", Nassau County, tributary, 200 ft south of Jerusalem Avenue, at Wantagh.	4-13-78	3.5	
			6- 2-78	2.5	
			6-28-78	1.4	
			7-26-78	1.0	
			8-23-78	.93	
			9-26-78	.53	
			10-24-78	.59	
			11-21-78	.55	
			3-20-79	6.2	
			4-19-79	4.6	
			5-23-79	13	
01309980	1.1	Lat 40°41'20", long 73°30'37", Nassau County, tributary, at Beltagh Avenue, at North Wantagh.	6- 2-78	2.9	
			6-28-78	1.6	
			7-26-78	.89	
			8-23-78	.99	
			9-26-78	.72	
			10-24-78	.88	
			11-21-78	.60	
			3-20-79	6.5	
			5-23-79	11	
01309983	1.0	Lat 40°41'12", long 73°30'42", Nassau County, tributary, 0.3 mi upstream from Island Road, at Wantagh.	4-14-78	4.1	
			6- 2-78	3.1	
			6-28-78	1.9	
			8-23-78	1.6	
			9-26-78	.93	
			10-24-78	1.0	
			11-21-78	.82	
			3-20-79	7.1	
01309987	0.8	Lat 40°41'06", long 73°30'47", Nassau County, tributary, 300 ft upstream from Island Road, at Wantagh.	4-14-78	4.4	
			6- 2-78	3.3	
			8-23-78	1.2	
			9-26-78	.88	
			10-24-78	1.1	
			11-21-78	1.0	
01309989	0.6	Lat 40°40'57", long 73°30'48", Nassau County, tributary, at east side of Wantagh State Parkway, at Wantagh.	4-12-78	4.7	
			6- 1-78	3.7	
			6-27-78	5.5	
			7-26-78	1.2	
			8-23-78	1.3	
			9-25-78	1.1	
			11-21-78	.96	
			3-20-79	6.7	
01310010	0	Lat 40°40'28", long 73°30'54", Nassau County, at Park Avenue, at Wantagh.	4-12-78	19	
			6- 1-78	15	
			9-27-78	4.3	
			11-22-78	6.3	
			3-22-79	22	
<u>Newbridge Creek</u>					
01310100	0	Lat 40°39'42", long 73°32'02", Nassau County, at Merrick Road, at Bellmore.	4-12-78	.56	
			5-30-78	.30	
			6-28-78	.09	
			7-27-78	.08	
			9-27-78	.19	
			10-23-78	.08	
			11-20-78	.07	
			12-27-78	.89	
			3-20-79	1.0	
			5-23-79	.48	

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Cedar Swamp Creek</u>				
01310102	1.9	Lat 40°41'06", long 73°32'50", Nassau County, 10 ft. downstream from culvert on Redmond Road, at Bellmore.	4-12-78	3.7
			5-31-78	.42
			6-28-78	.28
			7-26-78	.20
			8-24-78	.13
			9-25-78	.10
			10-23-78	.04
			11-20-78	.04
			12-26-78	.12
			3-20-79	2.0
			5-23-79	.64
01310104	1.6	Lat 40°40'55", long 73°32'48", Nassau County, 15 ft upstream from culvert on Losee Court, at Bellmore.	4-12-78	4.8
			5-31-78	.74
			6-27-78	.25
			7-26-78	.06
			8-24-78	0
			9-25-78	0
			10-23-78	0
			11-20-78	0
			12-26-78	.33
			3-20-79	3.8
			5-23-79	.28
01310106	1.4	Lat 40°40'44", long 73°32'46", Nassau County, 50 ft west of Henry Street, 400 ft south of Losee Court, at Bellmore.	4-12-78	5.0
			5-31-78	1.1
			6-27-78	.37
			7-26-78	.05
			8-24-78	.02
			9-25-78	0
			10-23-78	.01
			11-20-78	0
			12-26-78	.42
			3-20-79	5.3
			5-23-79	2.0
01310108	1.2	Lat 40°40'35", long 73°32'42", Nassau County, at east end of Faye Court, at Bellmore.	4-12-78	4.6
			5-31-78	1.7
			6-27-78	.66
			7-26-78	.19
			8-24-78	.19
			9-25-78	.18
			10-23-78	.17
			11-20-78	.07
			12-26-78	.69
			3-20-79	3.3
			5-23-79	1.3
01310115	1.0	Lat 40°40'22", long 73°32'43", Nassau County, at east end of Marion Avenue, at Bellmore.	4-12-78	5.8
			5-31-78	2.1
			6-27-78	.97
			7-26-78	.58
			9-25-78	.50
			10-23-78	.45
			11-20-78	.32
			12-26-78	1.4
			3-20-79	4.2
			5-23-79	3.1

