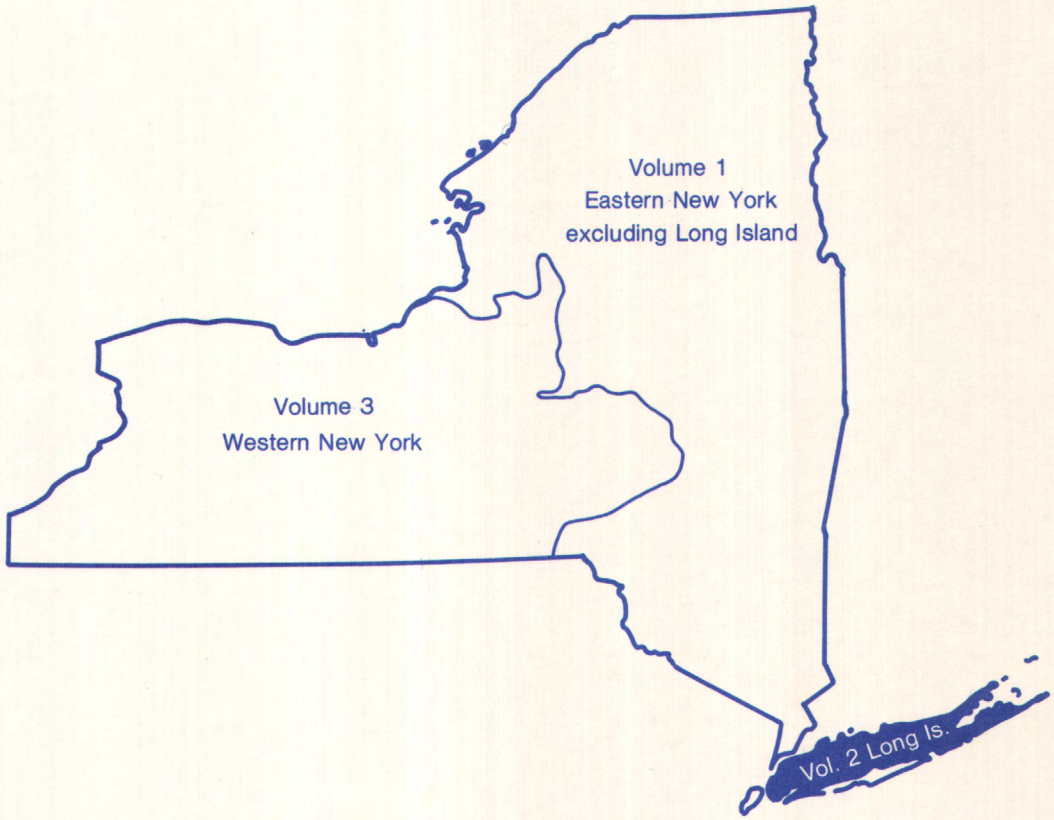
Water Resources Data New York Water Year 1986

Volume 2. Long Island



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-86-2
Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1986

1985

OCTOBER

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1986

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28	29	30				

Water Resources Data New York Water Year 1986

Volume 2. Long Island

by A.G. Spinello, J.H. Nakao, and R.B. Winowitch

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-86-2
Prepared in cooperation with the State of New York
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in New York write to
District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Courthouse
P.O. Box 1669
Albany, New York 12201

or
For information on the water program in Long Island write to
Subdistrict Chief, Water Resources Division
U.S. Geological Survey
5 Aerial Way
Syosset, New York 11791

1987

PREFACE

This volume of the annual hydrologic data report of New York is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for New York are contained in 3 volumes:

Volume 1. Eastern New York excluding Long Island
Volume 2. Long Island
Volume 3. Western New York

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

R. J. Busciolano
P. L. Maniscalco
E. F. Rossano
B. J. Schneider

J. A. Pitt typed the text of the report.

This report was prepared in cooperation with the State of New York and with other agencies under the general supervision of L. A. Martens, District Chief, New York.

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Water resources data for the 1986 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 17 gaging stations; water quality at 16 gaging stations, 109 wells, and 3 precipitation stations; and water levels at 118 observation wells. Also included are data for 82 low-flow partial-record stations. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements and analyses. These data, together with the data in Volumes 1 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.

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CONTENTS

ILLUSTRATIONS

TABLE

[*Letter after station name designates type of data: (d) discharge, (e) contents and/or elevation, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment*]

STREAMS ON LONG ISLAND

WATER RESOURCES DATA FOR NEW YORK, 1986
Volume 2.--Long Island

INTRODUCTION

Water resources data for the 1986 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; water quality of precipitation; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 17 gaging stations; water quality at 16 gaging stations, 109 wells, and 3 precipitation stations; and water levels at 118 observation wells. Also included are data for 82 low-flow partial-record stations. Locations of these sites are shown on pages 22-30. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements and analyses. These data together with the data in Volumes 1 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Bldg. 41, Box 25425, Denver, Colorado, 80225.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-86-2". These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (518) 472-2457.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative programs for the systematic collection of water records since 1900. Organizations that assisted in collecting the data included in Volume 2 through cooperative agreements with the U.S. Geological Survey are:

New York State Department of Environmental Conservation, Henry G. Williams, Commissioner.

County of Nassau, Department of Public Works, L. C. Hasl, Commissioner.

County of Suffolk, Department of Health Services, Dr. David Harris, Commissioner.

County of Suffolk, Water Authority, R. J. Flynn, Chairman.

The following organizations aided in collecting records:

Nassau County Department of Health, Nassau County Department of Public Works, Suffolk County Department of Health Services, and Suffolk County Water Authority.

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflows and ground-water levels on Long Island were near or below average at the beginning of the 1986 water year but increased gradually and leveled off during the winter. By April and May, they began a decline that continued through September (end of the water year), at which time they were near or below average (figs. 2-5).

Streamflow generally was below average throughout the 1986 water year. The discharge of most western Long Island streams peaked during the storm of November 17, whereas that of eastern Long Island streams peaked during storms of March 15, July 27, and August 3, 18. Maximum monthly mean discharges at most stations occurred in November, and minimum monthly mean discharges occurred during September.

Water levels in most wells screened in the water-table aquifer began to rise in November and December, then leveled off until April or May when they started a slow decline that continued through the rest of the water year. A few wells in east-central Nassau County had record low water levels in September. Water levels in most wells screened in the Lloyd and Magothy aquifers were lower than those in the previous year.

Concentrations of inorganic constituents in surface water and ground water during the 1986 water year showed no significant change from the previous year. Dissolved-solids concentrations in ground water were greatest in the upper glacial aquifer, where specific conductance had a median value of 196 µS/cm (microsiemens per centimeter at 25° Celsius). Significant concentrations of dissolved solids also were detected in the upper part of the Magothy aquifer, where specific conductance had a median value of 51 µS/cm.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound system units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present as stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or faculative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-endo median (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on KF Streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material: See Bottom material.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium, for example water, that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is the term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table (it can also be above ground level). Formerly called artesian aquifer.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample which passes through a 0.45 µm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organic carbon (OC) is a measure of the organic matter present in aqueous solution and (or) suspension. May be reported in any of three categories (DOC, dissolved organic carbon; SOC, suspended organic carbon; TOC, total organic carbon).

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Periphyton is the assemblage of algae, fungi, and bacteria which are attached to or live upon submerged objects in lakes or rivers.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10}) radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Euglenoids (Euglenophyta) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (Pyrrhophyta) are free-swimming unicells characterized by a red spot.

Green-algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated napthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated napthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time) for periphyton and macrophytes and mg C/(m^3·time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2·time) for periphyton and macrophytes and mg O_2/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentrations of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as a boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 µm filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total".

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexageria
Species.....Hexagenia limbata

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analyses):

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample).

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

When virtually all of a constituent is present in the dissolved phase, the reported value for the dissolved constituent may appear slightly greater than that for the total determination. The difference is within the standard laboratory error for the analytical methods used.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total organic carbon (TOC) is a measure of all organic matter present in aqueous solution and suspension.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure. It is defined by the levels at which water stands in wells that penetrate the water body just far enough to hold standing water.

Water-table aquifer is an unconfined aquifer whose upper boundary is the water table.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station, partial-record station, and miscellaneous site has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01300500 includes the 2-digit part number "01" plus the 6-digit downstream order number "300500". (In a few instances where no gaps were left in the 8-digit numbering sequence it was necessary to add one or two digits for identification; hence, there are a few stations or miscellaneous sites with 9-or 10-digit numbers.) (If random water-quality samples are taken at a miscellaneous site where a 9-or a 10-digit downstream order identification number is used, that site is assigned a latitude-longitude number.)

NUMBERING SYSTEM FOR WELLS

The 8-digit downstream order station numbers are not assigned to wells. The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. See figure 1 below.

A local well-numbering system is also used. It is a 2-part identifier, assigned by the New York State Department of Environmental Conservation, consisting of the abbreviation of county name and the serial number of the well within the county.

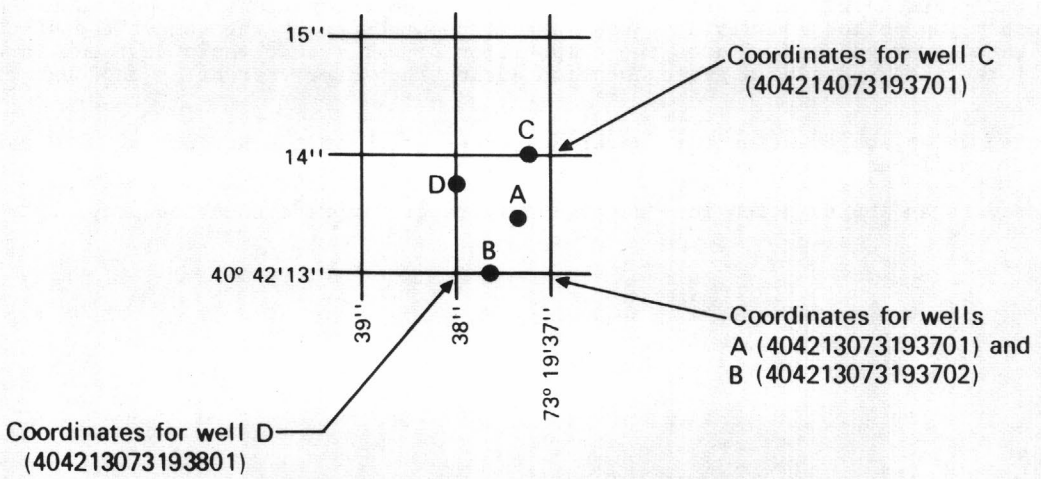


Figure 1. System for numbering wells (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for 11 stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 6.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous records or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where large adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Data for precipitation-quality stations appears next. The table of ground-water quality follows ground-water level records. Data for quality of ground water is listed alphabetically by County, and is identified by well number.

Descriptive Headings

For continuing record stations, data is preceded by information pertinent to the history of station operation. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Headings for precipitation-quality records include location information and a description of the sample collector.

Revisions

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Terminology used in reporting chemical constituents is an indication of whether all or only part of a constituent associated with the solids in a water-quality sample is determined by a chemical analysis. (See preceding section, "Definition of Terms.") The "recoverable" in the terms "Suspended, recoverable", "Total, recoverable", and "Recoverable from bottom material" indicates that the constituent was digested by a method that results in the dissolution of only readily soluble substances. Thus, the determination may not represent all of the constituent actually present in the sample. The "total" in the terms "Total", "Suspended, total", and "Total in bottom material" is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

At NASQAN stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

Measurements of particle-size distribution for suspended sediment have not been made for Long Island streams. Based on visual inspection of samples, the proportion of suspended sediment finer than 0.062 mm has been assumed to be greater than 95%.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of Data

Although over 950 wells are measured at annual or more frequent intervals, only ground-water level data from a basic network of 118 observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet in reference to National Geodetic Vertical Datum of 1929. National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum in reference to National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot.

ACCESS TO WATSTORE DATA

The National WATer STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Bldg. 41, Box 25425, Denver, Colorado, 80225 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature-influential factors, field measurement, and data presentation,* by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
3-A9. *Measurement of time of travel and dispersion in streams by dye tracing,* by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
3-A11. *Measurement of discharge by moving-boat method,* G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
5-A2. *Determination of minor elements in water by emission spectroscopy, by* P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
5-A3. *Methods for analysis of organic substances in water,* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
5-C1. *Laboratory theory and methods for sediment analysis,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
7-C3. *A model for simulation of flow in singular and interconnected channels,* by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
8-A1. *Methods of measuring water levels in deep wells,* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