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Cedar Swamp Creek--continued</u>				
01310120	0.8	Lat 40°40'14", long 73°32'40", Nassau County, 30 ft north of Bellwood Drive, at Bellmore.	4-12-78	5.0
			5-31-78	3.2
			6-27-78	1.2
			7-26-78	.63
			8-24-78	.64
			9-25-78	.77
			10-23-78	.52
			11-20-78	.58
			12-26-78	1.4
			3-20-79	5.6
			5-23-79	1.6
01310130	0.7	Lat 40°40'06", long 73°32'41", Nassau County, 50 ft upstream from culvert on Grand Avenue at Bellmore.	4-12-78	7.0
			5-31-78	3.6
			6-27-78	1.8
			7-26-78	1.0
			8-24-78	.50
			9-25-78	1.0
			10-23-78	.80
			11-20-78	.83
			12-26-78	2.4
			3-20-79	5.2
			5-23-79	3.2
01310132	0.4	Lat 40°39'54", long 73°32'40", Nassau County, east outlet of Newbridge Pond, at Bellmore.	4-12-78	2.0
			5-30-78	.92
			6-27-78	.28
			7-26-78	.01
			9-25-78	.08
			10-23-78	.08
			11-20-78	.10
			12-26-78	.50
			3-20-79	2.4
			4-18-79	.83
			5-23-79	1.3
01310140	1.0	Lat 40°40'18", long 73°33'03", Nassau County, 10 ft downstream from culvert on Margaret Boulevard, at Bellmore.	4-12-78	0
			5-31-78	0
			6-27-78	0
			7-26-78	0
			8-24-78	0
			9-25-78	0
			10-23-78	0
			11-20-78	0
			12-26-78	0
			3-20-79	.14
			4-18-79	0
			5-23-79	0
01310142	0.8	Lat 40°40'13", long 73°32'58", Nassau County, 10 ft upstream from culvert on Loines Road, at Bellmore.	4-12-78	.06
			5-31-78	.04
			6-27-78	.02
			7-26-78	0
			8-24-78	0
			9-25-78	0
			10-23-78	0
			11-20-78	0
			12-26-78	.03
			3-20-79	.09
			4-18-79	.20
			5-23-79	.03

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Cedar Swamp Creek--continued</u>				
01310144	0.6	Lat 40°40'04", long 73°32'51", Nassau County, 10 ft upstream from culvert on Smith Street, at Bellmore.	4-12-78	.19
			5-31-78	.15
			6-27-78	.05
			7-26-78	.04
			8-24-78	0
			9-25-78	.02
			10-23-78	.07
			11-20-78	.14
			12-26-78	.13
			3-20-79	.34
			4-18-79	.09
			5-23-79	.18
01310146	0.4	Lat 40°39'54", long 73°32'40", Nassau County, west outlet of Newbridge Pond, at Bellmore.	4-12-78	3.2
			5-30-78	3.5
			6-27-78	2.2
			7-26-78	2.4
			8-24-78	1.8
			9-25-78	.83
			10-23-78	.96
			11-20-78	1.8
			12-26-78	3.0
			3-20-79	5.2
			4-18-79	4.1
			5-23-79	3.0
01310160	0.2	Lat 40°39'47", long 73°32'31", Nassau County, 10 ft upstream from culvert on Richard Street, at Bellmore.	4-12-78	7.9
			5-31-78	6.2
			6-27-78	4.5
			7-26-78	2.9
			8-24-78	2.7
			9-25-78	3.1
			10-23-78	2.8
			11-20-78	.90
			12-26-78	4.4
			3-20-79	6.6
			4-18-79	4.0
			5-23-79	6.0
01310170	0.3	Lat 40°39'55", long 73°32'28", Nassau County, 20 ft downstream from culvert on Sunrise Highway, at Bellmore.	4-12-78	.30
			5-31-78	.24
			6-27-78	.09
			7-26-78	.08
			8-24-78	.12
			9-25-78	.09
			10-23-78	.11
			11-20-78	.06
			12-26-78	.12
			3-20-79	.29
			4-18-79	.27
			5-23-79	14
01310200	0	Lat 40°39'39", long 73°32'24", Nassau County, at bridge on State Highway 27A, in Merrick, 2.5 miles east of Freeport.	4-13-78	12
			5-31-78	8.3
			6-27-78	5.6
			7-26-78	4.7
			8-24-78	4.0
			9-25-78	4.1
			10-23-78	3.9
			11-20-78	3.4
			12-26-78	7.3
			3-20-79	12
			4-18-79	10
			5-23-79	.21

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>East Meadow Brook</u>				
01310470	5.1	Lat 40°44'01", long 73°35'06", Nassau County, 0.9 mi upstream from culvert on Hempstead Turnpike, at Uniondale.	4-14-78	1.4
			5-30-78	1.4
			6-27-78	.46
			7-27-78	.47
			8-25-78	.68
			9-26-78	.40
			10-24-78	1.2
			11-20-78	.52
			12-26-78	.30
			3-21-79	.81
			4-19-79	1.4
01310472	4.8	Lat 40°43'44", long 73°35'03", Nassau County, 0.6 mi upstream from culvert on Hempstead Turnpike, at Uniondale.	5-30-78	1.7
			6-27-78	1.1
			7-27-78	2.8
			8-25-78	.90
			9-26-78	.89
			10-24-78	2.7
			11-20-78	1.6
			12-26-78	.68
			3-21-79	2.0
			4-19-79	1.4
01310473	4.6	Lat 40°43'34", long 73°34'56", Nassau County, 0.4 mi upstream from culvert on Hempstead Turnpike, at Uniondale.	5-30-78	4.3
			6-27-78	5.4
			7-27-78	2.7
			8-25-78	1.1
			9-26-78	.85
			10-24-78	2.1
			11-20-78	2.1
			12-26-78	1.3
			3-21-79	2.5
			4-19-79	1.4
01310474	4.4	Lat 40°43'26", long 73°34'56", Nassau County, 1,000 ft upstream from culvert on Hempstead Turnpike, at Uniondale.	4-13-78	3.2
			5-30-78	4.6
			6-27-78	4.5
			7-27-78	2.6
			8-25-78	1.0
			9-26-78	.92
			10-24-78	1.4
			11-20-78	1.8
			12-26-78	3.2
			3-21-79	8.6
			4-19-79	4.8
01310475	4.2	Lat 40°43'16", long 73°35'00", Nassau County, 75 ft upstream from culvert on Hempstead Turnpike, at Uniondale.	4-13-78	8.7
01310476	3.9	Lat 40°43'04", long 73°34'53", Nassau County, 400 ft upstream from Air Base Road, at Uniondale.	4-13-78	9.6
01310478	3.5	Lat 40°42'43", long 73°34'47", Nassau County, 50 ft upstream from culvert at Front Street, at Uniondale.	4-13-78	7.4
01310480	3.3	Lat 40°42'33", long 73°34'45", Nassau County, 1,000 ft downstream from Front Street, at Uniondale.	4-13-78	6.7