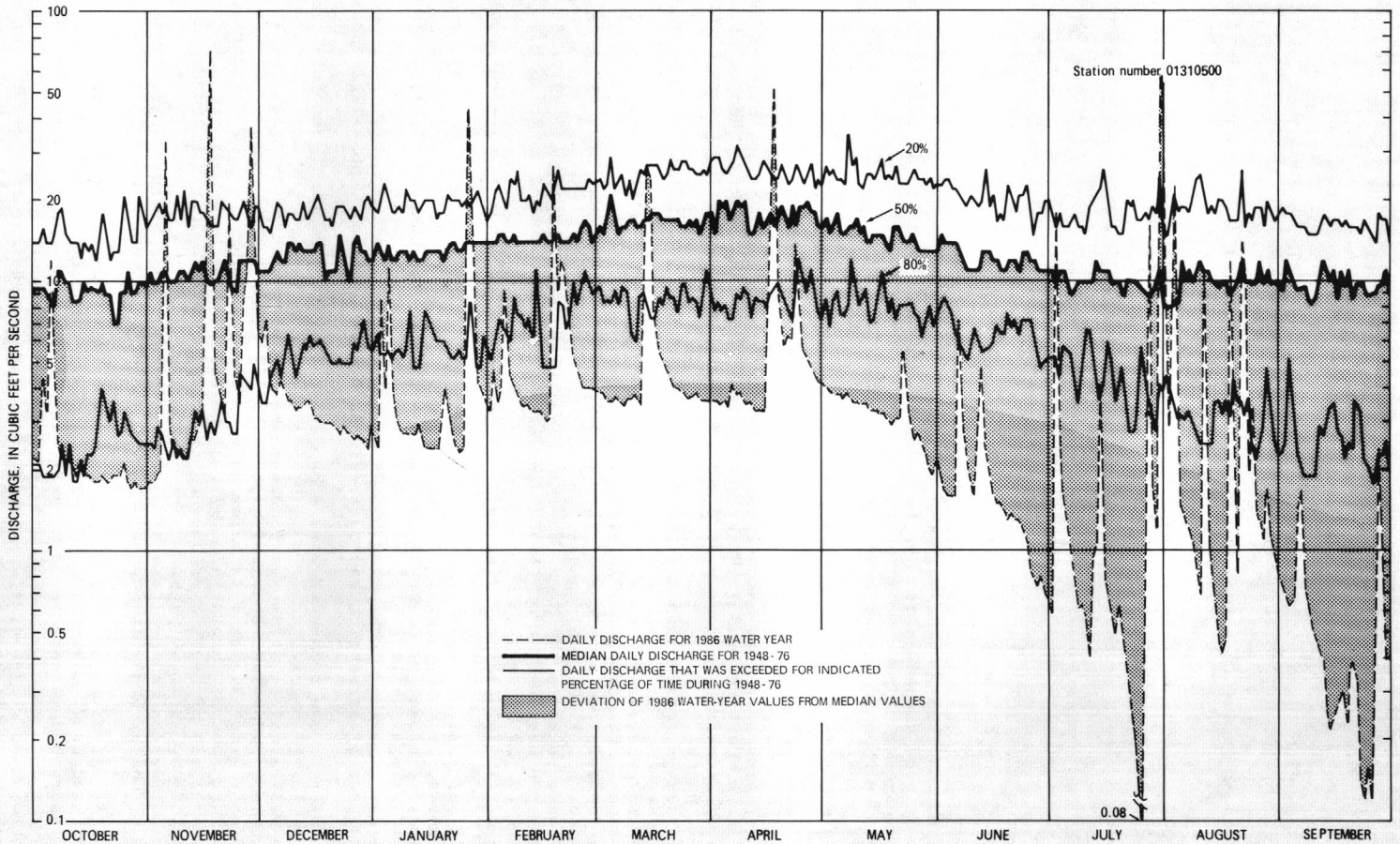


Figure 2.--Hydrographic Comparisons, East Meadow Brook at Freeport

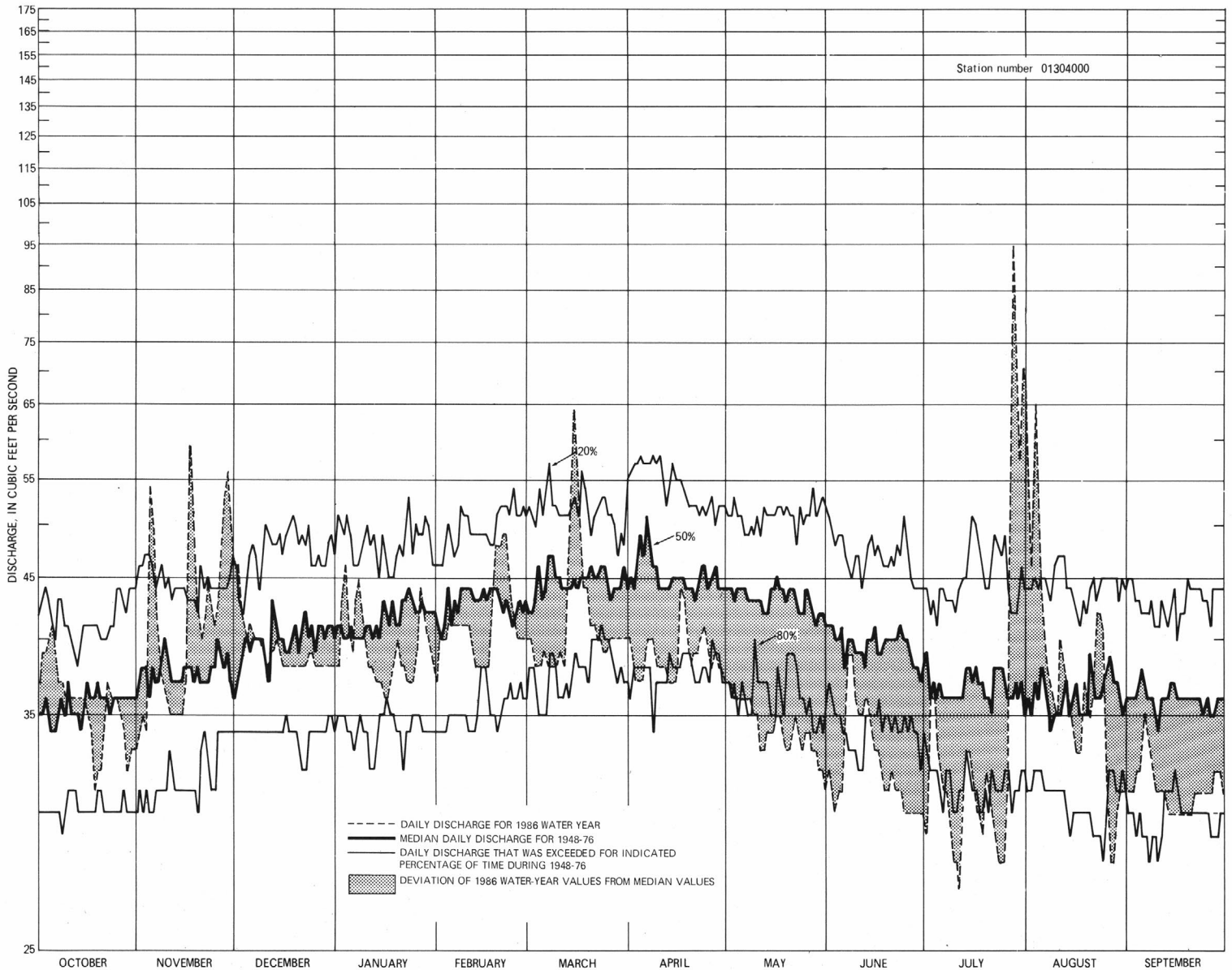


Figure 3 --Hydrographic Comparisons, Nissequogue River near Smithtown

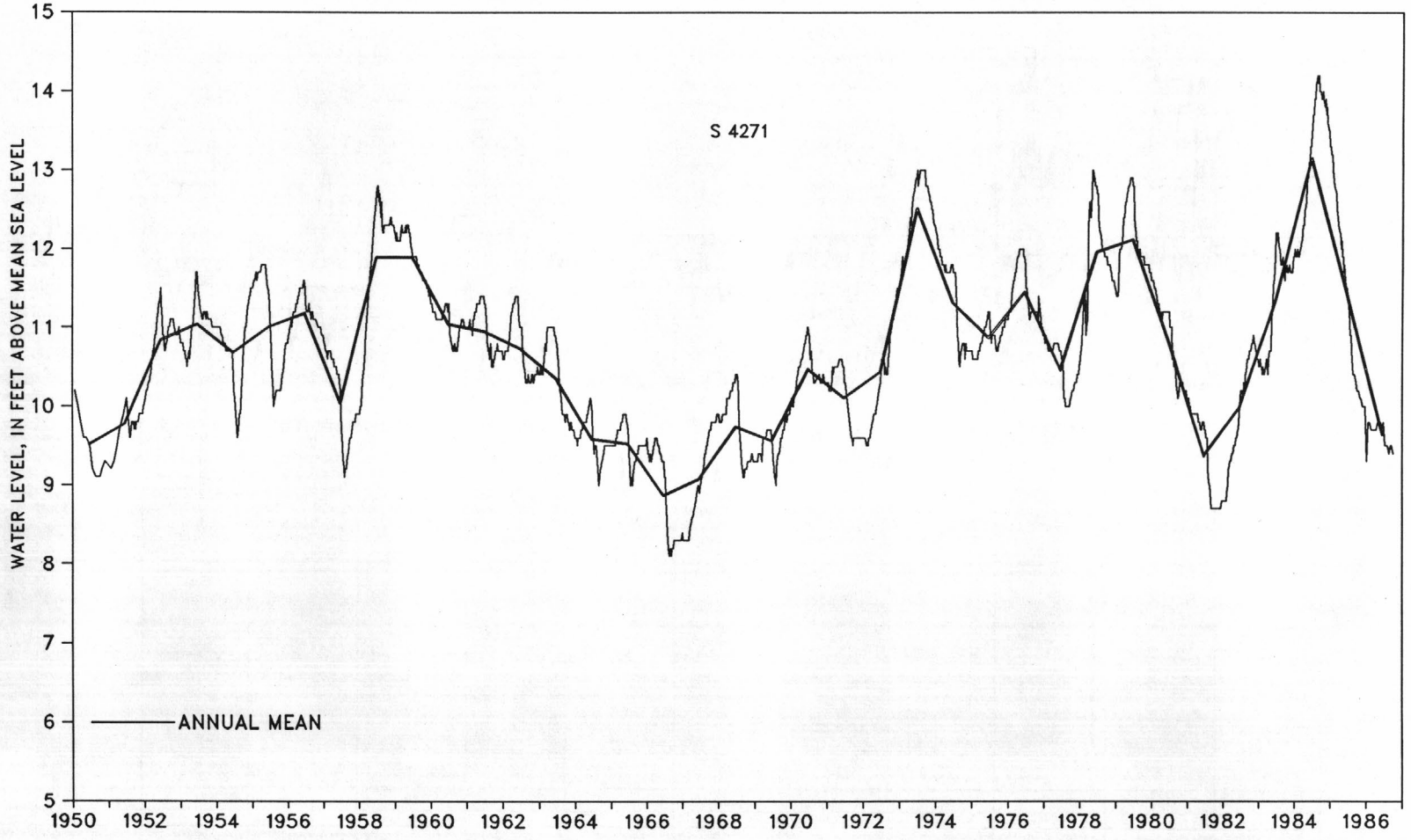


Figure 4.--Hydrograph of water-table observation well S4271 at Riverhead

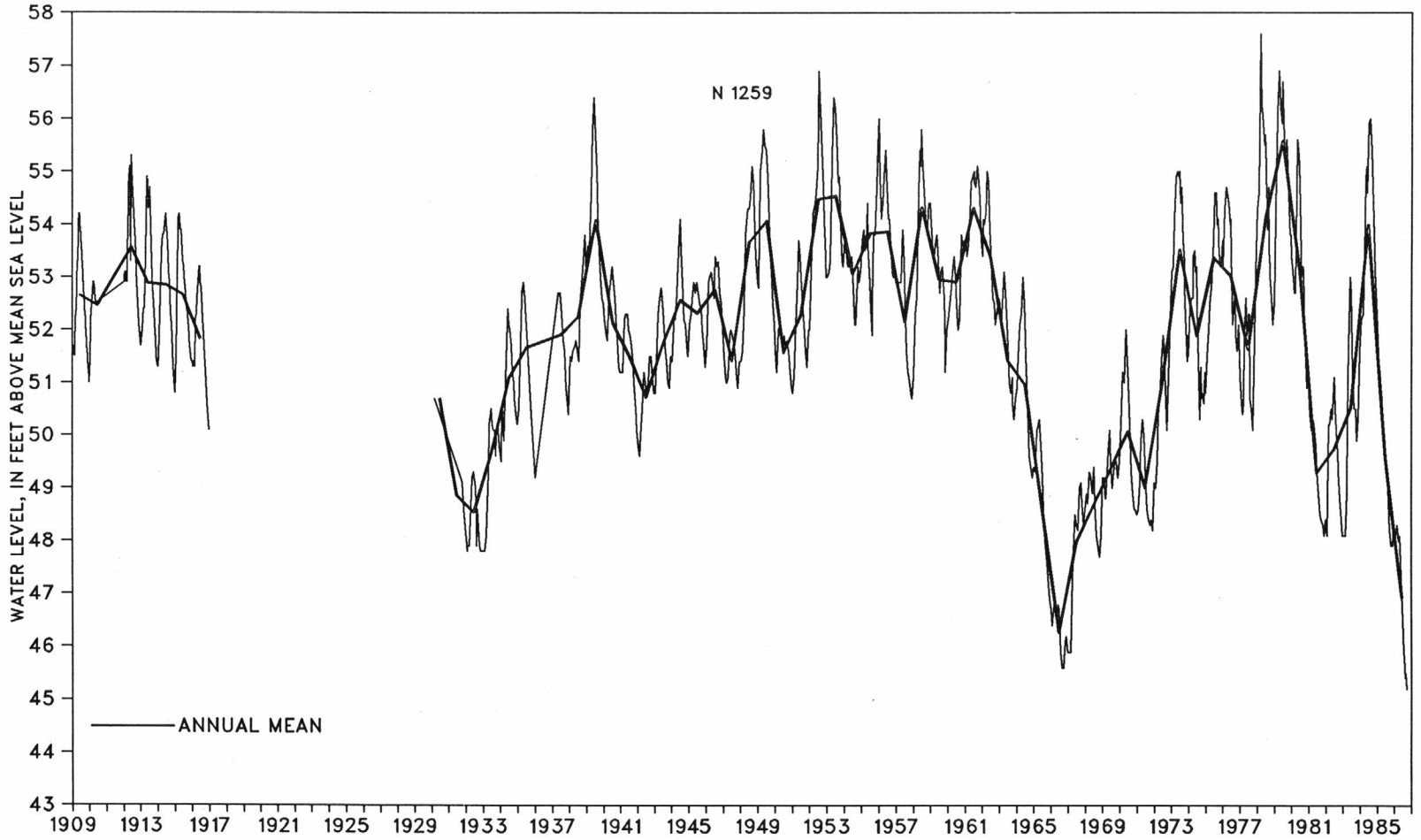


Figure 5.--Hydrograph of water-table observation well N1259 at Plainedge

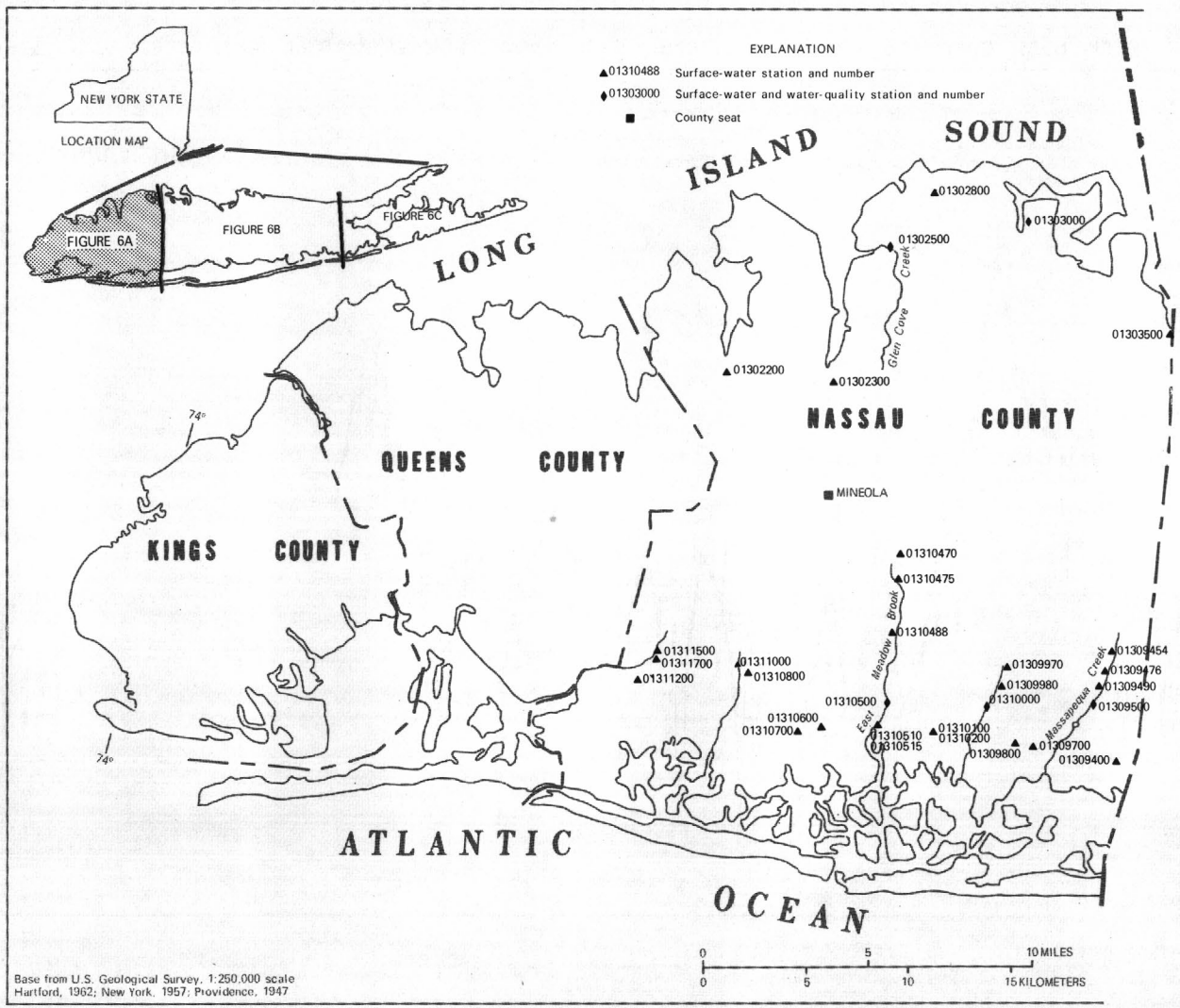


FIGURE 6A.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

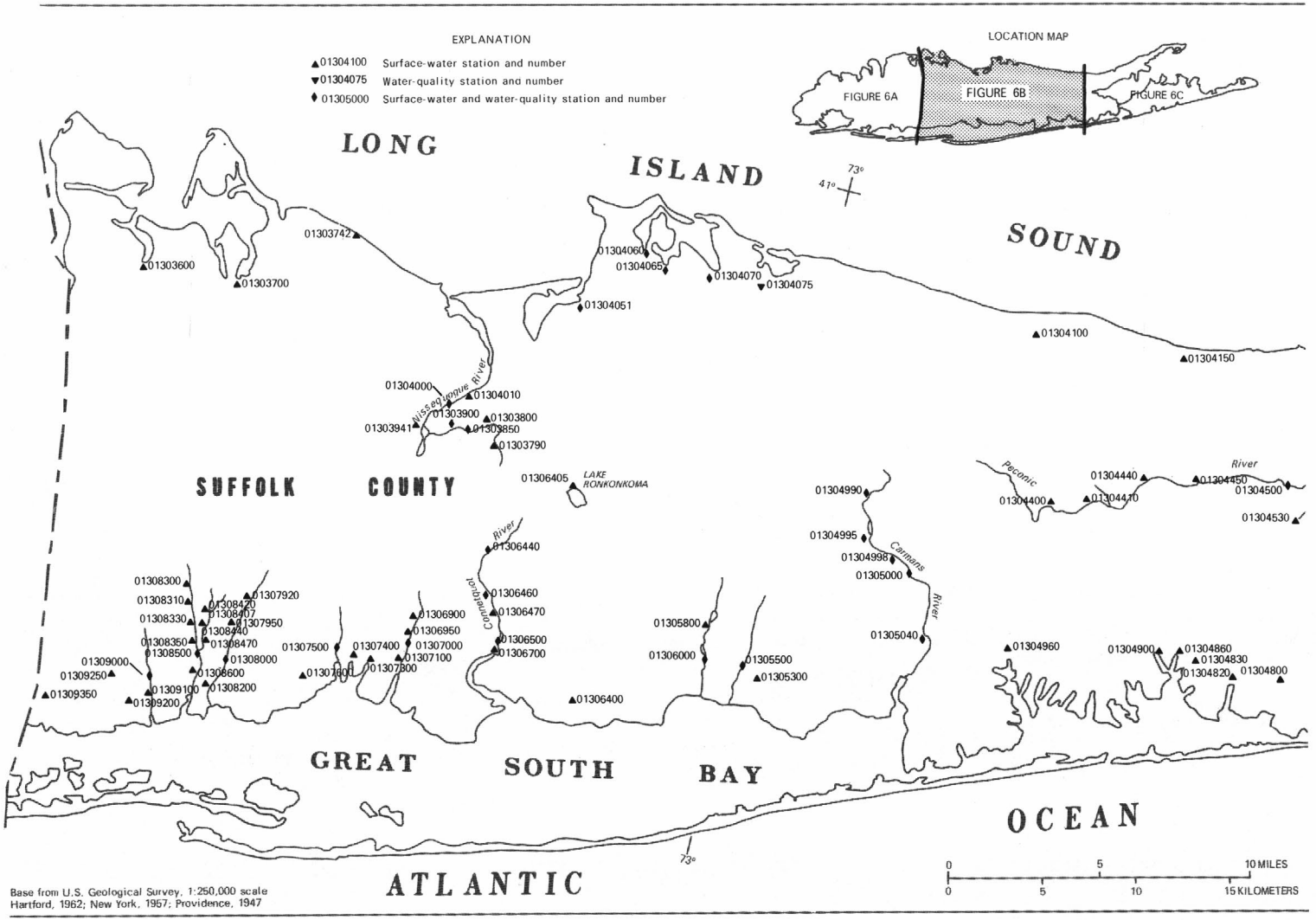


FIGURE 6B.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

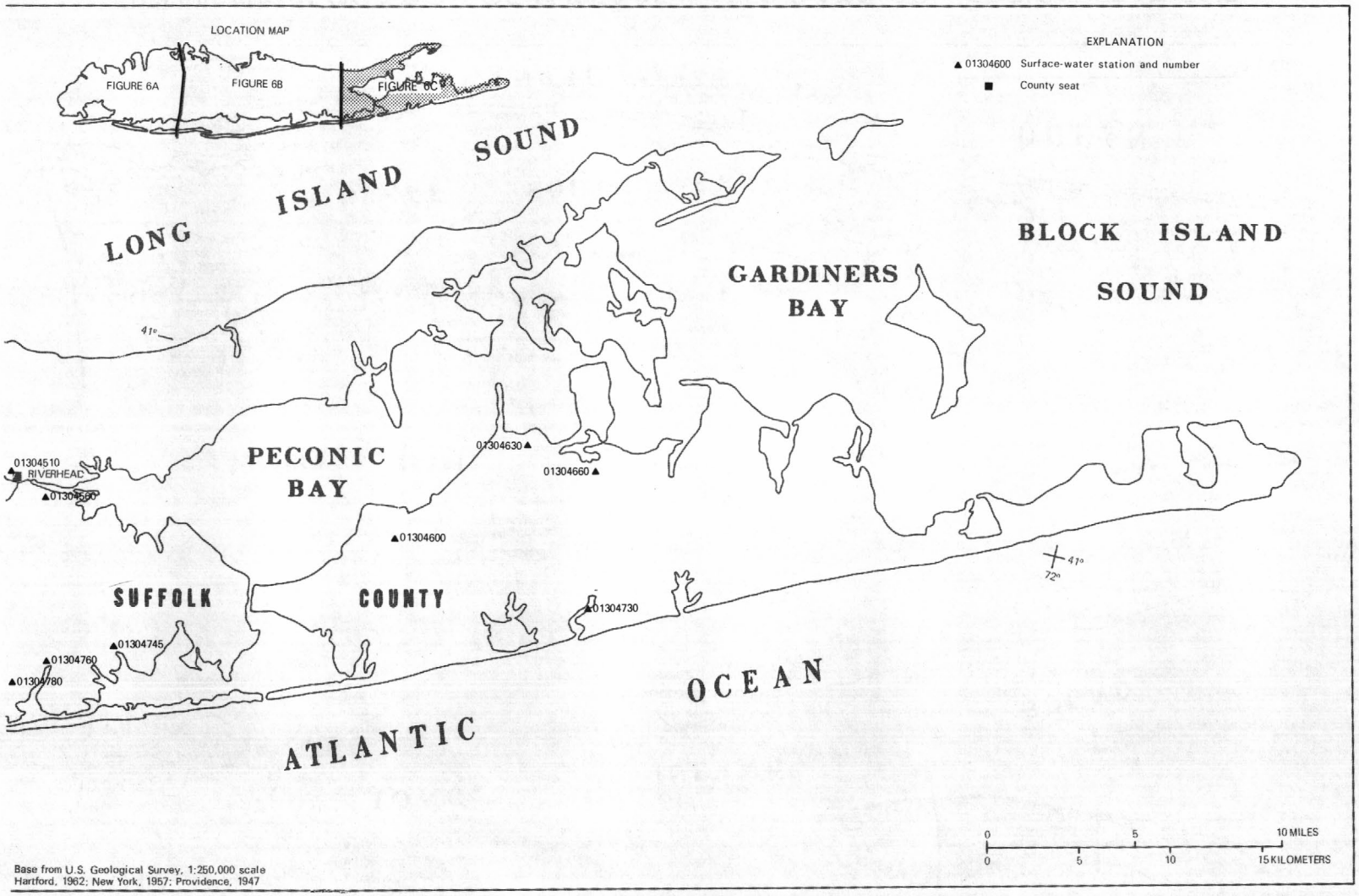


FIGURE 6C.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

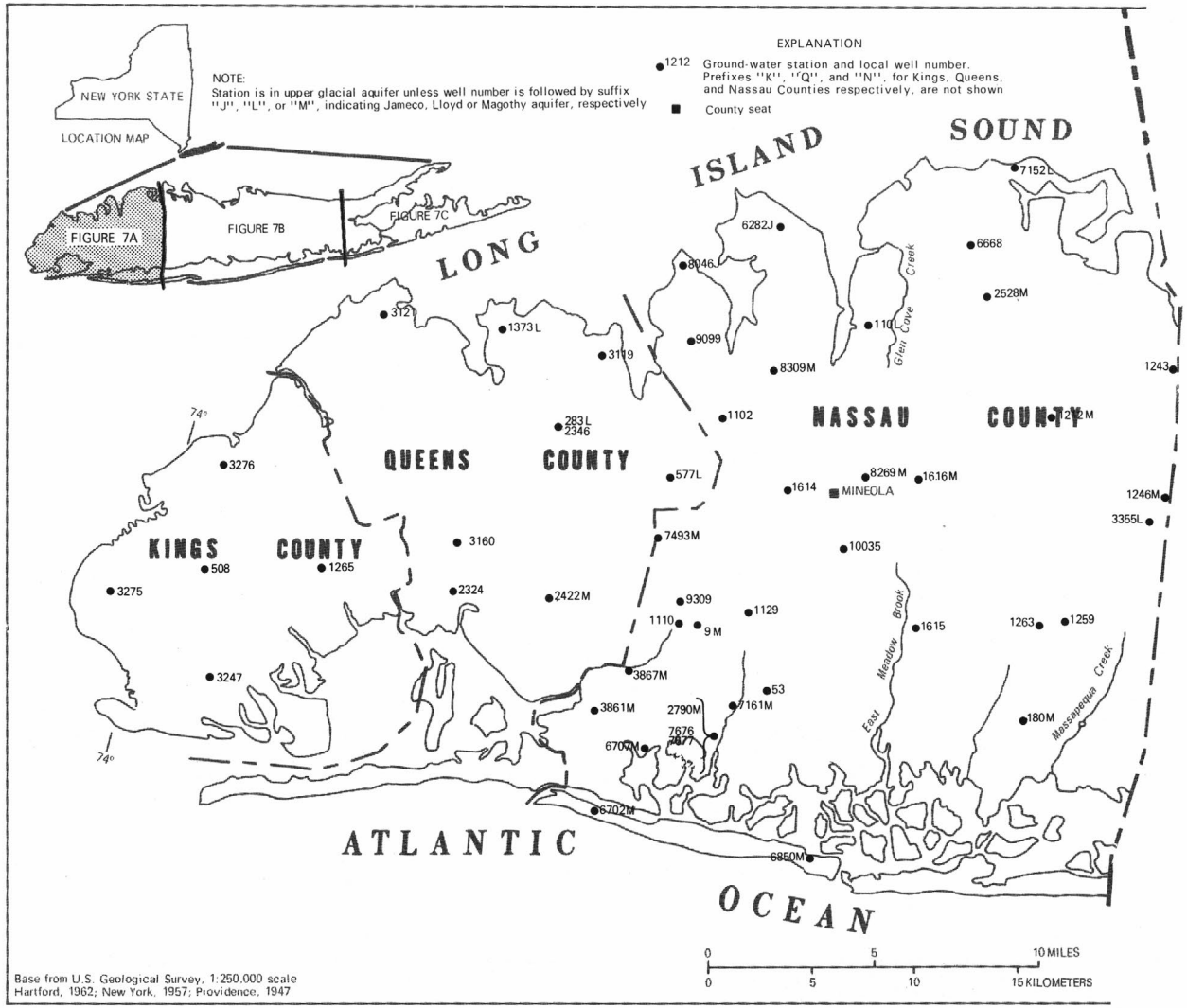


FIGURE 7A.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

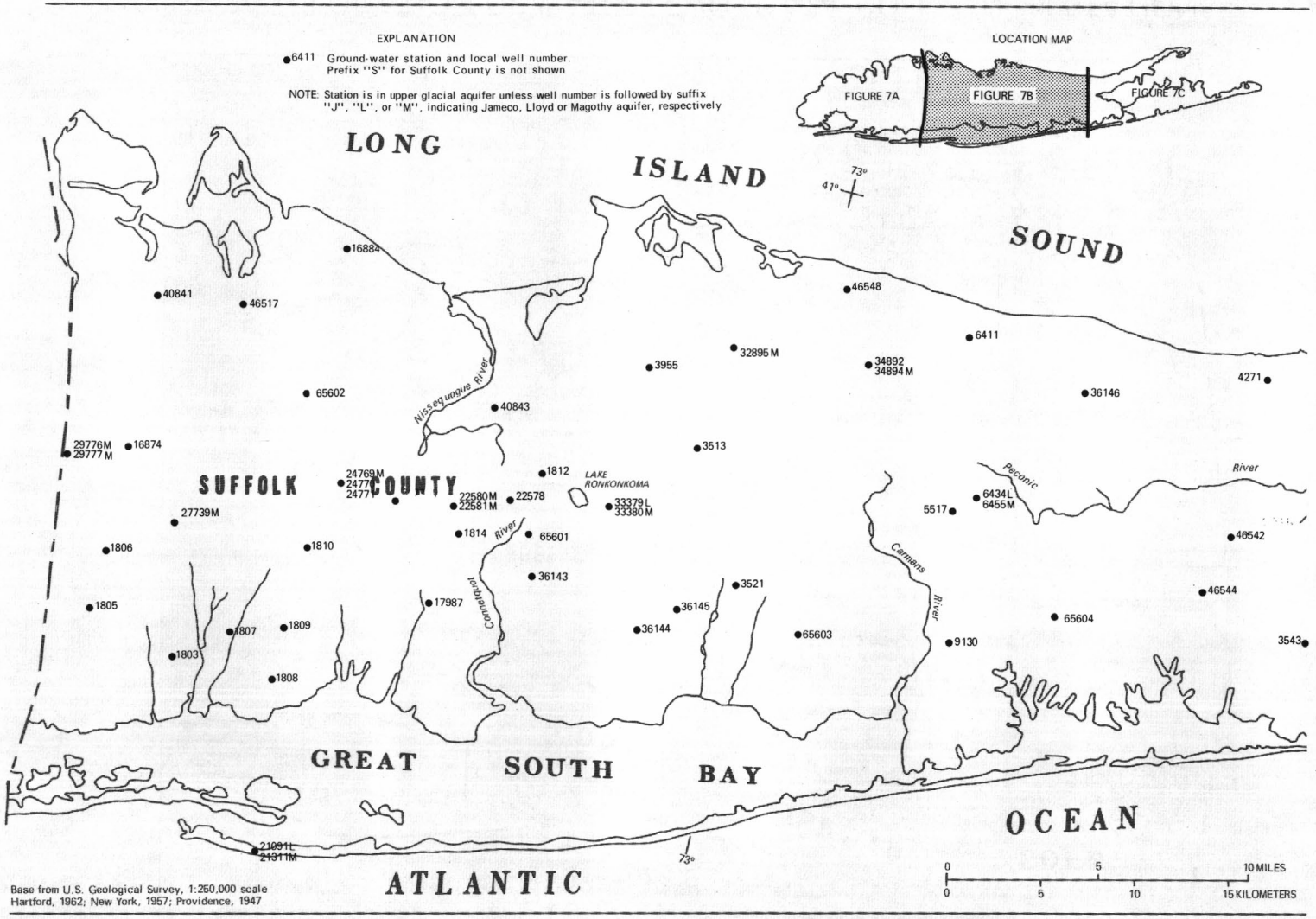


FIGURE 7B.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

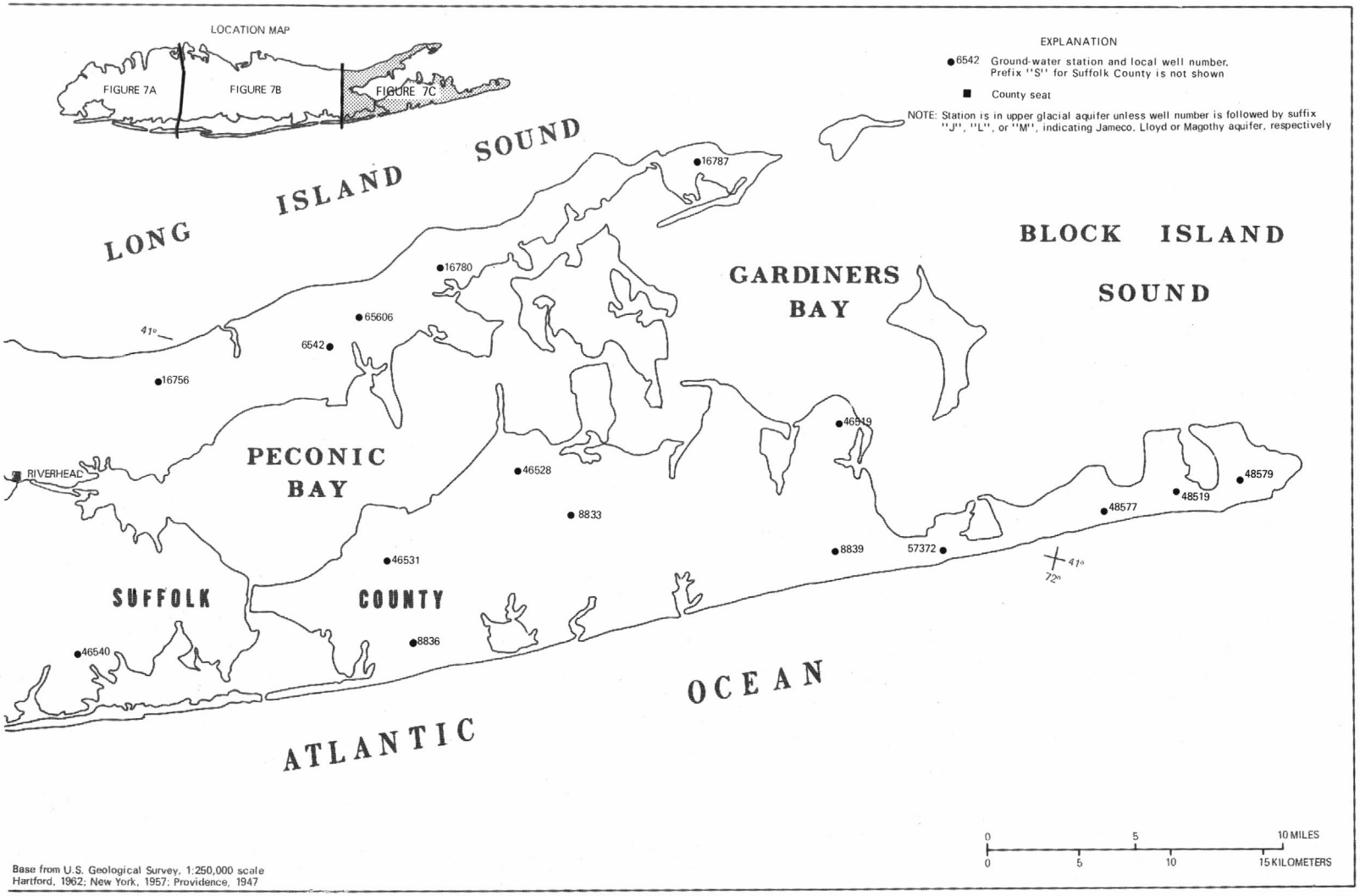


FIGURE 7C.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

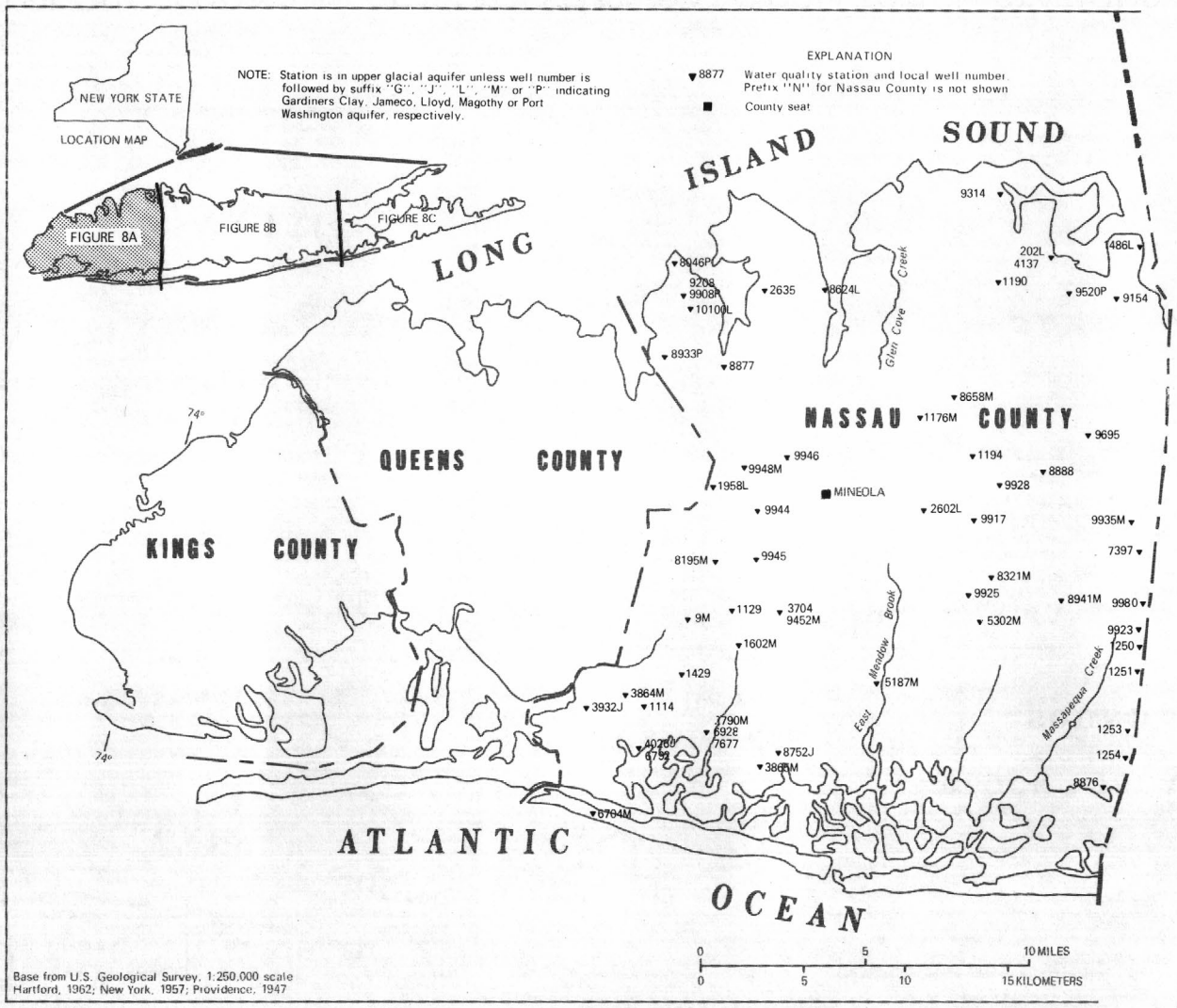


FIGURE 8A.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

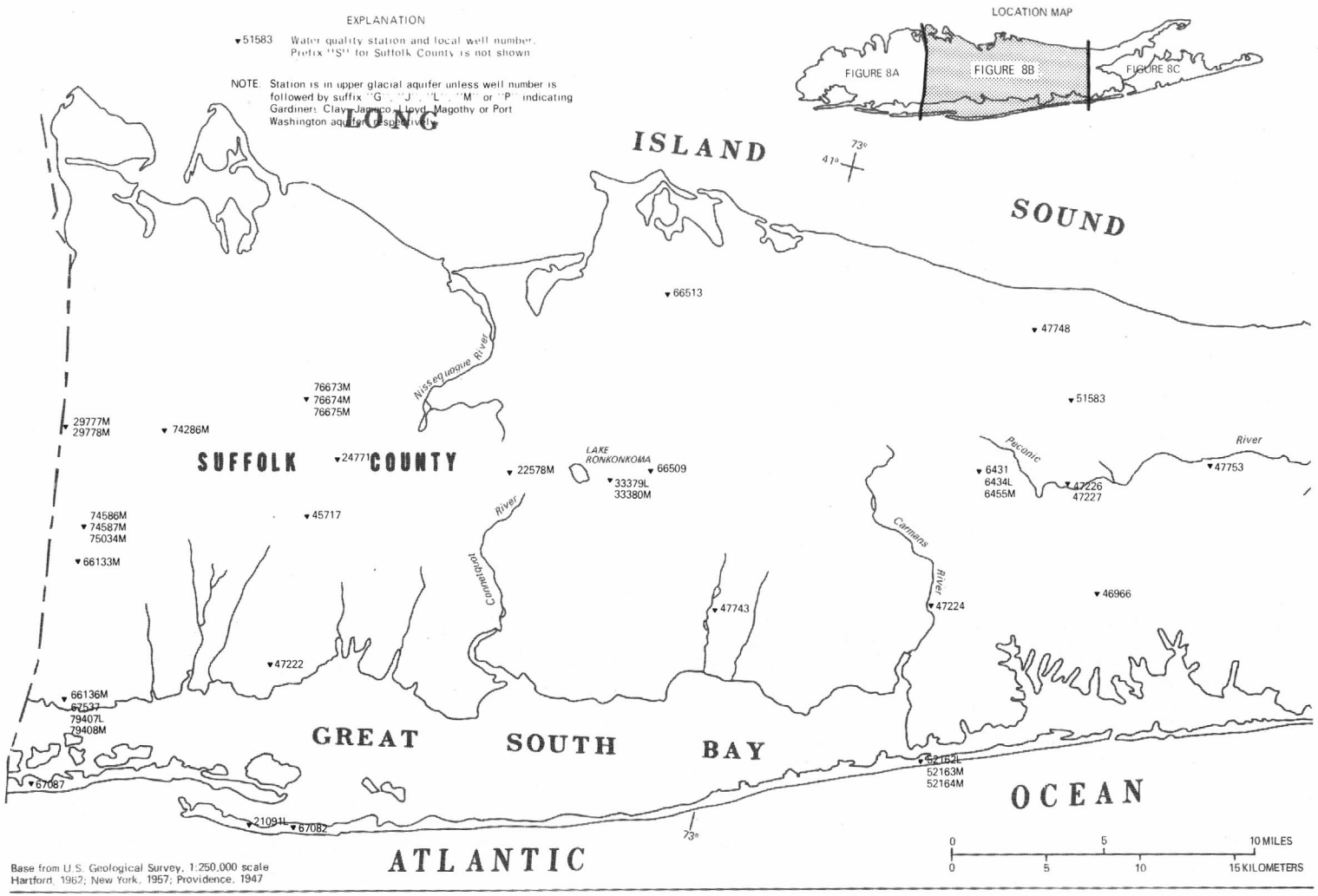


FIGURE 8B.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

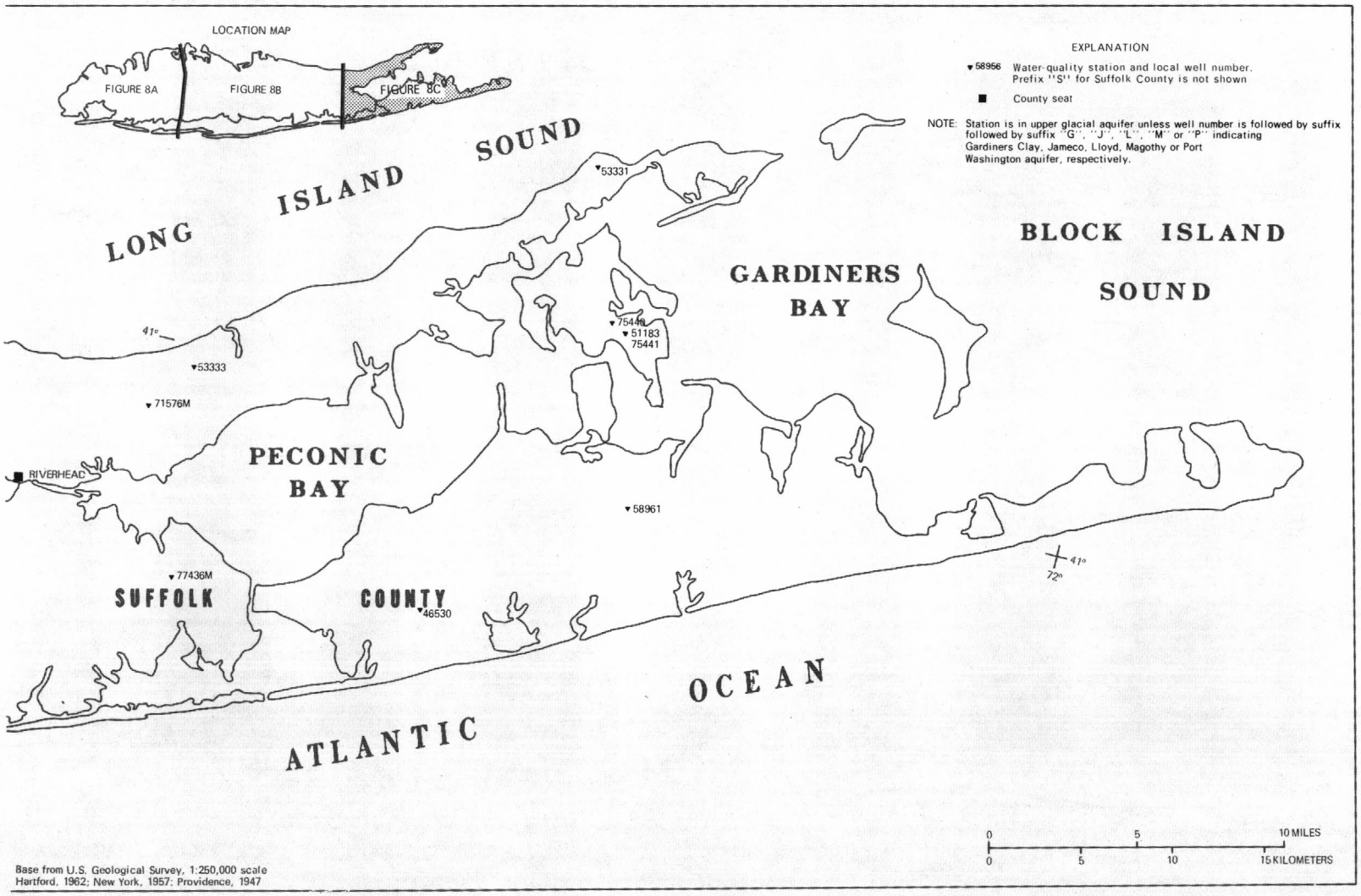


FIGURE 8C.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

01302500 GLEN COVE CREEK AT GLEN COVE, NY

LOCATION.--Lat 40°51'48", long 73°38'05", Nassau County, Hydrologic Unit 02030201, on right bank just downstream from Glen Cove Road, at 8- by 10-foot concrete culvert in Pratt Park, one block west of post office, in Glen Cove. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 11 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as Cedar Swamp Creek.

REVISED RECORDS (WATER YEARS).--WSP 971: 1939-42.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 15.68 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1977, at datum 0.15 ft higher. Prior to June 17, 1965, at datum 0.19 ft higher.

REMARKS.--No estimated daily discharges. Records good except those above 200 ft³/s, which are fair.

AVERAGE DISCHARGE.--48 years, 7.32 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 728 ft³/s, revised, Sept. 12, 1960, gage height, 7.12 ft, from rating curve extended above 110 ft³/s on basis of step-backwater method; minimum, 2.1 ft³/s Oct. 15, 1967; minimum gage height, 0.52 ft Oct. 22, 1959, Oct. 15, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 551 ft³/s Aug. 18, gage height, 5.88 ft from rating curve extended above 110 ft³/s on basis of step-backwater method; minimum, 3.3 ft³/s Mar. 10, gage height, 0.62 ft (result of regulation).

REVISIONS.--The maximum discharge for the water year 1960 has been revised to 728 ft³/s, Sept. 12, 1960, gage height, 7.12 ft, from rating curve extended above 110 ft³/s on basis of step-backwater method.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	4.7	9.3	4.5	5.7	5.4	5.4	5.8	5.6	5.3	6.6	5.1
2	6.4	4.4	11	4.6	9.1	5.0	5.8	5.7	5.9	20	16	5.3
3	11	4.3	6.3	11	6.2	5.3	5.5	5.3	5.9	5.6	10	5.3
4	6.3	5.1	5.8	5.0	9.3	5.5	5.8	4.9	5.9	5.9	6.3	5.3
5	10	29	5.3	13	11	5.5	5.2	5.4	5.9	5.8	5.6	12
6	5.4	6.2	6.9	5.7	7.1	5.5	7.4	6.2	16	5.4	5.4	6.0
7	5.1	6.2	5.2	5.6	6.3	5.4	5.6	6.2	8.8	5.4	11	5.5
8	4.9	5.7	4.9	5.2	6.4	5.1	5.9	5.5	9.1	5.5	11	5.0
9	4.9	5.1	5.0	5.2	5.7	4.7	5.6	5.5	6.5	5.5	5.4	3.8
10	5.1	4.8	5.3	5.2	5.9	5.0	5.6	5.4	6.2	5.4	5.8	3.9
11	4.9	4.8	6.3	5.0	5.9	6.6	5.6	5.0	6.0	5.4	16	3.9
12	4.6	4.9	6.1	4.9	6.0	5.3	5.3	5.3	18	18	6.2	4.0
13	4.7	5.0	6.3	5.0	5.6	18	4.7	5.6	7.5	8.5	5.6	4.7
14	4.9	5.6	5.4	4.9	5.5	24	5.2	5.5	6.6	6.9	5.1	4.7
15	5.1	5.3	4.5	4.9	5.2	16	5.6	5.6	5.9	6.2	5.0	4.8
16	4.8	26	4.9	4.9	4.7	8.7	14	5.6	5.8	5.7	6.5	5.1
17	4.8	35	5.1	4.9	6.3	7.7	26	5.5	5.7	5.4	5.5	4.5
18	4.8	8.7	5.0	4.9	20	7.2	9.0	5.0	5.5	5.5	51	4.5
19	4.7	7.9	4.9	7.2	11	7.0	7.6	5.6	5.6	5.9	10	4.6
20	4.5	7.4	5.0	7.3	17	6.2	6.5	6.0	5.8	5.4	7.6	4.5
21	4.8	6.3	4.7	5.3	17	5.9	12	6.5	5.6	5.3	23	11
22	4.8	17	4.4	5.2	10	5.4	7.3	9.5	5.7	5.4	9.2	4.7
23	4.9	6.9	4.5	5.1	7.9	4.9	15	6.0	5.8	5.3	11	5.4
24	4.9	6.2	4.5	4.9	7.2	5.3	9.5	6.1	6.0	5.2	9.0	5.1
25	5.0	5.8	4.4	7.6	6.8	5.7	7.1	5.6	5.9	5.3	6.5	5.5
26	4.7	14	4.7	55	6.3	5.5	8.2	5.2	5.7	26	5.8	7.0
27	4.6	9.3	5.0	24	6.1	6.1	6.6	5.6	5.4	12	5.5	16
28	4.6	29	4.7	10	5.9	5.3	6.0	5.8	6.0	9.4	7.7	5.2
29	4.5	11	4.4	8.7	---	4.9	6.0	5.6	5.8	7.5	5.1	5.2
30	4.5	8.0	4.7	7.6	---	4.8	5.9	5.4	5.6	7.4	5.0	5.2
31	4.7	---	4.8	6.7	---	5.3	---	10	---	8.2	4.9	---
TOTAL	166.1	299.6	169.3	259.0	227.1	218.2	230.9	181.9	205.7	239.7	294.3	172.8
MEAN	5.36	9.99	5.46	8.35	8.11	7.04	7.70	5.87	6.86	7.73	9.49	5.76
MAX	11	35	11	55	20	24	26	10	18	26	51	16
MIN	4.5	4.3	4.4	4.5	4.7	4.7	4.7	4.9	5.4	5.2	4.9	3.8

CAL YR 1985	TOTAL	2902.4	MEAN	7.95	MAX	65	MIN	4.3
WTR YR 1986	TOTAL	2664.6	MEAN	7.30	MAX	55	MIN	3.8

01302500 GLEN COVE CREEK AT GLEN COVE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV										
21...	1130	6.1	234	7.00	13.5	772	10.1	95	71	35
MAR										
27...	1300	5.3	295	7.07	12.5	762	9.5	89	85	46
MAY										
12...	1355	5.5	309	6.83	14.5	760	9.4	93	80	42
SEP										
03...	0930	4.9	277	6.57	15.5	768	9.7	96	80	42

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV										
21...	18	6.4	16	2.2	36	23	26	<0.10	14	130
MAR										
27...	21	7.9	21	2.1	39	25	38	0.10	15	150
MAY										
12...	20	7.4	19	2.1	38	30	31	<0.10	15	150
SEP										
03...	20	7.3	19	2.1	38	28	30	<0.10	16	150

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV										
21...	--	<0.010	0.120	0.48	4.4	0.020	0.040	620	70	0.10
MAR										
27...	4.29	0.010	0.070	0.43	4.8	0.020	<0.010	560	80	0.07
MAY										
12...	--	<0.010	0.110	0.39	--	<0.020	<0.010	410	50	0.07
SEP										
03...	--	0.020	0.160	0.44	--	<0.040	0.010	1000	80	0.07

01303000 MILL NECK CREEK AT MILL NECK, NY

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, 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. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 11.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1937 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 National Geodetic Vertical Datum of 1929. Prior to June 23, 1965, at datum 0.06 ft higher.