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>East Meadow Brook--continued</u>				
01310482	3.1	Lat 40°42'23", long 73°34'42", Nassau County, 0.4 mi downstream from Front Street, at Uniondale.	4-13-78	7.2
01310484	2.9	Lat 40°42'14", long 73°34'40", Nassau County, 0.6 mi downstream from Front Street, at Uniondale.	4-13-78	7.9
01310486	2.7	Lat 40°42'05", long 73°34'40", Nassau County, 0.7 mi upstream from Jerusalem Avenue, at Uniondale.	4-12-78	17
01310488	2.5	Lat 40°41'56", long 73°34'37", Nassau County, 0.3 mi upstream from Jerusalem Avenue, at Uniondale.	4-12-78	11
01310489	2.3	Lat 40°41'44", long 73°34'35", Nassau County, 500 ft upstream from Jerusalem Avenue, at Uniondale.	4-12-78	12
01310489.5	1.7	Lat 40°41'18", long 73°34'23", Nassau County, 0.3 mi downstream from Southern State Parkway, at Roosevelt.	4-12-78 5-30-78	13 16
01310490	1.6	Lat 40°41'11", long 73°34'25", Nassau County, 0.3 mi downstream from Southern State Parkway, at Roosevelt.	4-12-78 5-30-78	13 16
01310490.5	1.3	Lat 40°40'59", long 73°34'26", Nassau County, 200 ft upstream from Smith Pond, at Roosevelt.	4-12-78 5-30-78	15 26
01310492	1.1	Lat 40°40'46", long 73°34'27", Nassau County, 250 ft downstream from culvert on Washington Avenue, at Roosevelt.	4-13-78 5-30-78	16 23
01310492.5	0.9	Lat 40°40'38", long 73°34'24", Nassau County, 900 ft downstream from culvert on Washington Avenue, at Roosevelt.	4-13-78 5-30-78	17 24
01310493	0.7	Lat 40°40'29", long 73°34'21", Nassau County, 0.4 mi downstream stream from culvert on Washington Avenue, at Roosevelt.	4-13-78 5-30-78	18 26
01310493.5	0.5	Lat 40°40'17", long 73°34'18", Nassau County, 0.4 mi upstream from gaging station at Roosevelt.	4-13-78 5-30-78	16 26
01310495	0.3	Lat 40°40'10", long 73°34'14", Nassau County, 0.3 mi upstream from gaging station at Roosevelt.	4-13-78 5-30-78	18 28

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
East Meadow Brook--continued				
01310496	0.1	Lat 40°40'03", long 73°34'12", Nassau County, 700 ft upstream from gaging station at Roosevelt.	4-13-78	18
			5-30-78	25
01310500*	0	Lat 40°39'56", long 73°34'13", Nassau County, at gaging station at Grand Avenue, at Roosevelt.	4-13-78	19
			5-30-78	26
Milburn Creek				
01310522	2.7	Lat 40°41'07", long 73°35'52", Nassau County, at Brookside and West Pennywood Avenues, at Roosevelt.	6- 2-78	.11
			6-27-78	0
01310524	2.4	Lat 40°40'54", long 73°35'56", Nassau County, at Brookside Avenue and Henry Street, at Roosevelt.	6- 2-78	.16
			6-27-78	0
01310526	2.5	Lat 40°41'02", long 73°36'03", Nassau County, at Pennywood Lane, at Roosevelt.	3-20-79	.48
			4-18-79	.46
			5-22-79	.30
01310528	2.2	Lat 40°40'52", long 73°36'03", Nassau County, at Henry Street, at Roosevelt.	3-20-79	.76
			4-18-79	.46
			5-22-79	.32
01310530	2.1	Lat 40°40'42", long 73°36'01", Nassau County, at Alhambra Road, at Roosevelt.	4-12-78	.18
			6- 2-78	.12
			6-27-78	0
			3-20-79	1.2
			4-18-79	.59
01310532	2.0	Lat 40°40'35", long 73°36'05", Nassau County, at Circle Drive and Mayfair Road, at Roosevelt.	5-22-79	.23
			4-12-78	.40
			6- 2-78	.26
			6-27-78	.01
			7-27-78	0
			12-27-78	.01
			3-20-79	1.4
			4-18-79	.70
01310534	1.8	Lat 40°40'26", long 73°36'07", Nassau County, at end of Barth Avenue, at Roosevelt.	5-22-79	.40
			4-12-78	.74
			6- 2-78	.55
			6-27-78	.19
			7-27-78	.18
			8-23-78	0
			12-27-78	.02
3-20-79	1.8			
4-18-79	.93			
5-22-79	.67			