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

AVERAGE DISCHARGE.--49 years, 9.16 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 137 ft³/s Sept. 12, 1960, gage height, 1.60 ft from rating curve extended above 70 ft³/s; maximum gage height, 4.85 ft Sept. 21, 1938 (hurricane wave); minimum discharge, 0.09 ft³/s Dec. 11, 1941 (result of freezeup); 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 (ft³/s)	Gage height (ft)
Nov. 17	0400	*39	*0.80

Date	Time	Discharge (ft³/s)	Gage height (ft)
No other peak greater than base discharge.			

Minimum discharge, 5.0 ft³/s June 25, 26, July 11, gage height, 0.22 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	7.0	11	7.3	8.4	7.3	7.0	6.7	6.8	5.6	6.7	6.1
2	7.3	7.1	11	7.3	9.6	7.3	7.0	6.5	5.9	9.9	7.2	6.0
3	8.8	7.4	8.7	8.8	8.8	7.3	7.0	6.1	5.6	8.8	15	6.3
4	9.0	7.3	8.1	9.2	8.4	7.3	7.1	6.2	5.7	6.9	9.4	6.3
5	9.2	20	8.0	10	10	7.4	7.3	6.3	5.8	6.1	7.2	6.9
6	8.6	15	8.7	9.2	9.4	7.4	8.1	6.4	8.0	5.9	6.3	8.2
7	7.6	10	8.5	7.9	9.0	7.1	8.4	7.0	9.0	5.9	6.9	7.0
8	7.2	8.3	8.0	7.1	8.7	7.8	8.1	6.9	8.1	5.5	9.0	6.4
9	7.0	7.6	7.8	7.0	8.0	7.4	7.6	6.5	7.1	5.4	8.8	6.2
10	7.0	7.3	7.7	7.2	7.7	7.3	7.3	6.4	6.4	5.4	7.0	6.2
11	7.0	7.1	7.9	7.3	8.3	7.7	7.3	6.3	6.0	5.3	10	6.1
12	6.7	7.5	9.0	7.3	8.0	7.3	7.1	6.1	11	7.5	7.6	6.0
13	7.2	7.7	9.3	7.3	7.5	10	7.0	6.3	12	8.3	6.5	5.6
14	7.3	7.8	8.9	7.1	7.3	14	7.0	6.2	8.3	7.6	6.0	5.6
15	7.5	7.7	7.8	6.7	7.5	17	7.0	6.3	7.0	6.6	5.8	5.7
16	7.2	8.5	7.5	6.7	7.3	12	8.1	6.5	6.4	6.0	5.8	5.7
17	6.9	29	7.3	7.0	7.7	9.4	14	6.7	5.7	5.9	6.1	5.6
18	7.0	15	7.2	7.2	11	8.3	12	6.6	5.6	5.8	22	5.8
19	7.1	10	7.0	8.0	13	8.3	9.2	6.3	5.6	5.9	12	6.0
20	6.9	8.9	7.0	9.0	13	7.4	8.0	6.1	5.8	5.8	8.5	6.3
21	7.0	7.9	7.3	8.1	12	7.1	8.6	6.7	5.6	5.7	8.6	7.0
22	7.0	9.7	7.3	7.6	12	7.2	9.4	8.3	5.7	5.6	13	6.9
23	7.0	11	7.6	7.2	9.6	7.3	9.1	8.1	5.6	5.5	9.0	6.7
24	7.1	9.3	7.7	7.0	8.6	7.1	9.1	7.1	5.5	5.4	8.9	6.6
25	7.1	8.2	7.6	7.4	8.1	7.1	8.1	6.6	5.3	5.4	7.1	6.3
26	7.0	9.3	7.2	21	7.7	7.1	8.1	6.2	5.3	7.5	6.5	6.7
27	7.2	11	7.0	23	7.7	7.2	8.3	6.1	5.5	12	6.4	9.7
28	6.6	15	7.2	15	7.3	7.6	7.8	5.9	6.2	8.6	6.8	8.7
29	6.6	16	7.3	13	---	7.3	7.4	5.9	5.9	7.6	6.7	7.2
30	6.7	12	7.1	10	---	7.1	6.9	5.8	5.7	7.1	6.3	6.7
31	6.9	---	7.1	8.9	---	6.9	---	6.1	---	7.0	6.3	---
TOTAL	226.4	315.6	246.8	282.8	251.6	254.0	244.4	201.2	198.1	207.5	259.4	196.5
MEAN	7.30	10.5	7.96	9.12	8.99	8.19	8.15	6.49	6.60	6.69	8.37	6.55
MAX	9.2	29	11	23	13	17	14	8.3	12	12	22	9.7
MIN	6.6	7.0	7.0	6.7	7.3	6.9	6.9	5.8	5.3	5.3	5.8	5.6

CAL YR 1985	TOTAL	3487.0	MEAN	9.55	MAX	36	MIN	6.6
WTR YR 1986	TOTAL	2884.3	MEAN	7.90	MAX	29	MIN	5.3

01303000 MILL NECK CREEK AT MILL NECK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV										
21...	1030	8.0	145	7.30	13.5	772	10.0	94	41	20
MAR										
27...	1115	7.0	158	8.85	13.0	762	10.8	103	44	21
MAY										
12...	1150	6.0	161	7.96	20.5	760	9.3	104	47	15
SEP										
03...	0830	6.3	125	7.84	20.5	766	8.4	93	42	18

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV										
21...	10	4.0	11	1.9	21	19	17	<0.10	8.1	84
MAR										
27...	10	4.5	13	1.3	23	16	20	0.10	5.5	84
MAY										
12...	11	4.7	13	1.5	32	19	19	<0.10	5.9	93
SEP										
03...	10	4.1	9.9	1.4	24	18	13	<0.10	5.6	76

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV										
21...	0.990	0.010	0.040	0.56	1.6	0.030	0.020	440	30	0.06
MAR										
27...	1.09	0.010	0.030	0.67	1.8	0.030	<0.010	340	40	0.05
MAY										
12...	--	<0.010	0.050	0.95	--	<0.070	<0.020	1000	100	0.06
SEP										
03...	--	0.010	0.030	2.7	--	<0.130	0.040	510	60	0.08

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, NY

LOCATION.--Lat 40°51'26", long 73°27'50", Nassau County, Hydrologic Unit 02030201, on left bank 270 ft upstream from State Highway 25A, at Cold Spring Harbor State Fish Hatchery, and 1.0 mi southwest of village of Cold Spring Harbor.

DRAINAGE AREA.--About 7.3 mi².

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WDR NY-81-2: 1954 (M), 1958 (M), 1962-63 (M), 1971 (M), 1978-79, 1980 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.38 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharge: Feb. 5 to Mar. 7. Records good except those above 100 ft³/s, which are fair. Flow occasionally regulated at outlet of pond 40 ft above station. Diversion from this pond by New York State Fish Hatchery bypasses station, except during the 1979 water year. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--35 years (1951-78, 80-86), 2.69 ft³/s (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s Jan. 21, 1979, gage height, 1.99 ft (result of regulation), from rating curve extended above 80 ft³/s; maximum gage height, 5.34 ft Aug. 31, 1954 (backwater from high tide), from high-water mark; minimum discharge, 0.20 ft³/s Jan. 24-27, 1967, gage height, 0.07 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s Nov. 17, gage height, 0.54 ft; maximum gage height, 1.64 ft Dec. 13 (backwater from high tide); minimum discharge 0.32 ft³/s June 17, gage height, 0.09 ft (result of regulation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.2	4.0	2.7	2.8	2.5	2.4	2.2	1.8	1.4	2.2	1.2
2	2.9	3.2	3.9	2.6	2.8	2.5	2.4	2.1	1.8	2.7	1.9	1.1
3	3.6	3.2	3.2	3.1	2.8	2.5	2.4	1.9	1.6	2.6	3.0	1.1
4	3.5	3.2	3.0	3.3	2.8	2.5	2.4	2.0	1.6	2.0	2.5	1.3
5	3.8	7.8	3.0	3.6	3.5	2.5	2.5	2.0	1.6	1.7	1.9	1.4
6	3.9	5.4	3.2	3.3	3.0	2.5	2.7	2.0	2.3	1.6	1.6	1.8
7	3.2	3.9	3.1	2.8	2.9	2.4	2.8	2.0	2.6	1.7	1.6	1.4
8	2.9	3.4	3.0	2.6	2.8	2.4	2.6	2.0	2.4	1.4	1.6	1.2
9	2.9	3.2	2.8	2.6	2.7	2.4	3.0	2.4	2.2	1.5	1.6	1.1
10	3.0	3.0	2.8	2.6	2.7	2.4	2.7	3.5	1.9	1.5	1.4	1.1
11	3.0	3.0	3.0	2.6	2.8	2.7	2.4	2.6	1.8	1.5	2.1	1.1
12	2.9	3.2	3.2	2.6	2.7	2.6	2.4	2.4	2.2	2.5	1.7	1.1
13	3.0	3.2	3.0	2.6	2.6	3.1	2.4	2.4	2.7	3.0	1.3	1.0
14	3.0	3.2	3.0	2.6	2.5	4.1	2.3	2.4	2.2	2.5	1.3	.98
15	3.2	3.2	2.8	2.4	2.5	5.3	2.3	2.4	1.9	2.0	1.2	.98
16	3.0	3.5	2.8	2.4	2.4	3.9	2.5	2.4	3.2	1.7	1.3	1.1
17	3.1	9.1	2.8	2.4	2.4	3.0	4.3	2.4	1.6	1.6	1.4	.98
18	3.1	4.8	2.8	2.5	3.5	2.7	4.2	2.4	.57	1.6	7.0	.99
19	3.2	4.1	2.6	2.6	4.5	2.7	3.0	2.4	1.1	1.6	4.0	1.1
20	3.2	3.7	2.6	2.8	4.5	2.5	2.6	2.4	1.7	1.4	2.4	1.1
21	3.2	3.4	2.8	2.8	4.0	2.3	2.5	2.4	1.6	1.4	2.1	1.3
22	3.0	3.9	2.8	2.8	4.0	2.4	2.8	2.4	1.6	1.5	3.2	1.3
23	3.1	4.4	2.9	2.6	3.0	2.4	2.8	2.6	1.6	1.5	2.3	1.3
24	3.2	3.8	3.0	2.6	2.8	2.4	3.0	2.6	1.4	1.3	2.2	1.3
25	3.2	3.5	2.9	2.6	2.7	2.4	2.6	2.4	1.4	1.3	1.6	1.3
26	3.2	3.8	2.8	4.8	2.6	2.4	2.6	2.2	1.4	1.5	1.4	1.4
27	3.1	4.2	2.8	5.7	2.6	2.5	2.8	2.2	1.5	2.6	1.3	2.0
28	3.0	4.8	2.8	4.2	2.5	2.6	2.6	2.0	1.6	2.1	1.4	1.9
29	3.0	5.4	2.8	3.5	---	2.5	2.4	2.0	1.6	1.8	1.3	1.5
30	3.1	4.2	2.7	3.0	---	2.4	2.3	1.8	1.4	2.0	1.4	1.4
31	3.1	---	2.6	2.8	---	2.4	---	1.8	---	3.0	1.4	---
TOTAL	97.3	121.9	91.5	92.1	83.4	83.9	80.7	70.7	53.87	57.5	62.6	37.83
MEAN	3.14	4.06	2.95	2.97	2.98	2.71	2.69	2.28	1.80	1.85	2.02	1.26
MAX	3.9	9.1	4.0	5.7	4.5	5.3	4.3	3.5	3.2	3.0	7.0	2.0
MIN	2.7	3.0	2.6	2.4	2.4	2.3	2.3	1.8	.57	1.3	1.2	.98

CAL YR 1985	TOTAL	1516.5	MEAN	4.15	MAX	11	MIN	1.9
WTR YR 1986	TOTAL	933.30	MEAN	2.56	MAX	9.1	MIN	.57

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY

(National stream-quality accounting network station)

LOCATION.--Lat 40°50'58", long 73°13'29", Suffolk County, 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. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 27 mi².

WATER-DISCHARGE 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 National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--43 years, 42.0 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 952 ft³/s Jan. 22, 1979, gage height, 3.22 ft (result of dam failure), from rating curve extended above 600 ft³/s; minimum, 16 ft³/s June 5, 6, 1967, minimum gage height, 0.46 ft Feb. 9, 1951; minimum daily, 19 ft³/s June 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 102 ft³/s July 27, gage height, 1.05 ft; minimum, 27 ft³/s July 10-12, 25, 26, Aug. 26, 27, gage height, 0.57 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	33	46	38	37	40	40	37	32	29	54	31
2	37	34	46	38	40	40	39	37	31	36	46	31
3	39	35	42	43	40	38	37	36	30	36	65	32
4	39	34	41	46	40	38	37	36	31	33	52	32
5	40	54	40	41	42	38	37	36	31	32	44	33
6	41	50	41	39	41	39	39	36	36	31	40	35
7	39	42	40	43	41	38	40	36	39	31	38	33
8	37	38	40	45	41	38	40	36	39	29	37	32
9	37	37	40	41	41	38	39	35	36	28	36	31
10	36	36	39	39	41	38	38	35	35	28	35	31
11	36	35	38	38	41	39	38	33	35	27	40	31
12	36	35	39	38	39	38	38	33	36	31	38	31
13	36	35	39	37	38	43	37	34	36	33	37	30
14	36	35	40	37	38	53	37	34	34	33	35	30
15	36	35	39	37	38	64	37	34	33	31	34	30
16	36	37	38	36	38	56	38	35	33	30	33	30
17	35	59	38	36	38	48	44	35	32	30	33	30
18	34	51	38	37	43	44	43	34	31	29	37	30
19	31	45	38	38	48	44	40	33	31	32	36	30
20	32	42	38	40	48	41	38	33	32	31	35	30
21	32	40	38	38	49	41	39	34	31	30	37	31
22	34	42	38	38	49	40	39	35	31	29	42	31
23	37	45	38	37	46	40	40	34	31	28	42	31
24	36	43	39	37	43	39	41	33	30	28	41	31
25	36	41	39	37	41	39	40	34	30	28	31	31
26	36	43	38	39	40	40	38	34	30	32	28	31
27	35	47	38	44	40	40	39	33	30	95	28	32
28	34	53	38	42	40	40	38	33	30	69	30	32
29	32	56	38	40	---	40	38	32	30	58	31	31
30	33	49	38	39	---	40	37	32	30	71	31	31
31	33	---	38	38	---	40	---	31	---	68	31	---
TOTAL	1108	1261	1220	1216	1161	1294	1165	1063	976	1156	1177	935
MEAN	35.7	42.0	39.4	39.2	41.5	41.7	38.8	34.3	32.5	37.3	38.0	31.2
MAX	41	59	46	46	49	64	44	37	39	95	65	35
MIN	31	33	38	36	37	38	37	31	30	27	28	30

CAL YR 1985	TOTAL	15692	MEAN	43.0	MAX	73	MIN	24
WTR YR 1986	TOTAL	13732	MEAN	37.6	MAX	95	MIN	27

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1967 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1978 to September 1981.
WATER TEMPERATURES: January 1978 to September 1981.

COOPERATION.--Some water-quality analyses for this station were collected and analyzed by Suffolk County Department of Health Services. They are identified in the table by an asterisk (*).

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
DEC												
* 09...	1400	40	100	5.00	6.0	--	--	7.8	--	--	--	24
31...	1345	38	104	6.30	5.5	0.60	755	14.1	113	K5	K8	29
MAR												
* 17...	1400	46	105	5.40	10.0	--	--	7.8	--	--	--	28
JUN												
03...	1230	30	114	6.55	19.5	1.7	770	8.5	91	K2	K5	31
* 11...	1400	35	100	6.10	19.0	--	--	6.6	--	--	--	26
JUL												
08...	1200	28	113	6.83	21.5	1.5	761	7.7	87	--	--	27
AUG												
26...	1315	28	118	6.60	20.5	1.1	764	8.2	91	--	25	26
SEP												
* 08...	1405	32	--	5.90	18.0	--	--	7.4	--	--	--	32

K Results based on colony count outside the acceptable range (non-ideal count).

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
DEC												
09...	18	6.1	2.2	9.5	1.5	6	--	7.8	14	0.50	--	--
31...	10	7.1	2.7	12	1.5	19	12	10	17	<0.10	8.7	75
MAR												
17...	17	7.0	2.6	14	1.4	12	--	8.6	18	0.50	--	--
JUN												
03...	13	7.5	2.9	9.2	1.0	--	18	8.8	17	<0.10	11	71
11...	10	6.4	2.4	10	1.1	16	--	8.0	15	--	--	--
JUL												
08...	7	6.6	2.5	11	1.2	--	20	8.5	12	0.10	8.3	68
AUG												
26...	9	6.6	2.4	12	1.4	24	17	10	16	<0.10	7.4	68
SEP												
08...	20	8.0	3.0	12	1.2	12	--	9.8	17	0.50	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)
DEC											
09...	--	2.30	0.010	--	0.120	0.0	0.10	0.013	0.010	0.002	--
31...	78	--	--	--	0.050	0.35	0.40	0.010	<0.010	<0.010	10
MAR											
17...	--	2.00	0.014	--	0.030	0.07	0.10	0.003	0.002	0.004	--
JUN											
03...	68	--	--	--	0.060	0.24	0.30	0.020	0.010	<0.010	--
11...	--	1.40	0.018	--	0.100	0.70	0.80	0.026	0.018	0.007	--
JUL											
08...	63	--	--	--	0.060	0.54	0.60	0.030	0.020	<0.010	<10
AUG											
26...	66	--	0.050	<0.100	0.060	0.34	0.40	<0.040	0.010	<0.010	20
SEP											
08...	--	2.00	0.010	--	0.050	0.25	0.30	0.020	0.007	0.003	--

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
DEC											
09...	--	--	--	--	--	--	--	100	100	--	--
31...	<1	22	<0.5	<1	<1	<3	3	--	63	<1	<4
MAR											
17...	--	--	--	--	--	--	--	200	200	--	--
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	200	100	--	--
JUL											
08...	<1	17	<0.5	<1	<1	<3	2	--	45	<5	<4
AUG											
26...	<1	20	<0.5	<1	5	<3	1	--	41	<5	<4
SEP											
08...	--	--	--	--	--	--	--	100	100	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC											
09...	<20	--	--	--	--	--	--	--	--	--	0.02
31...	--	46	<0.1	<10	7	<1	<1	57	<6	29	--
MAR											
17...	20	--	--	--	--	--	--	--	--	--	0.02
JUN											
03...	--	--	<0.1	--	--	--	--	--	--	--	--
11...	120	--	--	--	--	--	--	--	--	--	0.03
JUL											
08...	--	170	<0.1	<10	5	<1	<1	51	<6	52	--
AUG											
26...	--	55	<0.1	<10	1	<1	<1	47	<6	14	--
SEP											
08...	100	--	--	--	--	--	--	--	--	--	0.02

01304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, NY--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN 062 MM
DEC					
31...	1345	38	2	0.21	75
JUN					
03...	1230	30	3	0.24	45
JUL					
08...	1200	28	3	0.23	83
AUG					
26...	1315	28	2	0.15	86

01304500 PECONIC RIVER AT RIVERHEAD, NY

LOCATION.--Lat 40°54'49", long 72°41'14", Suffolk County, Hydrologic Unit 02030202, on right bank 200 ft downstream from Long Island Lighting Co. dam, 0.4 mi west of Riverhead, and 1.2 mi upstream from outlet of Sweezy Pond. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 75 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.54 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by ponds above station.

AVERAGE DISCHARGE.--44 years, 37.0 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s Jan. 30, 1978, gage height, 1.20 ft (result of regulation); maximum gage height, 2.09 ft Mar. 29, 1984 (backwater from high tide); minimum discharge, 1.4 ft³/s Jan. 9, 1966, Jan. 31, 1967, Dec. 6, 1969, Jan. 27, 1972, Dec. 10, 11, 1977; minimum gage height, 0.10 ft Jan. 31, 1967 (result of freezeup), Dec. 6, 1969, Jan. 27, 1972 (result of freezeup); minimum daily, 3.7 ft³/s Aug. 2, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83 ft³/s Mar. 19, gage height, 0.76 ft; minimum 9.1 ft³/s Mar. 8 (result of freezeup), June 25, 26, gage height, 0.27 ft; minimum daily, 10 ft³/s June 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	17	31	20	25	30	27	28	19	12	15	18
2	21	18	31	20	26	28	35	28	15	16	15	17
3	21	19	29	23	26	28	29	25	16	21	23	17
4	22	19	28	26	26	28	25	20	17	21	23	17
5	22	22	27	27	31	28	29	25	17	14	22	16
6	23	26	27	26	32	27	41	22	19	13	20	16
7	22	26	28	24	31	28	34	25	22	12	18	16
8	21	24	28	23	31	23	37	26	22	12	18	15
9	21	23	26	22	29	25	37	23	22	12	17	14
10	21	23	26	21	27	26	34	23	21	12	17	14
11	21	21	26	21	27	28	28	22	20	11	18	14
12	25	20	26	21	27	28	34	21	19	13	17	14
13	24	20	24	20	26	32	31	21	20	15	16	13
14	22	21	23	20	24	38	30	21	20	17	16	13
15	22	20	23	18	24	52	29	19	20	15	16	13
16	21	20	22	18	24	51	28	20	20	14	16	13
17	21	28	22	18	24	49	30	23	19	13	16	13
18	20	28	22	19	25	47	31	23	18	13	17	13
19	21	28	21	20	27	58	31	22	17	14	18	13
20	20	28	21	22	30	47	30	21	16	14	17	13
21	16	30	21	23	32	42	30	22	16	14	17	14
22	15	31	21	23	35	38	28	23	16	13	20	14
23	15	32	21	23	34	37	26	23	14	13	19	15
24	15	31	21	23	34	38	32	22	11	13	19	15
25	15	28	21	23	34	37	31	22	10	13	17	15
26	18	29	21	25	32	37	28	21	15	13	17	14
27	20	31	20	30	31	35	28	21	16	16	17	14
28	18	33	20	28	30	34	28	21	11	16	18	15
29	17	35	20	26	---	34	25	19	13	16	19	15
30	15	32	20	26	---	39	23	19	13	15	19	15
31	16	---	20	26	---	32	---	19	---	15	19	---
TOTAL	613	763	737	705	804	1104	909	690	514	441	556	438
MEAN	19.8	25.4	23.8	22.7	28.7	35.6	30.3	22.3	17.1	14.2	17.9	14.6
MAX	25	35	31	30	35	58	41	28	22	21	23	18
MIN	15	17	20	18	24	23	23	19	10	11	15	13

CAL YR 1985	TOTAL	11199	MEAN	30.7	MAX	51	MIN	15
WTR YR 1986	TOTAL	8274	MEAN	22.7	MAX	58	MIN	10

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1975 to September 1980.
WATER TEMPERATURES: June 1975 to September 1980.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
09...	0905	27	95	5.20	4.0	4.8	8.4	2.6	9.5	2.5	9
MAR											
17...	0900	49	85	5.80	9.0	6.1	7.4	2.3	8.6	2.0	10
JUN											
11...	0900	21	105	6.30	21.0	5.9	7.8	2.4	9.0	1.4	15
SEP											
08...	0810	15	100	6.40	20.0	6.9	8.0	2.5	9.0	1.4	19

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
09...	16	15	0.50	0.460	0.450	0.011	0.014	0.200	0.220	0.30
MAR										
17...	15	14	0.50	0.260	0.290	0.008	0.018	0.030	0.040	0.05
JUN										
11...	14	15	--	0.190	0.220	0.015	0.014	0.130	0.110	0.80
SEP										
08...	12	14	0.50	0.110	0.080	0.003	0.005	0.040	0.040	0.30

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
09...	0.30	0.062	0.073	0.051	0.047	500	600	110	--	0.02
MAR										
17...	0.04	--	--	--	--	400	400	70	--	0.02
JUN										
11...	0.70	0.080	0.067	0.039	0.038	500	400	80	--	0.02
SEP										
08...	0.30	0.052	0.046	0.025	0.023	400	300	50	--	0.02

01305000 CARMANS RIVER AT YAPHANK, NY

(National stream-quality accounting network station)

LOCATION. --Lat 40°49'49", long 72°54'24", Suffolk County, Hydrologic Unit 02030202, on left bank 50 ft upstream from Long Island Railroad bridge, 0.6 mi northeast of Yaphank Station, and 0.7 mi southeast of Yaphank. Water-quality sampling site at discharge station.

DRAINAGE AREA. --About 71 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. --June 1942 to current year.

REVISED RECORDS. --WSP 1141: Drainage area.

GAGE. --Water-stage recorder and concrete control. Datum of gage is 17.95 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 2, 1967, at same site at datum 1.00 ft higher.

REMARKS. --No estimated daily discharges. Records good. Some regulation by two lakes above station.

AVERAGE DISCHARGE. --44 years, 24.2 ft³/s.

EXTREMES FOR PERIOD OF RECORD. --Maximum discharge, 110 ft³/s Jan. 26, 1978, gage height, 1.93 ft; minimum, 2.8 ft³/s Feb. 24, 1967, gage height, 0.73 ft; minimum daily, 6.2 ft³/s Feb. 28, Mar. 3, 1967 (result of temporary construction upstream).

EXTREMES FOR CURRENT YEAR. --Maximum discharge, 49 ft³/s June 22, gage height, 1.54 ft (result of regulation); minimum, 7.0 ft³/s June 23, gage height, 0.87 ft (result of regulation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	19	22	19	19	20	20	19	17	16	17	16
2	20	19	22	19	20	20	21	20	17	21	16	17
3	21	19	20	22	20	19	22	19	17	19	26	17
4	21	19	20	22	19	19	21	19	17	17	21	17
5	22	26	20	22	21	19	22	19	17	17	19	17
6	22	25	20	20	20	19	22	19	18	16	18	18
7	21	22	20	19	20	20	22	19	19	16	18	17
8	20	20	20	18	19	18	23	19	19	16	18	16
9	20	20	20	19	19	19	22	19	18	16	17	16
10	20	19	19	19	19	19	22	19	17	16	17	16
11	20	19	19	19	19	20	21	18	17	16	18	16
12	19	19	20	18	19	19	21	18	18	17	17	16
13	20	19	20	19	19	23	20	18	19	18	17	16
14	20	19	20	18	18	27	20	18	18	18	17	16
15	20	19	19	18	19	30	20	18	18	17	17	16
16	20	20	19	18	18	24	20	18	17	16	17	16
17	19	30	19	18	19	22	23	19	17	16	17	15
18	19	24	19	18	21	22	22	18	17	16	21	16
19	19	22	19	19	22	22	21	18	17	16	20	16
20	19	21	19	20	22	22	19	19	17	16	18	16
21	19	20	19	19	23	21	18	19	17	16	19	16
22	19	22	19	18	23	21	19	20	24	16	21	16
23	19	23	19	18	21	21	20	19	20	15	19	16
24	19	21	19	18	20	21	21	18	11	15	19	16
25	20	20	19	18	19	21	24	18	15	15	17	16
26	19	21	19	21	19	21	22	18	16	15	17	16
27	19	23	18	25	20	22	21	18	16	22	17	16
28	19	24	19	22	20	22	20	18	17	18	18	18
29	19	25	18	20	---	18	20	17	17	17	17	20
30	19	22	18	20	---	23	20	17	16	18	17	20
31	19	---	18	19	---	21	---	17	---	17	17	---
TOTAL	611	641	601	602	557	655	629	572	520	520	564	496
MEAN	19.7	21.4	19.4	19.4	19.9	21.1	21.0	18.5	17.3	16.8	18.2	16.5
MAX	22	30	22	25	23	30	24	20	24	22	26	20
MIN	19	19	18	18	18	18	18	17	11	15	16	15

CAL YR 1985	TOTAL	9260	MEAN	25.4	MAX	42	MIN	17
WTR YR 1986	TOTAL	6968	MEAN	19.1	MAX	30	MIN	11

01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--December 1979 to September 1981.
WATER TEMPERATURES.--December 1979 to September 1981.

COOPERATION.--Some water-quality analyses for this station were collected and analyzed by Suffolk County Department of Health Services. They are identified in the table by an asterisk (*).

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS. / 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
DEC												
* 09...	1010	20	95	5.20	6.0	--	--	7.2	--	--	--	33
31...	0945	18	105	6.50	4.5	1.5	761	10.9	85	K6	K9	33
MAR												
* 17...	1000	23	100	5.30	9.0	--	--	6.8	--	--	--	29
JUN												
03...	0945	17	113	6.70	18.5	1.5	769	11.1	--	K3	K4	25
* 11...	1000	17	100	--	18.0	--	--	6.9	--	--	--	32
JUL												
09...	0905	16	119	7.06	22.5	1.5	754	7.7	90	--	--	33
AUG												
26...	1030	17	97	6.17	19.0	0.50	765	8.8	95	--	28	30
SEP												
* 08...	0905	16	--	--	15.0	--	--	7.1	--	--	--	32

K Results based on colony count outside the acceptable range (non-ideal count).

01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
DEC												
09...	22	8.4	3.0	9.5	1.6	11	--	14	15	0.50	--	--
31...	17	8.1	3.2	9.7	1.2	16	14	11	14	<0.10	13	74
MAR												
17...	16	7.2	2.6	9.0	1.2	12	--	12	13	0.50	--	--
JUN												
03...	6	6.2	2.4	11	1.3	--	19	14	13	<0.10	5.7	75
11...	17	8.0	3.0	8.8	1.0	16	--	13	14	--	--	--
JUL												
09...	14	7.9	3.1	9.1	1.0	--	19	13	11	0.10	10	72
AUG												
26...	2	7.3	2.8	9.1	1.1	--	28	13	13	<0.10	9.4	71
SEP												
08...	14	8.0	3.0	9.0	1.4	18	--	13	14	0.50	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)
DEC											
09...	--	1.40	0.005	--	0.070	0.03	0.10	0.025	0.023	0.008	--
31...	70	--	--	--	0.030	0.17	0.20	0.010	<0.010	<0.010	10
MAR											
17...	--	1.05	0.007	--	0.040	0.06	0.10	0.006	0.008	0.003	--
JUN											
03...	65	--	--	--	0.040	0.26	0.30	0.020	0.010	<0.010	--
11...	--	0.930	0.012	--	0.090	0.11	0.20	0.016	0.015	0.009	--
JUL											
09...	67	--	--	--	0.050	0.35	0.40	0.020	0.020	<0.010	<10
AUG											
26...	73	--	0.050	<0.100	0.040	0.26	0.30	<0.030	<0.010	<0.010	<10
SEP											
08...	--	0.880	0.004	--	0.030	0.07	0.10	0.018	0.018	0.004	--

01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
DEC											
09...	--	--	--	--	--	--	--	200	200	--	--
31...	<1	24	<0.5	<1	1	<3	1	--	95	<1	<4
MAR											
17...	--	--	--	--	--	--	--	300	200	--	--
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	300	200	--	--
JUL											
09...	<1	21	<0.5	<1	<1	<3	13	--	150	<5	<4
AUG											
26...	<1	16	<0.5	<1	2	<3	1	--	150	<5	<4
SEP											
08...	--	--	--	--	--	--	--	300	200	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC											
09...	70	--	--	--	--	--	--	--	--	--	0.02
31...	--	65	0.7	<10	<1	<1	<1	39	<6	24	--
MAR											
17...	60	--	--	--	--	--	--	--	--	--	0.02
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	70	--	--	--	--	--	--	--	--	--	0.03
JUL											
09...	--	71	<0.1	<10	79	<1	<1	39	<6	8	--
AUG											
26...	--	51	<0.1	<10	1	<1	<1	34	<6	16	--
SEP											
08...	80	--	--	--	--	--	--	--	--	--	0.02

01305000 CARMANS RIVER AT YAPHANK, NY--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC					
31...	0945	18	4	0.19	66
JUN					
03...	0945	17	3	0.14	59
JUL					
09...	0905	16	3	0.13	78
AUG					
26...	1030	17	2	0.09	76

01305500 SWAN RIVER AT EAST PATCHOGUE, NY

LOCATION.--Lat 40°46'01", long 72°59'39", Suffolk County, Hydrologic Unit 02030202, on left bank 94 ft downstream from Montauk Highway in East Patchogue, 200 ft downstream from outlet of Swan Lake, and 1.2 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 8.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1622: Drainage area. WDR NY-81-2: 1952-77 (M), 1978, 1979-80 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2.84 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated occasionally at outlet of Swan Lake.

AVERAGE DISCHARGE.--40 years, 12.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft³/s June 5, 1982, gage height, 2.18 ft; minimum, 0.06 ft³/s Sept. 2, 1964, gage height, 0.02 ft (result of regulation); minimum daily, 4.3 ft³/s Oct. 13, 14, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s Aug. 3, gage height, 1.38 ft; minimum, 0.53 ft³/s Aug. 24, gage height, 0.14 ft (result of regulation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	11	11	10	9.5	10	17	12	10	9.9	8.1	5.8
2	10	11	13	9.8	12	10	13	11	8.7	13	8.2	8.2
3	11	11	11	15	9.3	10	13	12	9.4	10	17	8.7
4	11	11	11	12	10	10	13	12	13	7.8	10	8.0
5	13	21	10	12	13	11	13	15	11	7.5	9.0	7.8
6	12	13	11	11	9.8	11	13	13	9.6	6.9	8.8	8.8
7	11	11	11	10	9.6	11	13	13	11	6.7	9.0	5.5
8	11	10	10	9.8	9.9	10	14	12	13	6.0	8.9	11
9	11	9.8	10	9.9	9.8	10	13	13	12	6.2	8.5	10
10	10	9.6	10	9.1	9.7	11	14	13	12	5.1	8.1	8.5
11	15	9.5	11	8.5	9.6	11	13	12	11	8.0	9.0	8.8
12	14	10	12	11	9.4	10	13	12	13	6.7	8.0	9.2
13	13	9.8	11	9.9	9.4	15	13	12	12	6.9	7.5	8.6
14	12	9.6	11	9.0	10	17	13	11	11	7.6	7.8	8.4
15	13	9.8	11	9.0	9.7	16	13	11	10	8.5	7.8	8.3
16	12	11	11	9.1	9.4	14	14	11	9.8	6.0	7.8	9.0
17	12	19	11	9.4	9.6	12	18	12	9.4	8.9	7.8	8.3
18	12	11	10	9.4	12	12	15	11	8.9	7.2	8.8	7.9
19	12	10	10	9.4	12	12	14	11	9.6	6.8	7.7	8.1
20	12	10	11	9.2	12	12	13	12	11	6.9	7.3	10
21	12	9.8	11	8.8	12	12	13	12	11	7.1	9.6	10
22	12	12	11	8.5	11	12	14	15	11	6.0	9.7	8.4
23	12	12	11	8.5	11	12	17	12	9.8	8.9	8.1	8.3
24	12	11	11	10	10	12	13	11	10	6.7	4.9	8.5
25	12	10	11	9.1	11	12	14	9.4	10	6.2	7.2	8.3
26	11	13	11	13	11	12	14	11	9.6	6.7	8.3	8.0
27	11	12	10	18	10	13	13	10	9.6	11	7.7	8.2
28	11	15	10	11	10	13	13	11	9.8	10	7.9	7.8
29	11	14	10	9.8	---	14	13	8.6	9.3	9.6	7.4	7.7
30	13	12	10	10	---	14	13	9.1	8.8	8.5	7.3	8.4
31	12	---	9.8	10	---	17	---	10	---	8.1	7.0	---
TOTAL	365.8	348.9	332.8	319.2	291.7	378	412	360.1	314.3	241.4	260.2	252.5
MEAN	11.8	11.6	10.7	10.3	10.4	12.2	13.7	11.6	10.5	7.79	8.39	8.42
MAX	15	21	13	18	13	17	18	15	13	13	17	11
MIN	9.8	9.5	9.8	8.5	9.3	10	13	8.6	8.7	5.1	4.9	5.5

CAL YR 1985 TOTAL 4197.1 MEAN 11.5 MAX 21 MIN 9.0
WTR YR 1986 TOTAL 3876.9 MEAN 10.6 MAX 21 MIN 4.9

01305500 SWAN RIVER AT EAST PATCHOGUE, NY--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
09...	1045	10	85	4.80	7.0	6.8	6.9	2.2	9.5	2.0	6
MAR											
17...	1100	13	95	5.40	9.0	7.2	7.6	2.2	10	1.6	12
JUN											
11...	1100	11	95	6.50	19.0	8.8	2.2	2.2	9.0	1.3	15
SEP											
08...	1100	6.2	95	6.30	18.0	9.6	7.0	2.0	8.5	1.5	14

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
09...	11	12	0.50	1.85	1.90	0.012	0.016	0.145	0.140	0.10
MAR										
17...	11	13	0.50	1.60	1.70	0.012	0.014	0.110	0.110	0.20
JUN										
11...	10	12	--	1.30	1.30	0.025	0.024	0.050	0.050	0.50
SEP										
08...	10	12	0.50	1.20	1.20	0.011	0.013	0.030	0.030	0.60

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
09...	0.10	0.028	0.028	0.013	0.013	100	100	60	--	0.02
MAR										
17...	0.20	0.020	0.008	0.005	0.005	400	200	34	--	0.02
JUN										
11...	0.30	0.024	0.016	0.012	0.010	200	100	32	--	0.04
SEP										
08...	0.30	0.042	0.022	0.006	0.005	300	200	100	--	0.02

01306000 PATCHOGUE RIVER AT PATCHOGUE, NY

LOCATION.--Lat 40°45'56", long 73°01'16", Suffolk County, Hydrologic Unit 02030202, on left bank just downstream from Montauk Highway in Patchogue, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--About 13.5 square miles.

PERIOD OF RECORD.--May 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
09...	1315	--	130	5.30	5.0	7.5	9.8	3.2	14	4.0	22
MAR											
17...	1300	--	135	5.90	10.0	7.9	10	3.2	16	3.5	25
JUN											
11...	1300	--	150	6.40	21.0	7.3	10	3.2	16	2.9	26
SEP											
08...	1300	--	150	--	21.0	8.8	10	2.2	15	3.1	24

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
09...	12	21	0.50	2.30	2.30	0.022	0.022	0.890	0.900	0.80
MAR										
17...	12	21	0.50	2.10	2.00	0.019	0.020	0.790	0.830	0.80
JUN										
11...	12	22	--	1.90	2.00	0.126	0.118	0.400	0.390	1.0
SEP										
08...	12	21	0.50	2.10	2.10	0.010	0.012	0.040	0.070	0.50

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
09...	0.90	0.035	0.030	0.012	0.010	500	400	500	--	0.02
MAR										
17...	0.80	--	--	0.027	0.022	600	600	660	--	0.02
JUN										
11...	0.90	0.033	0.021	0.012	0.011	800	500	320	--	0.02
SEP										
08...	0.40	0.022	0.019	0.006	0.006	400	300	100	--	0.02

01306440 CONNETQUOT BROOK AT CENTRAL ISLIP, NY

LOCATION.--Lat 40°47'33", long 73°09'58", Suffolk County, Hydrologic Unit 02030202, 200 ft downstream from culvert on Veterans Memorial Highway, 2.0 mi northeast of Central Islip, and 3.8 mi upstream from gaging station 01306499.

DRAINAGE AREA.--About 12 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968, 1971-78. May 1979 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 29.93 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-15, Oct. 26 to Nov. 14, Aug. 14-17. Records good.

AVERAGE DISCHARGE.--7 years, 6.56 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40 ft³/s Aug. 4, 1979, gage height, 1.56 ft; minimum, 0.36 ft³/s July 15, 1980 (result of regulation), gage height, 0.12 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft³/s Mar. 15, gage height, 0.73 ft; minimum, 1.1 ft³/s July 24-26, gage height, 0.21 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.6	4.9	3.2	3.3	4.1	4.8	3.7	2.8	1.8	2.1	1.6
2	3.0	2.6	4.8	3.2	3.7	4.1	4.8	3.7	2.8	3.1	2.0	1.5
3	3.2	2.6	4.4	4.5	3.5	4.1	4.7	3.7	2.8	2.3	3.4	1.5
4	3.2	2.6	4.1	3.8	3.5	3.9	4.7	3.7	2.7	2.2	2.2	1.5
5	3.2	3.3	4.1	4.3	3.9	3.9	4.6	3.7	2.5	2.1	2.1	1.4
6	3.1	3.1	4.1	3.8	3.6	3.9	4.8	3.7	2.5	1.9	2.0	1.4
7	3.1	3.0	3.9	3.6	3.6	3.8	4.6	4.1	2.5	1.8	2.0	1.4
8	3.1	2.9	3.8	3.5	3.5	3.7	4.4	3.7	2.4	1.7	2.0	1.3
9	3.0	2.8	3.7	3.5	3.5	3.7	4.2	3.5	2.2	1.7	1.9	1.3
10	3.0	2.8	3.6	3.5	3.4	3.7	4.1	3.5	2.1	1.7	1.8	1.3
11	3.0	2.7	3.6	3.3	3.5	4.0	4.1	3.4	2.5	1.7	2.3	1.3
12	2.9	2.7	3.7	3.3	3.4	3.9	4.1	3.4	3.1	2.3	1.9	1.5
13	2.9	2.6	3.8	3.3	3.3	5.0	4.0	3.3	2.9	2.1	1.8	1.3
14	2.8	2.6	3.8	3.3	3.3	6.0	3.9	3.3	2.6	2.1	1.8	1.3
15	2.8	2.6	3.7	3.2	3.3	8.5	3.9	3.3	2.4	1.8	1.8	1.3
16	2.6	3.1	3.6	3.2	3.3	6.8	4.0	3.3	2.4	1.6	1.8	1.3
17	2.6	6.1	3.5	3.2	3.3	6.1	5.1	3.4	2.2	1.4	1.8	1.3
18	2.6	4.1	3.5	3.2	4.2	5.8	4.5	3.3	2.1	1.3	2.1	1.3
19	2.6	3.7	3.5	3.5	4.1	5.6	4.2	3.3	2.1	1.3	2.1	1.3
20	2.6	3.5	3.5	3.5	4.3	5.5	4.1	3.2	2.2	1.3	2.0	1.3
21	2.6	3.4	3.5	3.3	4.8	5.2	4.2	3.2	2.0	1.3	2.5	1.4
22	2.6	4.2	3.3	3.2	4.9	5.1	4.1	3.2	2.0	1.2	2.2	1.3
23	2.6	4.0	3.4	3.2	4.8	5.0	4.4	3.1	1.9	1.2	2.0	1.3
24	2.6	3.7	3.3	3.2	4.6	5.0	4.2	3.0	1.9	1.2	2.0	1.3
25	2.6	3.5	3.3	3.1	4.6	4.9	4.4	3.0	2.0	1.1	1.8	1.3
26	2.6	4.0	3.3	3.5	4.3	4.8	4.6	3.0	1.9	1.3	1.8	1.3
27	2.6	4.2	3.3	4.0	4.3	4.8	4.4	3.0	1.9	2.5	1.7	1.5
28	2.6	5.3	3.3	3.6	4.2	4.8	3.8	3.0	1.9	1.6	1.7	1.3
29	2.6	5.4	3.2	3.5	---	4.7	3.7	3.0	1.9	2.6	1.7	1.3
30	2.6	4.9	3.2	3.3	---	4.7	3.7	2.9	1.8	2.3	1.6	1.3
31	2.6	---	3.2	3.3	---	4.8	---	2.8	---	2.1	1.6	---
TOTAL	86.9	104.6	113.9	107.1	108.0	149.9	129.1	103.4	69.0	55.6	61.5	40.7
MEAN	2.80	3.49	3.67	3.45	3.86	4.84	4.30	3.34	2.30	1.79	1.98	1.36
MAX	3.2	6.1	4.9	4.5	4.9	8.5	5.1	4.1	3.1	3.1	3.4	1.6
MIN	2.6	2.6	3.2	3.1	3.3	3.7	3.7	2.8	1.8	1.1	1.6	1.3

CAL YR 1985	TOTAL	2067.8	MEAN	5.67	MAX	13	MIN	2.6
WTR YR 1986	TOTAL	1129.7	MEAN	3.10	MAX	8.5	MIN	1.1

01306460 CONNETQUOT BROOK NEAR CENTRAL ISLIP, NY

LOCATION.--Lat 40°46'19", long 73°09'33", Suffolk County, Hydrologic Unit 02030202, 200 ft upstream from bridge on dirt road in Connetquot River State Park Preserve, and 1.8 mi upstream from gaging station 01306499.