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Milburn Creek--continued</u>				
01310536	1.6	Lat 40°40'17", long 73°36'10", Nassau County, at Wallace Avenue, at Roosevelt.	4-12-78	.94
			6- 2-78	.95
			6-27-78	.40
			7-27-78	.10
			8-23-78	.02
			9-26-78	0
			10-24-78	0
			11-20-78	0
			12-27-78	.15
			3-20-79	2.2
			4-18-79	1.5
			5-22-79	.91
01310542	1.4	Lat 40°40'09", long 73°36'11", Nassau County, north of Moore Court, at Freeport.	4-12-78	1.8
			6- 2-78	1.4
			6-27-78	.47
			7-26-78	.10
			8-23-78	.08
			9-26-78	.05
			10-24-78	.02
			11-20-78	.01
			12-27-78	.34
			3-20-79	2.6
			4-18-79	1.8
			5-22-79	1.3
01310550	1.1	Lat 40°39'55", long 73°36'13", Nassau County, at Willowbend Lane, at Freeport.	4-12-78	2.0
			6- 1-78	2.0
			6-27-78	1.1
			7-26-78	.58
			8-23-78	.60
			9-26-78	.42
			10-24-78	.37
			11-20-78	.41
			12-27-78	.84
			3-20-79	3.9
			4-17-79	2.6
			5-22-79	1.9
01310560	1.0	Lat 40°39'47", long 73°36'12", Nassau County, at Milburn Court, at Freeport.	4-12-78	2.2
			6- 1-78	2.4
			6-27-78	1.2
			7-26-78	.73
			8-23-78	.53
			9-26-78	.47
			10-24-78	.31
			11-20-78	.34
			12-27-78	.98
			3-20-79	4.0
			4-18-79	2.6
			5-22-79	2.1
01310570	0.7	Lat 40°39'36", long 73°36'12", Nassau County, at Mayfair Court, at Freeport.	4-12-78	2.8
			6- 1-78	2.9
			6-27-78	1.4
			7-26-78	.80
			8-23-78	.65
			9-26-78	.65
			10-24-78	.58
			11-20-78	.61
			12-27-78	1.3
			3-20-79	5.1
			4-18-79	3.4
			5-22-79	2.5

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)			
Milburn Creek--continued							
01310580	0.5	Lat 40°39'25", long 73°36'11", Nassau County, north of Long Island Railroad at Milburn Court, at Freeport.	4-12-78	3.0			
			6- 2-78	3.3			
			6-27-78	2.1			
			7-26-78	.98			
			8-23-78	1.0			
			9-26-78	.80			
			10-24-78	.67			
			11-20-78	.89			
			12-27-78	1.9			
			3-20-79	4.7			
			4-18-79	3.6			
			5-22-79	2.8			
			01310600	0	Lat 40°39'04", long 73°36'13", Nassau County, at Merrick Road, at Baldwin.	6- 1-78	12
6-27-78	8.2						
7-26-78	8.4						
8-24-78	6.2						
9-26-78	5.9						
10-24-78	6.0						
11-20-78	5.9						
12-26-78	8.2						
3-20-79	13						
4-19-79	10						
5-22-79	9.1						
Parsonage Creek							
01310660	0.5	Lat 40°39'14", long 73°37'09", Nassau County, at culvert on Merrick Road, at Oceanside.				4-13-78	.48
			5-30-78	.33			
			6-28-78	.20			
			8-24-78	.05			
			9-25-78	.06			
			10-23-78	.07			
			11-20-78	.02			
			12-26-78	.07			
			3-21-79	.20			
			4-19-79	.10			
			5-23-79	.05			
			01310670	0.2	Lat 40°38'58", long 73°37'05", Nassau County, at culvert on Wateredge Avenue, at Oceanside.	4-13-78	1.0
						5-30-78	1.0
6-28-78	.81						
8-24-78	.42						
9-25-78	.41						
10-23-78	.30						
11-20-78	.34						
12-26-78	.64						
3-21-79	1.0						
4-19-79	.97						
5-23-79	.53						
01310680	0.2	Lat 40°38'59", long 73°36'54", Nassau County, at Veterans Memorial Plaza, behind monument, at Oceanside.				4-13-78	1.7
						5-30-78	1.7
			6-28-78	1.1			
			7-28-78	2.2			
			8-24-78	1.2			
			9-25-78	1.1			
			10-23-78	.38			
			11-20-78	.69			
			12-26-78	1.3			
			3-21-79	2.2			
			4-19-79	1.9			
			5-25-79	1.9			