DRAINAGE AREA.--About 18 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968, 1973-77. November 1977 to current year.

GAGE.--Water-stage recorder and wooden stoplog control. Datum of gage is 15.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Apr. 11 to May 12. Records good.

AVERAGE DISCHARGE.--8 years, 28.9 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/s Aug. 12, 1978, gage height, 2.78 ft, from flood marks; minimum, 12 ft³/s July 22-26, Sept. 8-20, 25, 26, 1986; minimum gage height, 1.85 ft July 22-26, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft³/s Mar. 15, gage height 2.21 ft; minimum, 12 ft³/s July 22-26, Sept. 8-20, 25, 26; minimum gage height, 1.85 ft July 22-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	30	22	20	23	23	19	16	16	15	13
2	17	16	30	22	22	23	22	19	16	24	15	13
3	19	16	28	27	21	23	22	19	15	20	21	13
4	19	16	28	25	22	22	22	19	16	19	17	13
5	19	25	28	26	24	22	22	19	16	18	16	13
6	18	24	28	24	22	22	23	19	18	17	15	13
7	18	21	27	23	23	21	23	20	19	17	15	13
8	18	20	27	22	22	21	22	19	19	16	15	12
9	18	19	26	22	22	21	22	19	17	17	15	12
10	18	19	26	22	21	21	22	19	16	16	15	12
11	18	19	26	22	22	21	22	19	18	16	16	12
12	18	19	25	21	21	21	22	19	25	19	15	13
13	18	19	24	21	21	24	21	19	23	18	15	12
14	18	19	24	20	20	29	21	19	21	18	15	12
15	18	19	23	20	21	39	21	19	19	17	14	12
16	18	19	23	20	21	34	20	19	19	17	15	12
17	18	36	23	21	23	30	22	19	18	16	15	12
18	17	29	23	20	26	29	21	19	18	15	16	12
19	17	26	22	22	25	28	20	18	18	13	16	12
20	17	25	22	21	26	27	20	17	18	13	16	12
21	17	24	22	21	28	26	19	17	17	13	18	13
22	17	27	22	20	28	26	19	17	17	13	17	13
23	17	28	23	19	27	26	20	17	17	12	15	13
24	16	25	23	19	26	25	19	17	17	12	15	13
25	16	24	23	19	26	24	20	16	17	12	14	12
26	16	26	22	22	24	24	21	16	17	12	14	12
27	16	26	23	24	24	24	20	16	17	17	14	13
28	16	32	23	22	23	24	19	16	17	14	14	13
29	16	34	22	22	---	24	19	17	17	15	13	13
30	16	31	22	22	---	24	19	16	17	15	13	13
31	16	---	22	21	---	23	---	16	---	16	13	---
TOTAL	537	699	760	674	651	771	628	559	535	493	472	376
MEAN	17.3	23.3	24.5	21.7	23.3	24.9	20.9	18.0	17.8	15.9	15.2	12.5
MAX	19	36	30	27	28	39	23	20	25	24	21	13
MIN	16	16	22	19	20	21	19	16	15	12	13	12

CAL YR 1985	TOTAL	9612	MEAN	26.3	MAX	45	MIN	16
WTR YR 1986	TOTAL	7155	MEAN	19.6	MAX	39	MIN	12

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY

LOCATION.--Lat 40°44'51", long 73°09'03", Suffolk County, Hydrologic Unit 02030202, on left bank just downstream from bridge on State Highway 27, 1.0 mi west of Oakdale. Water-quality sampling site at base gage.

DRAINAGE AREA.--About 24 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year (monthly means estimated October 1974 to September 1975).

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Base gage (01306499): Water-stage recorder and wooden stoplog control. Datum of gage is 1.56 ft above National Geodetic Vertical Datum of 1929.
Supplementary gage (01306495): Water-stage recorder with concrete control on left bank of secondary channel 0.25 mi northeast of base gage at datum of 4.74 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 10, 1965, at datum 1.0 ft higher.

REMARKS.--Estimated daily discharges: Oct. 1, 2. Records fair. Flow at both gages occasionally regulated by cleaning operations at outlets of ponds above stations. Discharge figures are those of combined flows in main and secondary channels.

AVERAGE DISCHARGE.--43 years, 38.5 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 263 ft³/s Oct. 16, 1955; minimum daily, 9.3 ft³/s Nov. 25, 27, 1982 (result of regulation).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 51 ft³/s Nov. 5; minimum daily, 19 ft³/s Sept. 14, 15, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	32	40	28	27	32	29	30	25	24	26	21
2	30	33	41	27	30	31	29	30	25	33	26	22
3	32	34	36	33	28	31	29	28	25	29	38	21
4	33	35	34	33	29	31	29	28	25	27	29	22
5	36	51	34	33	32	30	29	28	25	26	26	24
6	34	46	35	32	30	31	31	28	26	25	26	25
7	31	36	35	30	30	30	31	32	29	25	26	22
8	30	31	34	30	30	28	32	30	28	25	25	20
9	30	30	33	29	29	28	31	30	26	25	24	21
10	30	28	33	29	29	29	31	30	25	25	24	21
11	29	26	33	28	29	31	31	30	26	24	26	21
12	31	27	35	29	29	28	31	30	30	26	24	21
13	32	27	34	28	28	33	30	30	29	28	22	20
14	32	27	34	28	29	40	29	29	27	28	22	19
15	33	27	31	27	29	50	28	28	26	26	23	19
16	32	27	31	28	28	42	30	28	27	26	24	20
17	30	46	31	27	29	38	37	28	26	24	24	19
18	29	36	31	27	33	36	34	27	26	24	25	20
19	29	33	29	29	36	36	33	27	25	24	26	20
20	28	32	29	31	38	35	32	28	26	24	24	21
21	29	30	31	28	38	33	32	28	26	24	25	22
22	30	33	29	28	39	32	32	28	27	23	31	22
23	31	38	29	27	38	32	32	28	28	23	27	22
24	32	34	30	26	38	31	32	27	27	22	27	21
25	31	32	30	28	37	30	31	27	26	23	24	21
26	29	34	28	29	34	30	31	27	26	23	23	21
27	29	37	29	34	33	30	32	27	26	30	24	23
28	28	40	28	31	32	30	31	27	26	27	24	22
29	27	45	28	28	---	30	30	26	26	27	23	22
30	31	40	27	28	---	30	30	26	26	29	22	22
31	31	---	27	27	---	30	---	25	---	27	22	---
TOTAL	949	1027	989	900	891	1008	929	875	791	796	782	637
MEAN	30.6	34.2	31.9	29.0	31.8	32.5	31.0	28.2	26.4	25.7	25.2	21.2
MAX	36	51	41	34	39	50	37	32	30	33	38	25
MIN	27	26	27	26	27	28	28	25	25	22	22	19

CAL YR 1985	TOTAL	12057	MEAN	33.0	MAX	75	MIN	22
WTR YR 1986	TOTAL	10574	MEAN	29.0	MAX	51	MIN	19

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01306499 (Base gage): May 1966 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
10...	1340	18	85	5.20	7.0	7.2	6.5	2.5	8.5	1.6	12
MAR											
18...	1400	22	90	5.70	9.0	7.0	7.2	3.2	9.4	1.6	14
JUN											
16...	1450	19	95	6.10	19.0	4.7	7.2	3.2	8.2	1.2	19
SEP											
09...	1405	16	100	5.60	16.0	7.9	7.0	3.1	8.0	1.3	17

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
10...	8.8	12	0.50	1.90	1.90	0.011	0.013	0.105	0.120	0.20
MAR										
18...	9.2	12	0.50	1.70	1.80	0.008	0.009	0.080	0.070	0.20
JUN										
16...	7.2	11	--	1.70	1.80	0.021	0.021	0.070	0.080	0.40
SEP										
09...	8 7	12	0.50	1.60	1.60	0.012	0.015	0.040	0.030	0.20

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
10...	0.20	0.039	0.021	0.002	0.002	200	100	160	--	0.02
MAR										
18...	0.30	0.022	0.021	0.006	0.004	300	300	120	--	0.02
JUN										
16...	0.50	0.027	0.018	0.010	0.008	300	100	130	--	0.02
SEP										
09...	0.20	0.028	0.025	0.007	0.006	200	200	<20	--	0.02

01307000 CHAMPLIN CREEK AT ISLIP, NY

LOCATION. --Lat 40°44'13", long 73°12'08", Suffolk County, Hydrologic Unit 02030202, on right bank just upstream from Long Island Railroad bridge, 220 ft downstream from Moffit Boulevard, at Islip, and 1.8 mi upstream from mouth.

DRAINAGE AREA. --About 6.5 square miles.

PERIOD OF RECORD. --Water years 1966 to current year.

REMARKS. --Partial-record discharge data included in this report.

COOPERATION. --All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC 10...	1300	--	165	4.80	9.0	4.4	12	3.4	22	3.1	13
MAR 18...	1300	--	180	5.30	10.0	5.1	14	3.6	25	3.0	18
JUN 16...	1340	--	160	5.70	15.0	4.2	12	3.4	21	2.3	20
SEP 09...	1308	--	190	5.00	13.0	4.5	12	3.5	22	2.2	15

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC 10...	19	36	0.50	2.70	2.60	0.035	0.038	0.630	0.630	0.60
MAR 18...	19	38	0.50	2.70	2.80	0.018	0.019	0.580	0.620	0.60
JUN 16...	17	35	--	2.40	2.30	0.039	0.042	0.590	0.590	1.2
SEP 09...	19	38	0.50	2.00	2.00	0.032	0.033	0.210	0.230	0.50

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC 10...	0.50	0.032	0.017	0.005	0.005	500	200	1000	--	0.04
MAR 18...	0.50	0.015	0.009	0.006	0.006	500	500	780	--	0.02
JUN 16...	1.1	0.035	0.023	0.023	0.016	700	300	720	--	0.03
SEP 09...	0.40	0.020	0.006	0.010	0.008	500	300	440	--	0.04

01307500 PENATAQUIT CREEK AT BAY SHORE, NY

LOCATION.--Lat 40°43'37", long 73°14'41", Suffolk County, Hydrologic Unit 02030202, on right bank just upstream from Union Avenue in Bay Shore, and 4,500 ft upstream from mouth.

DRAINAGE AREA.--About 5 square miles.

PERIOD OF RECORD.--May 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
10...	1115	--	200	4.90	10.0	5.1	15	3.5	27	3.8	18
MAR											
18...	1100	--	220	5.60	9.0	4.7	18	3.9	32	3.6	26
JUN											
16...	1015	--	235	6.00	15.0	6.8	16	3.6	29	3.0	24
SEP											
09...	1115	--	240	6.30	13.0	6.5	16	3.7	28	3.0	30

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
10...	23	43	0.50	3.60	3.60	0.025	0.028	0.830	0.870	0.80
MAR										
18...	22	47	0.50	3.50	3.60	0.018	0.019	0.830	0.800	--
JUN										
16...	25	46	--	3.70	3.70	0.041	0.040	0.490	0.490	0.90
SEP										
09...	22	48	0.50	3.60	3.60	0.039	0.044	0.370	0.400	0.60

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
10...	0.80	0.033	0.022	0.003	0.003	800	300	1400	--	0.04
MAR										
18...	--	0.009	0.008	0.004	0.004	500	500	1300	--	0.02
JUN										
16...	0.80	0.020	0.013	0.011	0.010	400	300	1000	--	0.04
SEP										
09...	0.60	0.030	0.017	0.006	0.005	400	200	900	--	0.05

01308000 SAMPAWAMS CREEK AT BABYLON, NY

LOCATION.--Lat 40°42'15", long 73°18'52", Suffolk County, Hydrologic Unit 02030202, on left bank at upstream side of John Street Bridge in Babylon, 180 ft downstream from Long Island Railroad, and 0.6 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 23 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year (monthly means estimated December 1966 to November 1967).

REVISED RECORDS.--WSP 1141: Drainage area. WSP 1702: 1955(M), 1956(M). WDR NY 1974: 1970(P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft above National Geodetic Vertical Datum of 1929. October 1944 to December 1966, water-stage recorder at site 100 ft east at datum 0.34 ft higher.

REMARKS.--No estimated daily discharges. Records good except those for July to September, which are fair. Flow regulated slightly by pumping operations at railroad and occasionally by ponds above station. Indeterminate effect caused by ground-water pumpage for water-supply purposes at Smith Street substation 0.2 mi northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations.

AVERAGE DISCHARGE.--42 years, 9.71 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft³/s Sept. 12, 1960, gage height, 2.11 ft datum then in use; maximum gage height, 3.28 ft Feb. 7, 1971; minimum discharge, 1.3 ft³/s Sept. 13, 14, gage height, 0.21 ft (result of regulation); minimum gage height, 0.13 datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 5	0645	81	1.40	July 30	2130	96	1.66
Nov. 17	0015	87	1.48	Aug. 3	0045	*125	*2.02
July 27	0115	80	1.46				

Minimum discharge, 1.3 ft³/s Sept. 13, 14, gage height, 0.21 ft (result of regulation); minimum gage height, 0.20 ft June 16, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	4.8	10	6.2	5.8	8.0	8.1	7.2	4.7	4.5	4.6	2.9
2	5.2	4.9	10	5.9	7.6	8.0	7.8	6.9	4.4	26	5.6	2.9
3	8.4	4.7	8.0	16	6.3	8.0	7.6	6.6	4.1	6.3	26	2.9
4	6.2	5.6	7.8	7.7	7.0	8.0	7.7	6.3	4.4	6.0	4.8	3.6
5	7.3	28	8.0	11	8.5	7.9	7.6	6.4	4.4	6.3	4.2	5.2
6	6.0	9.0	8.5	6.9	6.8	7.8	8.4	6.3	5.1	5.8	4.0	5.5
7	5.5	7.7	7.3	6.6	7.0	7.8	8.1	6.4	11	5.5	4.1	3.6
8	5.1	6.3	7.6	6.2	6.8	7.3	8.6	6.1	5.5	5.1	3.9	3.6
9	5.4	5.8	7.8	6.3	6.6	7.5	8.0	5.9	4.6	5.2	3.3	3.3
10	5.6	6.0	8.7	6.4	6.4	7.6	7.7	6.1	4.4	4.7	3.1	3.3
11	5.2	5.6	8.0	6.1	6.7	7.7	7.5	5.9	4.6	5.1	13	3.5
12	4.8	6.6	7.9	6.4	6.4	7.2	7.2	5.8	6.5	7.4	4.3	3.5
13	5.5	6.6	7.8	7.2	6.3	15	7.2	5.7	5.2	6.8	4.1	2.6
14	5.4	6.9	7.5	6.3	6.3	24	6.9	5.7	4.4	8.8	3.4	2.5
15	5.5	7.8	7.2	5.8	6.4	17	6.9	5.7	4.4	5.6	2.8	2.7
16	5.0	15	7.2	5.7	6.1	14	9.2	5.7	4.6	5.3	2.9	2.9
17	4.7	26	7.2	5.9	6.3	11	21	5.8	4.0	5.5	3.0	2.8
18	5.4	8.0	7.1	6.0	14	9.9	11	5.7	4.1	4.9	7.3	3.0
19	5.6	7.3	6.8	6.6	8.8	9.9	9.4	5.7	4.2	4.5	4.1	3.4
20	4.8	7.4	6.9	7.1	10	9.2	8.6	6.1	4.1	4.4	3.3	3.1
21	4.8	6.7	7.0	5.5	12	8.7	8.7	6.3	3.9	4.4	14	5.6
22	4.7	13	6.8	5.5	9.5	8.8	8.1	5.9	4.1	4.0	10	3.0
23	4.7	8.0	6.9	5.5	9.1	9.0	9.0	5.5	4.1	4.0	3.8	3.4
24	4.9	7.7	6.8	5.4	8.6	8.8	8.3	5.3	4.1	3.8	6.8	3.0
25	5.7	7.0	6.7	5.8	8.4	8.4	7.8	5.2	3.9	3.4	4.0	2.7
26	4.7	9.2	6.3	7.8	8.2	8.6	7.7	5.0	3.9	5.1	3.8	3.6
27	4.7	8.9	6.4	9.5	8.1	8.6	8.1	5.0	4.2	26	4.4	13
28	4.4	18	6.2	6.7	8.0	8.4	7.4	5.2	5.4	3.7	4.6	4.3
29	4.6	13	6.2	6.4	---	8.3	7.2	4.7	4.3	3.4	2.9	4.1
30	5.0	9.9	6.1	6.2	---	8.1	7.4	4.7	4.3	14	2.7	4.1
31	4.8	---	6.2	6.0	---	7.9	---	4.6	---	9.4	2.9	---
TOTAL	165.2	281.4	228.9	212.6	218.0	296.4	254.2	179.4	140.9	214.9	171.7	113.6
MEAN	5.33	9.38	7.38	6.86	7.79	9.56	8.47	5.79	4.70	6.93	5.54	3.79
MAX	8.4	28	10	16	14	24	21	7.2	11	26	26	13
MIN	4.4	4.7	6.1	5.4	5.8	7.2	6.9	4.6	3.9	3.4	2.7	2.5

CAL YR 1985	TOTAL	3072.6	MEAN	8.42	MAX	28	MIN	4.4
WTR YR 1986	TOTAL	2477.2	MEAN	6.79	MAX	28	MIN	2.5

01308000 SAMPAWAMS CREEK AT BABYLON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
10...	1000	8.4	180	4.90	8.0	5.1	14	3.2	22	4.4	22
MAR											
18...	1000	9.7	220	5.60	10.0	5.1	14	3.4	24	3.9	28
JUN											
16...	1015	4.4	210	5.80	17.0	4.6	12	3.0	22	3.3	29
SEP											
09...	1003	4.1	--	5.60	13.0	4.5	14	3.3	25	3.1	28

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
10...	28	30	0.50	3.00	3.10	0.043	0.048	1.80	1.80	1.8
MAR										
18...	26	33	0.50	2.60	2.60	0.024	0.027	2.10	2.10	2.2
JUN										
16...	26	33	--	2.10	2.00	0.109	0.103	1.60	1.60	2.3
SEP										
09...	25	38	0.50	2.30	2.30	0.072	0.076	1.10	1.20	1.4

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
10...	--	0.029	0.016	0.006	0.008	1000	800	1600	--	0.07
MAR										
18...	2.5	0.054	0.052	0.021	0.018	1700	1400	1800	--	0.05
JUN										
16...	2.2	0.028	0.019	0.012	0.010	1100	800	1500	--	0.08
SEP										
09...	1.4	0.027	0.027	0.007	0.007	2800	2400	800	--	0.06

01308500 CARLLS RIVER AT BABYLON, NY

LOCATION.--Lat 40°42'31", long 73°19'44", Suffolk County, Hydrologic Unit 02030202, on left bank 130 ft downstream from outlet of Southards Pond in Babylon, and 0.9 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 35 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1141: Drainage area. WDR NY 1972: 1947(m), 1952(m), 1954(m), 1958(m), 1960-63(m).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.63 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Occasional regulation at outlet of Southards Pond.

AVERAGE DISCHARGE.--42 years, 26.6 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 243 ft³/s Jan. 21, 1979, gage height, 2.26 ft; minimum, 0.05 ft³/s Sept. 4, 1963, July 6, 1966, Aug. 29, 1972 (result of regulation); minimum gage height, 0.03 ft July 6, 1966, Aug. 29, 1972 (result of regulation); minimum daily, 4.5 ft³/s July 6, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft³/s Nov. 17, gage height, 1.40 ft; minimum, 0.23 ft³/s Jan. 8, gage height, 0.07 ft (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	29	18	18	22	20	16	12	8.9	16	11
2	15	13	29	17	24	22	20	16	12	30	16	11
3	19	12	25	32	21	21	20	14	11	15	43	11
4	21	14	23	27	21	21	20	13	11	11	20	12
5	22	47	22	27	29	21	20	13	12	11	16	14
6	19	29	25	22	22	21	22	14	14	11	14	15
7	18	19	23	20	21	20	22	14	21	9.8	14	12
8	16	17	22	18	21	19	21	14	16	9.2	13	11
9	19	16	21	18	20	20	21	14	13	9.3	13	16
10	17	16	20	19	20	20	20	15	12	9.1	12	11
11	17	15	21	18	20	21	19	16	12	8.7	21	9.7
12	15	16	22	18	20	19	19	16	15	13	13	9.7
13	15	17	21	19	19	32	18	15	14	12	12	9.4
14	16	17	22	18	19	46	18	14	12	17	11	9.3
15	17	20	19	16	20	44	18	14	12	13	11	9.5
16	16	19	19	16	18	36	23	15	11	9.3	11	10
17	15	67	20	15	19	29	46	16	11	9.3	11	9.1
18	15	32	19	16	32	27	33	14	11	9.9	16	9.3
19	13	24	18	19	36	26	24	14	11	9.9	13	9.9
20	13	22	19	22	32	25	22	14	11	9.6	11	9.9
21	14	20	19	19	32	24	23	15	11	9.5	18	14
22	14	29	18	17	33	23	23	14	11	8.7	33	11
23	15	32	19	17	28	23	25	14	11	8.5	17	11
24	14	22	18	16	26	23	23	14	10	8.4	19	11
25	16	20	19	17	25	22	22	13	9.6	8.7	14	10
26	13	24	17	24	24	22	21	13	9.2	9.4	13	11
27	12	29	17	31	24	22	22	13	9.1	49	13	23
28	14	39	17	23	22	22	21	13	11	21	14	16
29	13	40	17	20	---	21	18	12	9.5	15	12	12
30	14	29	17	20	---	21	14	12	9.0	17	12	11
31	14	---	17	19	---	20	---	12	---	27	12	---
TOTAL	486	730	634	618	666	755	658	436	354.4	418.2	484	349.8
MEAN	15.7	24.3	20.5	19.9	23.8	24.4	21.9	14.1	11.8	13.5	15.6	11.7
MAX	22	67	29	32	36	46	46	16	21	49	43	23
MIN	12	12	17	15	18	19	14	12	9.0	8.4	11	9.1

CAL YR 1985	TOTAL	7695	MEAN	21.1	MAX	67	MIN	12
WTR YR 1986	TOTAL	6589.4	MEAN	18.1	MAX	67	MIN	8.4

01308500 CARLLS RIVER AT BABYLON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
10...	0910	20	180	5.10	6.0	5.8	10	2.8	25	4.1	19
MAR											
18...	0900	28	205	5.70	9.0	6.2	13	3.0	26	3.9	22
JUN											
16...	0905	12	175	6.30	22.0	5.8	12	2.7	20	3.1	23
SEP											
09...	0910	18	--	6.30	17.0	8.3	12	3.0	21	3.2	17

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
10...	28	33	0.50	2.60	2.60	0.028	0.031	1.80	1.80	1.9
MAR										
18...	28	34	0.50	2.20	2.40	0.024	0.034	1.70	1.80	2.1
JUN										
16...	28	29	--	1.50	1.50	0.044	0.046	0.990	0.990	1.8
SEP										
09...	28	31	0.50	2.40	2.40	0.048	0.049	0.470	0.340	0.80

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
10...	2.0	0.034	0.002	0.003	0.002	400	300	2500	--	0.06
MAR										
18...	2.1	0.076	0.020	0.012	0.008	1000	700	2600	--	0.04
JUN										
16...	1.4	0.056	0.016	0.010	0.008	1200	500	2800	--	0.05
SEP										
09...	0.90	0.026	0.024	0.005	0.003	500	300	920	--	0.05

01309000 SANTAPOGUE CREEK AT LINDENHURST, NY

LOCATION.--Lat 40°41'30", long 73°21'20", Suffolk County, Hydrologic Unit 02030202, on left bank just upstream from East Hoffman Avenue bridge, 1.0 mi east of Long Island Railroad station in Lindenhurst, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--About 7 square miles.

PERIOD OF RECORD.--Water years 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC											
10...	0805	--	210	5.10	9.0	3.8	19	4.2	26	6.0	37
MAR											
18...	0800	--	230	5.70	8.0	5.4	20	4.2	30	5.0	46
JUN											
16...	0810	--	230	6.10	15.0	4.4	16	3.3	21	4.2	45
SEP											
09...	0805	--	220	5.60	12.0	4.6	16	3.3	21	3.5	35

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
DEC										
10...	35	36	0.50	0.940	0.970	0.010	0.012	2.60	2.60	3.6
MAR										
18...	32	43	0.50	1.20	1.20	0.013	0.013	2.70	2.60	2.8
JUN										
16...	29	34	--	0.680	0.670	0.012	0.010	2.80	2.80	4.1
SEP										
09...	29	33	0.50	0.810	0.800	0.010	0.011	2.40	2.40	3.0

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC										
10...	3.8	0.043	0.026	0.008	0.007	1700	1300	3800	--	0.05
MAR										
18...	2.5	0.021	0.009	0.005	0.004	1600	1300	3200	--	0.05
JUN										
16...	3.8	0.029	0.019	0.018	0.015	1700	1200	2700	--	0.05
SEP										
09...	2.8	0.038	0.030	0.009	0.010	1200	900	1700	--	0.07

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, Hydrologic Unit 02030202, on left bank 3000 ft upstream from Clark Boulevard Bridge in Massapequa, and 350 ft west of Lake Shore Drive at Garfield Street in Massapequa Park. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 38 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1903, December 1936 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 1411: Drainage area. WRD NY 1970: 1966-69 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.31 ft above National Geodetic Vertical Datum of 1929. Prior to October 1903, non-recording gage at different datum. December 1936 to March 1961, at same site at datum 1.0 ft higher.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--49 years (1937-86), 11.1 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 510 ft³/s July 29, 1980, gage height, 2.40 ft, from rating curve extended above 170 ft³/s; minimum, 0.95 ft³/s Aug. 4, 1963, Nov. 2, 1965, Jan. 8, 1977 (result of freezeup); 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 17	0045	*106	*1.49				

Minimum discharge, 1.0 ft³/s Aug. 14, 15, Sept. 13, 14, 16-18, gage height, 0.60 ft; minimum gage height 0.60 ft June 30 to July 2, July 8, 10, 17, 18, 22, 24, 25, Aug. 14, 15, Sept. 13, 14, 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.1	5.6	2.8	3.3	4.0	3.7	4.0	1.9	1.5	1.3	1.4
2	2.3	2.1	6.0	2.8	4.7	4.0	3.7	4.0	1.7	9.4	2.2	1.4
3	4.0	2.1	5.0	8.9	3.5	4.0	3.7	3.9	1.8	2.6	7.3	1.4
4	2.9	2.5	4.5	3.8	3.9	4.0	3.7	3.9	1.7	2.1	1.7	1.5
5	6.8	20	4.5	6.3	6.5	3.9	3.7	3.7	2.0	1.9	1.5	2.0
6	3.2	4.1	4.8	3.6	4.0	3.9	4.0	3.7	2.2	1.9	1.5	1.9
7	2.6	3.4	4.5	3.3	3.9	3.9	4.0	3.9	2.8	1.8	1.4	1.4
8	2.4	3.0	4.1	2.9	3.7	3.7	4.0	3.8	2.4	1.8	1.4	1.3
9	2.5	2.9	4.0	2.9	3.6	3.8	4.0	3.6	1.9	1.7	1.4	1.3
10	2.6	3.0	4.0	2.9	3.4	3.7	3.7	3.6	1.8	1.7	1.3	1.3
11	2.6	3.0	4.0	2.7	3.7	3.9	3.7	3.6	2.0	1.7	4.6	1.3
12	2.5	3.8	4.1	2.8	3.3	3.5	3.7	3.5	3.0	2.6	1.4	1.3
13	2.3	4.1	4.2	2.9	3.3	11	3.7	3.2	2.4	2.3	1.4	1.3
14	2.3	4.0	4.0	2.6	3.3	14	3.3	3.1	2.2	3.2	1.3	1.3
15	2.5	4.5	3.5	2.6	3.3	12	3.3	2.9	2.0	1.8	1.3	1.3
16	2.6	8.3	3.3	2.6	3.3	7.7	7.5	2.6	2.0	1.6	1.3	1.2
17	2.3	27	3.3	2.6	3.3	5.7	18	2.6	1.9	1.5	1.4	1.1
18	2.7	4.8	3.3	2.7	14	5.5	6.7	2.5	1.8	1.5	3.1	1.2
19	2.9	3.8	3.3	3.3	6.5	5.6	5.4	2.3	1.8	1.6	1.4	1.3
20	3.0	3.7	3.3	3.7	7.7	5.5	4.5	2.3	1.9	1.5	1.3	1.3
21	2.6	3.5	3.3	3.0	8.5	4.9	4.9	2.3	1.7	1.5	6.1	1.4
22	2.6	9.8	3.3	2.8	6.6	4.9	4.5	2.3	1.7	1.5	5.1	1.3
23	2.6	5.2	3.3	2.7	5.4	5.0	8.8	2.3	1.7	1.5	1.8	1.3
24	2.6	3.8	3.3	2.6	5.0	5.1	5.8	2.3	1.7	1.5	2.6	1.3
25	2.9	3.4	3.2	2.7	4.9	4.5	4.5	2.3	1.7	1.5	1.6	1.3
26	2.6	5.2	2.9	7.5	4.5	4.0	4.0	2.2	1.7	2.5	1.5	1.8
27	2.6	6.1	2.9	9.4	4.5	4.1	4.0	2.1	1.7	10	1.5	4.2
28	2.3	15	2.9	4.1	4.3	4.0	4.0	2.0	2.0	1.5	2.0	1.4
29	2.0	9.2	2.9	3.4	---	4.0	4.0	2.0	1.8	1.5	1.5	1.3
30	2.3	5.6	2.9	3.3	---	4.0	3.7	2.0	1.6	1.4	1.4	1.3
31	2.3	---	2.9	3.3	---	3.9	---	1.9	---	1.3	1.4	---
TOTAL	84.8	179.0	117.1	113.5	135.9	161.7	146.2	90.4	58.5	71.4	66.0	44.1
MEAN	2.74	5.97	3.78	3.66	4.85	5.22	4.87	2.92	1.95	2.30	2.13	1.47
MAX	6.8	27	6.0	9.4	14	14	18	4.0	3.0	10	7.3	4.2
MIN	2.0	2.1	2.9	2.6	3.3	3.5	3.3	1.9	1.6	1.3	1.3	1.1

CAL YR 1985	TOTAL	1772.7	MEAN	4.86	MAX	37	MIN	2.0
WTR YR 1986	TOTAL	1268.6	MEAN	3.48	MAX	27	MIN	1.1

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV										
19...	1015	3.7	243	6.30	13.0	771	9.3	87	60	38
MAR										
12...	1110	3.7	288	6.62	11.0	770	9.4	84	61	45
MAY										
30...	1045	2.0	267	6.35	25.5	756	8.8	109	60	35
SEP										
02...	1040	1.3	273	6.09	18.0	766	8.6	90	63	43

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV										
19...	18	3.6	23	3.8	22	32	36	<0.10	9.2	140
MAR										
12...	18	4.0	23	3.8	16	33	31	<0.10	8.2	130
MAY										
30...	18	3.6	22	3.7	25	42	36	<0.10	7.6	150
SEP										
02...	19	3.7	22	3.7	20	33	29	<0.10	9.0	130

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV										
19...	4.27	0.030	0.890	0.71	5.9	0.040	0.010	410	1200	0.10
MAR										
12...	4.67	0.030	0.770	0.93	6.4	0.020	<0.010	420	940	0.13
MAY										
30...	4.16	0.040	0.670	0.53	5.4	0.020	<0.010	340	640	0.09
SEP										
02...	4.14	0.060	0.490	0.81	5.5	0.010	<0.010	200	740	0.11

01310000 BELLMORE CREEK AT BELLMORE, NY

LOCATION.--Lat 40°40'43", long 73°30'58", Nassau County, Hydrologic Unit 02030202, on right bank 40 ft east of intersection of Valentine Place and Mill Road, in Bellmore, 0.5 mi north of Sunrise Highway, and 0.5 mi northwest of Wantagh. Water-quality sampling site at base gage.

DRAINAGE AREA.--About 17 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1883 (fragmentary), July to October 1903, published in Professional Paper 44, September 1937 to current year. Prior to October 1957, published as Wantagh Stream at Wantagh. October 1957 to October 1967, published as Wantagh Stream at Bellmore.

GAGE.--Base gage (01309950): Water-stage recorder. Concrete control since July 24, 1974. Datum of gage is 15.06 ft above National Geodetic Vertical Datum of 1929. June to October 1883, determination of flow by various methods at different site and datum. July to October 1903, nonrecording gages on two channels near present site at different datum. Sept. 23, 1937, to Aug. 1, 1958, water-stage recorder with concrete control on right bank of present secondary channel about 1,000 ft east at datum 1.88 ft higher (used as supplementary gage since Aug. 1, 1958).
Supplementary gage (01309990): Water-stage recorder with concrete control on right bank of secondary channel about 1,000 ft east of base gage at datum of 16.96 ft National Geodetic Vertical Datum of 1929. Prior to July 28, 1965, at datum 2.00 ft higher. From July 28, 1965 to Oct. 6, 1965, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Prior to Nov. 4, 1955, flow at all stages regulated intermittently at outlet of Wantagh Reservoir, 1.0 mi above station, and prior to November 1953 by Browning Pond, 0.5 mi above station. Subsequent to Nov. 3, 1955, permanent diversion of a substantial portion of the flow through west branch of Bellmore Creek. Discharge figures given are those of combined flows in main and secondary channels.

AVERAGE DISCHARGE.--49 years (1937-86), 10.0 ft³/s.

EXTREMES FOR PERIOD OF RECORD (1903 and SINCE 1937).--Maximum daily discharge, 162 ft³/s Sept. 12, 1960; maximum discharge prior to beginning of diversion in November 1955, 340 ft³/s June 1, 1952, adjusted to include flow bypassing station; maximum gage height, 2.57 ft June 1, 1952, datum then in use; no flow July 24, 25, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 18 ft³/s Apr. 17; no flow July 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.2	3.5	2.5	2.6	3.2	2.7	3.2	1.2	.53	.55	.31
2	2.6	1.2	3.6	2.7	3.4	3.3	2.8	3.1	1.2	5.6	1.5	.29
3	3.0	1.6	3.1	6.0	2.9	3.4	2.7	2.9	1.1	1.2	2.4	.27
4	2.1	2.9	3.2	2.9	3.8	3.4	2.6	3.0	1.1	1.2	.68	.30
5	8.0	14	3.3	5.3	4.2	3.2	2.7	2.9	1.1	1.5	.63	.53
6	2.5	2.1	3.7	2.9	3.0	3.4	3.0	2.8	1.2	1.5	.57	.59
7	2.0	1.9	3.2	2.8	3.1	3.3	3.2	2.8	1.4	1.5	.54	.39
8	1.8	1.8	3.2	2.8	3.0	2.9	3.0	2.8	1.4	1.4	.53	.35
9	1.8	1.6	3.0	2.9	2.8	3.0	3.0	2.8	1.1	1.5	.49	.34
10	2.0	1.6	2.9	2.7	2.8	3.1	2.7	2.9	1.0	1.2	.39	.33
11	1.7	1.6	3.0	2.5	2.9	3.0	2.8	2.7	1.2	.46	1.0	.33
12	1.6	2.0	3.0	2.4	2.8	2.7	3.8	2.7	2.2	.65	.39	.32
13	1.8	2.2	3.2	2.4	2.7	7.9	3.6	2.6	1.3	.77	.34	.25
14	1.8	2.4	3.0	2.2	2.8	11	3.4	2.2	1.3	.94	.32	.18
15	1.8	2.4	2.8	2.2	2.9	6.2	3.5	2.4	1.1	.69	.29	.15
16	1.6	9.9	2.8	2.2	2.6	4.7	8.7	2.4	1.0	.59	.29	.15
17	1.5	12	2.7	2.2	2.7	3.8	18	2.8	.98	.56	.26	.17
18	1.5	2.9	2.7	2.2	11	3.6	5.5	2.7	.95	.49	.41	.24
19	1.4	2.7	2.8	2.6	4.3	3.8	4.0	3.2	1.0	.44	.37	.25
20	1.2	2.6	2.8	2.8	5.3	3.4	3.8	3.2	1.0	.42	.31	.24
21	1.3	2.4	2.8	2.1	6.1	3.3	4.7	3.5	.83	.39	3.4	.19
22	1.2	6.5	2.6	2.2	4.1	3.4	4.1	3.2	.78	.27	1.2	.13
23	1.3	3.0	2.7	2.1	3.8	3.4	8.9	3.3	.77	.12	.60	.25
24	1.2	2.7	2.8	2.2	3.6	3.4	5.2	2.6	.73	.00	.90	.23
25	1.4	2.4	2.6	2.3	3.6	3.3	4.6	2.3	.64	.00	.48	.15
26	1.1	3.7	2.5	7.8	3.6	3.3	4.3	1.9	.61	.05	.46	.25
27	1.3	3.5	2.6	6.8	3.7	3.4	4.2	1.5	.60	2.1	.47	.67
28	1.0	10	2.5	3.2	3.6	3.2	3.7	1.5	.68	.55	.53	.33
29	1.0	4.8	2.6	3.0	---	3.0	3.7	1.4	.64	.58	.44	.31
30	1.1	3.5	2.4	2.8	---	3.0	3.2	1.4	.62	.89	.39	.31
31	1.1	---	2.5	2.6	---	2.9	---	1.3	---	.64	.34	---
TOTAL	57.3	113.1	90.1	94.3	103.7	117.9	132.1	80.0	30.73	28.73	21.47	8.80
MEAN	1.85	3.77	2.91	3.04	3.70	3.80	4.40	2.58	1.02	.93	.69	.29
MAX	8.0	14	3.7	7.8	11	11	18	3.5	2.2	5.6	3.4	.67
MIN	1.0	1.2	2.4	2.1	2.6	2.7	2.6	1.3	.60	.00	.26	.13

CAL YR 1985 TOTAL 1324.7 MEAN 3.63 MAX 26 MIN 1.0
WTR YR 1986 TOTAL 878.23 MEAN 2.41 MAX 18 MIN .00

01310000 BELLMORE CREEK NEAR BELLMORE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01309950 (Base gage): April 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV										
19...	1100	2.6	307	6.50	12.5	771	8.6	80	61	35
MAR										
12...	1210	2.4	317	6.85	11.0	769	11.1	99	61	38
MAY										
30...	1140	1.4	332	8.50	26.0	756	13.8	171	64	38
SEP										
02...	1200	0.26	322	6.88	21.5	766	11.0	124	67	34

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV										
19...	19	3.3	30	3.9	26	29	46	<0.10	9.0	160
MAR										
12...	19	3.4	34	3.4	23	27	48	<0.10	8.3	160
MAY										
30...	20	3.5	35	3.1	26	32	51	<0.10	7.4	170
SEP										
02...	21	3.6	32	3.7	33	29	45	<0.10	3.6	160

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV										
19...	4.44	0.060	0.590	0.51	5.6	0.020	<0.010	110	830	0.08
MAR										
12...	4.57	0.030	0.650	0.45	5.7	<0.010	<0.010	290	880	0.11
MAY										
30...	3.87	0.030	0.110	0.49	4.5	0.010	<0.010	180	170	0.08
SEP										
02...	---	0.030	0.110	0.59	---	<0.110	0.040	780	750	0.09

01310500 EAST MEADOW BROOK AT FREEPORT, NY

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, Hydrologic Unit 02030202, on right bank 24 ft upstream from bridge on Hempstead-Babylon Turnpike and 400 ft west of Meadowbrook Parkway, in Freeport. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 31 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1851 to December 1852, June to October 1883, September and October 1885 (fragmentary), June to October 1903, published in Professional Paper 44, January 1937 to current year (monthly means estimated November 1962 to December 1963).

REVISED RECORDS.--WDR NY 1972: 1967-71 (P). WDR NY 1977: 1973-76 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.45 ft above National Geodetic Vertical Datum of 1929. Prior to October 1885, determinations of flow by various methods at different site and datum. June to October 1903, weir in swamp at head of Brooklyn waterworks supply pond. January 1937 to November 1962, water-stage recorder and concrete control at site 81 ft east at datum 0.47 ft higher.

REMARKS.--Estimated daily discharges: Jan. 19-23. Records good except those below 5 cfs, which are fair.

AVERAGE DISCHARGE.--49 years (1937-86), 14.3 ft³/s.

EXTREMES FOR PERIOD OF RECORD (1903 AND SINCE 1937).--Maximum discharge, 848 ft³/s July 29, 1980, gage height, 3.57 ft maximum gage height, 4.38 ft Sept. 12, 1960 (datum then in use); no flow Aug. 26, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 17	0215	*325	*2.01	July 30	1800	322	2.00

Minimum discharge, 0.02 ft³/s July 25, gage height, 0.04 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.8	5.9	2.6	3.3	3.9	3.6	4.1	2.0	.58	2.9	.73
2	2.3	1.8	7.3	2.4	4.7	3.9	3.6	3.9	1.7	18	5.0	.67
3	4.4	1.9	4.4	8.9	3.5	3.6	3.5	3.8	1.6	2.5	23	.64
4	3.3	2.0	3.9	4.1	4.1	3.6	3.6	3.8	1.6	1.6	2.3	.66
5	12	33	3.8	11	9.3	3.6	3.4	3.8	1.6	1.3	1.5	1.4
6	4.0	3.0	4.3	3.9	4.5	3.7	4.2	3.7	7.2	1.0	1.3	1.7
7	2.5	2.4	3.8	3.1	4.1	3.6	3.8	3.9	3.2	.82	1.2	.76
8	2.2	2.4	3.6	2.8	3.8	3.4	3.9	3.6	2.2	.62	1.1	.61
9	2.2	2.3	3.6	2.7	3.6	3.7	3.6	3.5	1.8	.63	.90	.54
10	2.2	2.2	3.3	2.7	3.4	3.7	3.5	3.5	1.6	.56	.71	.47
11	2.1	2.2	3.4	2.7	3.5	3.8	3.6	3.5	2.7	.40	11	.43
12	1.9	2.6	3.4	2.7	3.3	3.5	3.3	3.5	4.8	.93	1.2	.38
13	2.1	2.6	3.6	3.0	3.3	13	3.3	3.3	2.6	1.1	.86	.26
14	2.0	2.9	3.6	2.4	3.3	26	3.3	3.3	2.0	4.2	.63	.22
15	1.9	3.2	3.1	2.4	3.3	24	3.3	3.3	1.6	.95	.46	.24
16	1.9	12	3.1	2.4	3.0	7.8	12	3.2	1.5	.69	.42	.28
17	1.8	72	3.0	2.4	3.1	5.9	53	3.2	1.5	.59	.48	.30
18	1.8	6.8	3.0	2.4	27	5.2	11	3.0	1.4	.49	12	.23
19	1.9	4.4	3.0	3.3	9.2	4.8	7.0	2.9	1.3	.62	1.3	.36
20	1.8	3.8	3.0	4.0	12	4.4	5.8	3.1	1.4	.49	.84	.39
21	1.8	3.2	2.9	3.0	11	4.1	6.3	3.1	1.3	.39	14	.33
22	1.9	19	2.7	2.7	8.1	4.0	6.1	5.5	1.3	.29	11	.14
23	1.9	7.4	2.9	2.4	5.5	4.0	14	3.8	1.2	.22	2.0	.12
24	1.9	4.4	2.7	2.3	4.9	3.8	8.6	2.9	1.1	.15	3.4	.16
25	2.1	3.5	2.7	2.4	4.4	3.7	5.7	2.6	.87	.08	1.4	.12
26	1.8	8.7	2.6	44	4.1	3.7	5.3	2.7	.78	1.5	1.3	.67
27	1.7	11	2.7	24	4.0	3.8	5.0	2.5	.75	16	1.1	2.5
28	1.8	38	2.6	5.7	4.0	3.8	4.6	2.3	.80	1.7	1.7	.61
29	1.7	17	2.6	4.3	---	3.6	4.3	2.0	.69	1.2	1.1	.40
30	1.7	6.8	2.4	3.8	---	3.6	4.2	1.9	.65	65	.93	.40
31	1.7	---	3.0	3.5	---	3.6	---	2.2	---	13	.84	---
TOTAL	76.7	284.3	105.9	170.0	161.3	176.8	206.4	101.4	54.74	137.60	107.87	16.72
MEAN	2.47	9.48	3.42	5.48	5.76	5.70	6.88	3.27	1.82	4.44	3.48	.56
MAX	12	72	7.3	44	27	26	53	5.5	7.2	65	23	2.5
MIN	1.7	1.8	2.4	2.3	3.0	3.4	3.3	1.9	.65	.08	.42	.12

CAL YR 1985	TOTAL	2337.6	MEAN	6.40	MAX	76	MIN	1.3
WTR YR 1986	TOTAL	1599.73	MEAN	4.38	MAX	72	MIN	.08

01310500 EAST MEADOW BROOK AT FREEPORT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV										
19...	1140	4.3	288	6.70	14.0	771	8.5	81	51	18
MAR										
12...	1310	3.6	550	6.62	10.5	769	10.9	97	63	36
MAY										
28...	1145	2.2	603	6.05	22.0	758	9.2	106	76	51
SEP										
03...	1030	0.61	357	6.40	18.0	768	8.9	93	54	27

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV										
19...	14	3.9	33	2.3	33	21	50	<0.10	5.7	150
MAR										
12...	18	4.5	78	2.5	27	35	120	<0.10	7.0	280
MAY										
28...	22	5.0	74	3.0	25	28	140	<0.10	5.4	290
SEP										
03...	15	3.9	49	2.4	27	25	81	<0.10	5.8	200

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV										
19...	0.990	0.010	0.120	0.58	1.7	0.080	0.020	480	270	0.07
MAR										
12...	2.18	0.020	0.220	0.48	2.9	<0.010	<0.010	590	430	0.11
MAY										
28...	1.48	0.020	0.120	0.38	2.0	0.010	<0.010	400	320	0.08
SEP										
03...	--	0.010	0.070	0.33	--	<0.020	<0.010	530	130	0.08

01311000 PINES BROOK AT MALVERNE, NY

LOCATION.--Lat 40°39'59", long 73°39'35", Nassau County, Hydrologic Unit 02030202, on left bank 300 ft downstream from Lakeview Avenue and southern boundary of Malverne. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 10 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1851-52, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44); December 1936 to current year (monthly means estimated March to September 1970).