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)			
<u>Parsonage Creek--continued</u>							
01310700	0	Lat 40°38'48", long 73°36'59", Nassau County, at culvert on Foxhurst Road, at Oceanside.	5-30-78	2.5			
			6-28-78	1.5			
			7-28-78	2.2			
			8-24-78	2.2			
			10-24-78	1.1			
			12-26-78	2.0			
			3-22-79	3.3			
			4-19-79	2.5			
<u>Hempstead Lake</u>							
01310794	2.7	Lat 40°41'49", long 73°37'52", Nassau County, tributary to Hempstead Lake, at culvert on President Street, at Hempstead.	4-13-78	2.1			
			5-30-78	.79			
			6-28-78	1.7			
			7-27-78	.46			
			8-23-78	.47			
			9-25-78	.37			
			10-23-78	.63			
			11-20-78	.08			
			12-26-78	.41			
			3-21-79	.94			
			4-19-79	.80			
			5-23-79	.95			
01310800	0.2	Lat 40°40'00", long 73°39'08", Nassau County, outlet of Hempstead Lake, at culvert on Lakeview Road, at Hempstead.	4-13-78	2.6			
			5-30-78	3.3			
			6-28-78	1.6			
			7-27-78	.27			
			8-23-78	.16			
			9-25-78	.15			
			10-23-78	.13			
			11-20-78	.04			
			12-26-78	.94			
			3-21-79	4.4			
			4-19-79	3.2			
			5-23-79	2.6			
01310805	0	Lat 40°39'51", long 73°39'15", Nassau County, outlet of Hempstead Lake, at culvert on Maine Street, at Hempstead.	4-13-78	3.9			
			5-30-78	4.0			
			6-28-78	2.2			
			9-25-78	.82			
			10-23-78	.70			
			11-20-78	.90			
			12-26-78	2.1			
			3-21-79	5.2			
			4-19-79	5.3			
			5-23-79	2.7			
			<u>Schodack Brook</u>				
			01310795	0.7	Lat 40°41'08", long 73°39'07", Nassau County, at culvert on Eagle Avenue, at Lakeview.	4-13-78	0
5-30-78	0						
6-28-78	0						
7-27-78	0						
8-23-78	0						
9-25-78	0						
11-20-78	0						
12-26-78	0						

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Schodack Brook--continued</u>				
01310796	0.5	Lat 40°41'00", long 73°39'10", Nassau County, at culvert on Southern State Parkway, at Lakeview.	4-14-78	0
			5-30-78	0
			6-28-78	0
			7-27-78	0
			8-23-78	0
			9-25-78	0
			11-20-78	0
			12-26-78	0
01310797	0.3	Lat 40°40'49", long 73°39'10", Nassau County, 150 ft downstream from culvert on Melvin Avenue, at Lakeview.	4-14-78	.17
			5-30-78	.19
			6-28-78	.10
			7-27-78	0
			8-23-78	0
			9-25-78	0
			11-20-78	0
			12-26-78	.02
			3-21-79	.24
			4-19-79	.25
5-23-79	.45			
01310798	0	Lat 40°40'33", long 73°39'08", Nassau County, 500 ft downstream from culvert on Colonial Road, at Lakeview.	4-14-78	.47
			5-30-78	.61
			6-28-78	.38
			7-27-78	.11
			8-23-78	.01
			9-25-78	0
			10-23-78	.01EST
			11-20-78	.01
			12-26-78	.07
			3-21-79	1.0
			4-19-79	.86
			5-23-79	.63
<u>Pines Brook</u>				
01310880	1.2	Lat 40°41'00", long 73°39'42", Nassau County, at culvert on Taylor Road, at West Hempstead.	4-13-78	0
			6- 2-78	0
			6-29-78	0
			7-26-78	0
01310890	1.0	Lat 40°40'50", long 73°39'44", Nassau County, 150 ft east of Atlas Court, at Malverne.	4-13-78	0
			6- 2-78	.01
			6-29-78	0
			7-26-78	0
01310900	0.8	Lat 40°40'40", long 73°39'46", 100 ft east of Coral Court, at Malverne.	3-21-79	.59
			4-13-78	.30
			6- 2-78	.13
			3-21-79	1.0
01310910	0.5	Lat 40°40'29", long 73°39'46", Nassau County, 300 ft upstream from culvert on Pinebrook Avenue, at Malverne.	5-22-79	.35
			4-13-78	.40
			3-21-79	2.4
			5-22-79	.58
01310920	0.3	Lat 40°40'19", long 73°39'44", Nassau County, 600 ft downstream from culvert on Pinebrook Avenue, at Malverne.	4-13-78	.80
			6- 2-78	.43
			6-29-78	.56
			7-26-78	.35
			3-21-79	.91

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Pines Brook--continued</u>				
01311000*	0	Lat 40°40'01", long 73°39'35", Nassau County, at gaging station at Lakeview Avenue, at Malverne.	4-13-78 6- 2-78 6-29-78 7-26-78 8-23-78 9-25-78 10-23-78 11-20-78 11-21-78 3-21-79 4-18-79 4-19-79 5-22-79	1.6 1.1 .35 .27 .17 .21 .27 .27 .27 2.0 1.6 2.3 2.3
<u>Powell Creek</u>				
01311110	0.3	Lat 40°38'50", long 73°38'26", Nassau County, at culvert on Academy Street, at Oceanside.	4-13-78 5-30-78 6-28-78 7-27-78 8-24-78 9-25-78 10-23-78 11-20-78 3-20-79 4-18-79 5-22-79	.19 .18 .11 .05 .08 .03 .10 .07 .15 .36 .10
01311120	0	Lat 40°38'40", long 73°38'36", Nassau County, 20 ft upstream from culvert on Woods Avenue, at Oceanside.	4-13-78 5-30-78 6-28-78 7-27-78 8-24-78 9-25-78 10-23-78 11-20-78 3-20-79 4-18-79 5-22-79	.89 .92 .92 .65 .92 .37 .54 .45 .91 .84 .93
<u>Motts Creek</u>				
01311182	1.2	Lat 40°39'51", long 73°41'29", Nassau County, at culvert on Oxford Street, at Valley Stream.	4-12-78 5-30-78 6-28-78 7-26-78 8-23-78 9-26-78	0 0 0 0 0 0
01311185	1.0	Lat 40°39'23", long 73°41'53", Nassau County, 700 ft upstream from culvert on Rockaway Avenue, at Valley Stream.	4-12-78 5-30-78 7-26-78 8-23-78 9-26-78 10-23-78 11-20-78 3-20-79 4-18-79	0.06 .08 .08 .08 .03 .02 .13 .01 .64
01311187	0.8	Lat 40°39'15", long 73°41'57", Nassau County, 5 ft downstream from culvert on Rockaway Avenue at Valley Stream.	4-12-78 5-30-78 6-28-78 3-20-79 4-18-79 5-22-79	.13 .21 .06 .24 .15EST .07

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
Motts Creek--continued				
01311190	0.6	Lat 40°39'08", long 73°42'11", Nassau County, 20 ft downstream from culvert on Cochran Place, at Valley Stream.	4-12-78	.29
			5-30-78	.12
			6-28-78	.04
			7-26-78	.01
			3-20-79	.42
			4-18-79	.13
			5-22-79	.14
01311192	0.4	Lat 40°39'07", long 73°42'24", Nassau County, 0.2 mi downstream from culvert on Cochran Place, at Valley Stream.	4-12-78	.45
			5-30-78	.53
			6-28-78	.14
			7-26-78	.05
			9-26-78	.03
			10-23-78	.06
			11-20-78	.02
			3-20-79	1.2
01311194	0.2	Lat 40°39'06", long 73°42'34", Nassau County, 15 ft downstream from culvert on Mill Road, at Valley Stream.	4-12-78	.62
			5-30-78	.36
			6-28-78	.17
			9-26-78	.06
			10-23-78	.05
			3-20-79	1.2
			4-18-79	.51
01311200	0	Lat 40°39'01", long 73°42'45", Nassau County, 50 ft downstream from bridge on Rosedale Road (Ocean Avenue), at Valley Stream.	5-22-79	.44
			4-12-78	.69
			5-30-78	.56
			6-28-78	.16
			10-23-78	.03
			3-20-79	.97
			4-18-79	.79
Valley Stream				
01311230	2.9	Lat 40°41'50", long 73°41'02", Nassau County, East of Burton Avenue, at Valley Stream.	4-12-78	0
01311240	2.8	Lat 40°41'41", long 73°41'11", Nassau County, 40 ft north of New York Avenue, at Valley Stream.	4-12-78	0
01311260	2.5	Lat 40°41'31", long 73°41'11", Nassau County, 30 ft north of G Street, at Valley Stream.	4-12-78	0
01311280	2.3	Lat 40°40'21", long 73°41'15", Nassau County, behind Hills Supermarket on Franklin Avenue, at Valley Stream.	4-12-78	0
01311300	2.2	Lat 40°41'12", long 73°41'19", Nassau County, 500 ft north of Dutch Broadway, at Valley Stream.	4-12-78	0
01311320	2.0	Lat 40°41'02", long 73°41'22", Nassau County, 30 ft north of culvert, westbound entrance of Southern State Parkway at Corona Avenue, at Valley Stream.	4-12-78	0

Table 3.--Low-flow measurements--(continued)

Measurement site number	Distance from furthest downstream site (miles)	Location of measurement site	Date of measurement	Discharge (ft ³ /s)
<u>Valley Stream--continued</u>				
01311340	1.7	Lat 40°40'50", long 73°41'26", Nassau County, north end of Valley Stream State Park, at Valley Stream.	4-12-78	0
01311360	1.5	Lat 40°40'42", long 73°41'32", Nassau County, at Valley Stream State Park, at Valley Stream.	4-12-78	0
01311380	1.9	Lat 40°41'08", long 73°41'46", Nassau County, at Westgate Drive, 250 ft south of North Fletcher Avenue, at Valley Stream.	4-12-78	0
01311400	1.7	Lat 40°40'57", long 73°41'46", Nassau County, northeast corner of Westgate Drive and Stephen Avenue, at Valley Stream.	4-12-78	0
01311420	1.5	Lat 40°40'49", long 73°41'44", Nassau County, between Valley Stream State Park exit and Southern State Parkway, at Valley Stream.	4-12-78	0
01311440	1.3	Lat 40°40'38", long 73°41'48", Nassau County, at Valley Stream State Park, at Valley Stream.	4-12-78	0
01311460	1.3	Lat 40°40'34", long 73°41'41", Nassau County, at Valley Stream State Park, at Valley Stream.	4-12-78	0
01311480	1.1	Lat 40°41'28", long 73°41'50", Nassau County, 75 ft south of Henderson Avenue, at Valley Stream.	4-14-78	0
01311500*	0.3	Lat 40°39'49", long 73°42'18", Nassau County, at gaging station, at Valley Stream.	4-14-78	0
			5-22-78	.04
			8-23-78	0
			9-25-78	0
			10-23-78	0
			11-20-78	0
			3-20-79	.50
			4-19-79	.14
01311600	0.4	Lat 40°39'55", long 73°42'21", Nassau County, 50 ft south of Smith Street, at Valley Stream.	4-14-79	0
01311700	0.1	Lat 40°39'47", long 73°42'21", Nassau County, 1,000 ft south of gaging station at bridge, at Valley Stream.	3-20-79	.59
01311720	0	Lat 40°39'39", long 73°42'28", Nassau County, 150 ft south of Sunrise Highway, at Valley Stream.	4-14-79	0

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