REVISED RECORDS.--WSP 1432: 1937, 1940.

GAGE.--Water-stage recorder with steel plate V-notch weir and concrete controls. Datum of gage is 7.11 ft above National Geodetic Vertical Datum of 1929 (Nassau County Bench mark). Prior to 1894, determinations of flow by various methods, at different sites and datums. December 1936 to Oct. 1, 1970, at site 200 ft upstream at datum 2.31 ft higher. Oct. 1, 1970 to May 31, 1972, supplementary gage on secondary channel 10 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 25 to Jan. 19, and Feb. 11-28. Records good except those for estimated daily discharges, which are fair. Prior to Feb. 20, 1956, flow occasionally regulated by Pines Pond. Indeterminate diversion from Pines Pond for emergency municipal water supply for City of New York, August 1953 to September 1954.

AVERAGE DISCHARGE.--49 years (1937-86), 3.68 ft³/s.

EXTREMES FOR PERIOD OF RECORD (SINCE 1936).--Maximum discharge, 660 ft³/s June 30, 1984, gage height, 5.11 ft; no flow part of Sept. 12, 1963, and at times from 1964 to 1975, 1977, 1980-86.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 17	0015	*202	*3.89

Date	Time	Discharge (ft³/s)	Gage height (ft)
No other peak greater than base discharge.			

No flow for all or part of many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.07	.00	.04	.09	.11	.19	.05	.00	.05	.00
2	.00	.00	.11	.00	.16	.09	.11	.12	.02	9.4	8.7	.00
3	.33	.00	.03	6.7	.04	.08	.09	.11	.00	.01	5.0	.00
4	.02	.00	.03	.06	.23	.09	.09	.11	.00	.00	.02	.00
5	.44	11	.02	.41	.56	.09	.09	.10	.00	.00	.01	.27
6	.02	.01	.04	.01	.05	.09	.16	.08	4.1	.00	.01	.05
7	.00	.00	.00	.00	.05	.08	.11	.07	.34	.01	.01	.01
8	.00	.00	.01	.00	.06	.07	.12	.06	.03	.01	.01	.00
9	.00	.00	.01	.00	.04	.07	.09	.06	.02	.00	.00	.00
10	.00	.00	.01	.00	.05	.07	.09	.09	.01	.00	.00	.00
11	.00	.00	.03	.00	.04	.13	.09	.07	.00	.00	7.8	.00
12	.00	.02	.04	.00	.04	.07	.08	.06	1.6	.04	.01	.00
13	.00	.03	.12	.00	.04	3.0	.07	.04	.07	3.2	.00	.00
14	.00	.21	.04	.00	.04	9.5	.07	.01	.01	.24	.00	.00
15	.00	.20	.02	.00	.04	2.4	.08	.00	.00	.01	.00	.00
16	.00	15	.01	.00	.04	.33	6.2	.00	.00	.00	.00	.00
17	.00	17	.01	.00	.04	.25	19	.00	.00	.00	.02	.00
18	.00	.01	.00	.00	10	.24	.41	.00	.00	.00	7.5	.00
19	.00	.00	.00	.05	.50	.20	.27	.00	.00	.03	.01	.00
20	.00	.00	.00	.18	2.0	.14	.24	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	1.0	.13	.36	.00	.00	.00	16	.00
22	.00	3.6	.00	.00	.20	.13	.23	15	.00	.00	.28	.00
23	.00	.04	.00	.00	.15	.13	2.6	.08	.00	.00	.09	.00
24	.00	.00	.00	.00	.10	.12	.33	.04	.00	.00	1.6	.00
25	.00	.00	.00	.00	.10	.12	.30	.03	.00	.00	.01	.00
26	.00	.77	.00	25	.09	.13	.28	.03	.00	2.7	.00	.23
27	.00	.86	.00	5.7	.09	.16	.28	.01	.00	.83	.00	4.4
28	.00	12	.00	.26	.09	.13	.31	.00	.00	.01	.20	.01
29	.00	2.5	.00	.15	---	.13	.30	.00	.00	.00	.01	.00
30	.00	.08	.00	.15	---	.12	.28	.00	.00	12	.00	.00
31	.00	---	.00	.11	---	.11	---	1.0	---	.42	.00	---
TOTAL	.81	63.33	.60	38.78	15.88	18.49	32.84	17.36	6.25	28.91	47.34	4.97
MEAN	.03	2.11	.02	1.25	.57	.60	1.09	.56	.21	.93	1.53	.17
MAX	.44	17	.12	25	10	9.5	19	15	4.1	12	16	4.4
MIN	.00	.00	.00	.00	.04	.07	.07	.00	.00	.00	.00	.00

CAL YR 1985	TOTAL	432.12	MEAN	1.18	MAX	39	MIN .00
WTR YR 1986	TOTAL	275.56	MEAN	.75	MAX	25	MIN .00

01311500 VALLEY STREAM AT VALLEY STREAM, NY

LOCATION.--Lat 40°39'49", long 73°42'18", Nassau County, Hydrologic Unit 02030202, on right bank 40 ft upstream from West Valley Stream Boulevard in Valley Stream.

DRAINAGE AREA.--About 4.5 mi².

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 as Watts Creek at Valley Stream.

REVISED RECORDS.--WRD NY 1971: 1962-63(M), 1966-69(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft above National Geodetic Vertical Datum 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 1.0 ft higher.

REMARKS.--Estimated daily discharges: Oct. 18-28, Apr. 13-16. Records good except those above 140 ft³/s, which are fair. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station.

AVERAGE DISCHARGE.--32 years (1954-86), 2.23 ft³/s.

EXTREMES FOR PERIOD OF RECORD (SINCE 1954).--Maximum discharge, 294 ft³/s June 30, 1984, gage height, 5.78 ft, from rating curve extended above 130 ft³/s; no flow at times each year since 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s Nov. 17, gage height, 1.96 ft, from rating curve extended above 130 ft³/s; no flow for all or part of many days during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.04	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00
16	.00	.50	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
17	.00	9.6	.00	.00	.00	.00	7.8	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	1.0	.00	1.6	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.29	.00	.12	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00
22	.00	.00	.00	.00	.00	.00	.00	2.5	.00	.00	.01	.00
23	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00
26	.00	.00	.00	6.5	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	3.1	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	2.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	1.8	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.01	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	14.41	.00	9.60	1.29	1.01	9.81	2.71	.00	.22	.21	.49
MEAN	.00	.48	.00	.31	.05	.03	.33	.09	.00	.01	.01	.02
MAX	.00	9.6	.00	6.5	1.0	1.0	7.8	2.5	.00	.22	.14	.33
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1985 TOTAL 135.83 MEAN .37 MAX 18 MIN .00
WTR YR 1986 TOTAL 39.75 MEAN .11 MAX 9.6 MIN .00

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site. Where "Drainage area" column is blank, drainage area was not available at time of publication.

Discharge measurements made at low-flow partial-record stations during water year 1986

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01302200	Whitney Lake Outlet at Manhasset, N.Y.	Lat 40°47'30", long 73°42'32", Nassau County, at bridge on Creek Road, at Manhasset, 0.25 mi northwest of State Highway 25A.	--	1953-86	3- 6-86 6-17-86	1.8 .88
01302300	Roslyn Brook at Roslyn, N.Y.	Lat 40°47'55", long 73°38'51", Nassau County, at Roslyn, 200 ft downstream from dam in Roslyn Park.	--	1953-86	3- 5-86 6-17-86	.26 .32
01302800	Island Swamp Brook at Lattingtown, N.Y.	Lat 40°53'25", long 73°37'10", Nassau County, at bridge on Lattingtown Road, 0.3 mi southwest of Lattingtown, and 1.5 mi northwest of Locust Valley.	--	1953-86	3- 5-86 6-17-86	.65 .76
01303600	Mill Creek near Huntington, N.Y.	Lat 40°52'56", long 73°25'17", Suffolk County, at culvert on Creek Road, 300 ft west on New York Ave., 1 mi northeast of Huntington.	--	1953-86	10-18-85 1-14-86 4-21-86 7- 1-86	5.8 3.9 1.8 3.6
01303700	Stony Hollow Run at Centerport, N.Y.	Lat 40°53'05", long 73°21'41", Suffolk County, at culvert on State Highway 25A, 0.25 mi east of Centerport, and 1.5 mi southwest of Northport.	--	1953-86	10- 7-85 1-14-86 4-21-86 7- 1-86	.78 .84 1.0 .33
01303742	Fresh Pond Outlet at Fort Salonga, N.Y.	Lat 40°55'26", long 73°17'43", Suffolk County, 200 ft downstream from Fresh Pond outlet, 0.75 mi north of Fort Salonga.	--	1977-86	10- 9-85 1-14-86 4-21-86 7- 1-86	1.4 .74 1.2 .14
01303790	Northeast Branch Nissequogue River near East Hauppauge, N.Y.	Lat 40°50'27", long 73°10'41", Suffolk County, at culvert on State Highway 347, 1.5 mi northwest of East Hauppauge, and 4.0 mi upstream from gaging station near Smithtown.	--	1972-86	10- 8-85 1-21-86 4-25-86 7-29-86	.27 .50 .32 1.2
01303800	Northeast Branch Nissequogue River at Smithtown, N.Y.	Lat 40°51'05", long 73°11'15", Suffolk County, 300 ft upstream from culvert on State Highway 111, 0.75 mi southeast of Smithtown, and 3.0 mi upstream from gaging station near Smithtown.	--	1948-49 1951-76 1979-86	10- 8-85 1-21-86 4-25-86 7-29-86	1.2 1.2 3.2 1.8
01303850	Northeast Branch Nissequogue River near Hauppauge, N.Y.	Lat 40°50'43", long 73°11'50", Suffolk County, at culvert on Maple Avenue, 0.75 mi south of Smithtown, and 2.5 mi upstream from gaging station near Smithtown.	--	1972-86	10- 8-85 1-21-86 4-25-86 7-29-86	1.6 2.6 3.3 4.3

Discharge measurements made at low-flow partial-record stations during water year 1986--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01303900	Northeast Branch Nissequogue River near Smithtown, N.Y.	Lat 40°50'45", long 73°12'29", Suffolk County, 10 ft upstream from culvert at Brooksite Drive, 0.75 mi southwest of Smithtown, and 2.0 mi upstream from gaging station near Smithtown.	--	1953-86	10- 8-85 1-21-86 4-25-86 7-29-86	4.4 4.2 4.3 6.9
01303941	Nissequogue River near Hauppauge, N.Y.	Lat 40°50'30", long 73°13'43", Suffolk County, 30 ft downstream from dam at New Mill Road, 2 mi northwest of Hauppauge, and 0.5 mi upstream from gaging station near Smithtown.	--	1972-86	10- 8-85 1-21-86 4-25-86 7-29-86	16. 10. 21. 42.
01304010	Nissequogue River at Smithtown, N.Y.	Lat 40°51'48", long 73°12'05", Suffolk County, at culvert on Landing Ave., at Smithtown, and 1.5 mi downstream from gaging station near Smithtown.	--	1974-86	10- 8-85 1-21-86 4-25-86 7-29-86	42. 43. 46. 71.
01304051	Stony Brook at Stony Brook, N.Y.	Lat 40°54'53", long 73°08'52", Suffolk County, 100 ft downstream from Harbor Road, at Stony Brook.	--	1977-86	10- 9-85 1-22-86 4-22-86 7- 1-86	1.3 1.0 1.8 1.4
01304060	Unnamed tributary to Conscience Bay at Setauket, N.Y.	Lat 40°56'49", long 73°07'01", Suffolk County, 30 ft downstream from pond below Old Field Road, at Setauket.	--	1977-86	10- 9-85 1-22-86 4-22-86 7- 1-86	1.4 1.7 1.1 1.1
01304065	Unnamed tributary to Setauket Harbor at East Setauket, N.Y.	Lat 40°56'35", long 73°06'08", Suffolk County, at culvert on State Highway 25A, at East Setauket.	--	1977-86	10- 9-85 1-22-86 4-22-86	.16 .26 .42
01304070	Unnamed tributary to Port Jefferson Harbor at Port Jefferson, N.Y.	Lat 40°56'41", long 73°04'18", Suffolk County, at culvert on Barnum Ave., at Port Jefferson.	--	1977-86	10- 9-85 1-22-86 4-22-86 7- 1-86	.35 .58 1.2 1.3
01304100	Wading River at Wading River, N.Y.	Lat 40°57'20", long 72°51'19", Suffolk County, at pond outlet, 0.25 mi west of Wading River.	--	1953-62 1964-83 1985-86	10-17-85 1- 9-86 4-25-86 7-22-86	1.4 .70 .60 .38
01304150	Fresh Pond Outlet, at Baiting Hollow, N.Y.	Lat 40°57'43", long 72°46'17", Suffolk County, 25 ft downstream from dirt road at outlet of Fresh Pond, 0.7 mi northwest of Baiting Hollow.	--	1977-86	1- 9-86 4-14-86	.38 .37
01304400	Peconic River at Manorville, N.Y.	Lat 40°52'38", long 72°49'42", Suffolk County, at bridge on Schultz Road, 1 mi northwest of Manorville, and 8.5 mi upstream from gaging station at Riverhead.	--	1948-49 1951-86	10-16-85 1-23-86 4-25-86 7-22-86	.60 1.9 2.7 .02
01304510	Peconic River at Nugent Drive, at Riverhead, N.Y.	Lat 40°55'03", long 72°40'11", Suffolk County, at bridge on Nugent Drive, at Riverhead, and 1.4 mi downstream from gaging station at Riverhead.	--	1976-86	10-16-85 1-23-86 4-25-86 7-22-86	29. 47. 73. 41.
01304530	Little River near Riverhead, N.Y.	Lat 40°53'52", long 72°40'30", Suffolk County, at Wildwood Lake outlet, 500 ft east of Moriches-Riverhead Road, 1.5 mi southwest of Riverhead.	--	1952-86	10- 9-85 1- 9-86 4-14-86 7-22-86	4.6 3.3 2.5 1.8
01304560	White Brook at Riverhead, N.Y.	Lat 40°54'40", long 72°38'37", Suffolk County, at culvert on State Highway 24, 1 mi southeast of Riverhead.	--	1953-69 1973-86	10- 9-85 1- 9-86 4-14-86 7-22-86	1.2 1.3 2.5 1.8

Discharge measurements made at low-flow partial-record stations during water year 1986--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01304600	Big Fresh Pond Outlet at North Sea, N.Y.	Lat 40°55'49", long 72°25'04", Suffolk County, at culvert on Noyack Road, at North Sea, 3.5 mi northwest of Southampton.	--	1951-69 1971-86	10-10-85 1- 7-86 4-15-86 7-23-86	0.07 .40 .70 .18
01304630	Mill Creek at Noyack, N.Y.	Lat 40°59'35", long 72°21'00", Suffolk County, 50 ft upstream from culvert on Noyack Road, 0.25 mi west of Noyack.	--	1958-86	10-10-85 1- 7-86 4-15-86 7-23-86	.24 .47 .90 .34
01304660	Ligonee Brook at Sag Harbor, N.Y.	Lat 40°59'21", long 72°18'12", Suffolk County, at culvert on Brick Kiln Road, 0.75 mi southwest of Sag Harbor.	--	1953-69 1973-86	10-10-85 1- 7-86 4-15-86 7-23-86	0 0 .01 0
01304730	Poxabogue Pond Outlet at Sagaponack, N.Y.	Lat 40°55'48", long 72°17'16", Suffolk County, at culvert on Sagg St., at Sagaponack, and 1 mi southeast of Bridgehampton.	--	1953-78 1980-86	10- 9-85	1.1
01304745	Weesuck Creek at East Quogue, N.Y.	Lat 40°50'52", long 72°34'42", Suffolk County, at culvert on State Highway 27A, 0.5 mi northeast of East Quogue.	--	1974-86	10-10-85 1- 7-86 4-15-86 7-30-86	1.5 1.7 1.2 2.2
01304760	Quantuck Creek at Quogue, N.Y.	Lat 40°49'57", long 72°37'06", Suffolk County, at culvert in Old Meeting House Road, 1 mi northwest of Quogue.	--	1953-69 1974-86	10- 8-85 1- 7-86 4-15-86 7-23-86	2.0 1.7 1.4 1.2
01304780	Aspatuck Creek near Westhampton Beach, N.Y.	Lat 40°49'04", long 72°38'13", Suffolk County, at culvert on Brook Road, at Westhampton Beach.	--	1959-86	10- 8-85 1- 7-86 4-15-86 7-23-86	1.1 1.2 1.8 1.2
01304800	Beaverdam Creek at Westhampton Beach, N.Y.	Lat 40°49'23", long 72°39'42", Suffolk County, at culvert on Old Country Road, 100 ft northwest of State Highway 27A, and 1 mi northwest of Westhampton.	--	1953-86	10- 8-85 1- 7-86 4-15-86 7-23-86	.36 .80 .54 .67
01304820	Speonk River at Speonk, N.Y.	Lat 40°49'06", long 72°41'29", Suffolk County, at culvert on State Highway 27A, 0.75 mi east of Speonk.	--	1974-86	1- 7-86 4-14-86 7-23-86	.17 .44 .14
01304830	East River at Eastport, N.Y.	Lat 40°49'24", long 72°43'02", Suffolk County, 15 ft upstream from culvert on Long Island Railroad, 200 ft south of State Highway 27A, 0.5 mi east of Eastport.	--	1953-69 1973-86	10- 8-85 1- 7-86 4-14-86 7-23-86	.64 .45 .88 .86
01304860	Seatuck Creek at Eastport, N.Y.	Lat 40°49'30", long 72°43'43", Suffolk County, 15 ft downstream from culvert on State Highway 27A, at Eastport.	--	1953-86	10- 7-85 1- 7-86 4-14-86 7-23-86	7.1 2.2 4.7 2.6
01304900	Little Seatuck Creek at Eastport, N.Y.	Lat 40°49'12", long 72°44'23", Suffolk County, at culvert on Moriches Blvd., 0.75 mi southwest of Eastport.	--	1955-69 1974-86	10 -8-85 1- 6-86 4-15-86 7-23-86	3.1 2.1 3.9 4.1
01304960	Forge River at Moriches, N.Y.	Lat 40°48'22", long 72°50'00", Suffolk County, at culvert on State Highway 27A, at Moriches.	--	1948-50 1952-86	10- 7-85 1- 6-86 4-14-86 7-15-86	5.0 5.4 4.4 3.8

Discharge measurements made at low-flow partial-record stations during water year 1986--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01304990	Carmans River at Middle Island, N.Y.	Lat 40°51'47", long 72°56'35", Suffolk County, at culvert on East Bartlett Road, 0.75 mi south of Middle Island, and 3.0 mi upstream from gaging station at Yaphank.	--	1947-86	10-17-85 1- 2-86 4-16-86 7-24-86	0.64 .46 1.1 .05
01304995	Carmans River near Yaphank, N.Y.	Lat 40°50'29", long 72°56'13", Suffolk County, 25 ft downstream from Mill Road, 1.2 mi northwest of Yaphank, and 1.9 mi upstream from gaging station at Yaphank.	--	1973-86	10-17-85 1- 2-86 4-16-86 7-24-86	7.3 4.2 7.5 3.8
01304998	Carmans River, below Lower Lake, at Yaphank, N.Y.	Lat 40°50'07", long 72°55'01", Suffolk County, at culvert on Yaphank Avenue, at Yaphank, and 0.7 mi upstream from gaging station at Yaphank.	--	1973-86	10-17-85 1- 2-86 4-16-86 7-24-86	13. 16. 13. 11.
01305040	Carmans River at South Haven, N.Y.	Lat 40°48'09", long 72°53'09", Suffolk County, 50 ft upstream from culvert on State Highway 27, at South Haven, and 2.6 mi downstream from gaging station at Yaphank.	--	1973-86	10-17-85 1- 2-86 4-16-86 7-24-86	87. 90. 99. 58.
01305300	Mud Creek at East Patchogue, N.Y.	Lat 40°45'47", long 72°58'59", Suffolk County, at culvert on South Country Road, at East Patchogue, 2 mi east of Patchogue.	--	1947-69 1971-86	10- 7-85 1- 3-86 4-14-86 7-15-86	2.0 2.7 4.4 3.1
01305800	Patchogue River near Patchogue, N.Y.	Lat 40°46'55", long 73°01'19", Suffolk County, at bridge on discontinued road, 300 ft west of North Ocean Ave., and 1 mi north of State Highway 27A and gaging station at Patchogue.	--	1945-50 1952-86	10- 7-85 1-30-86 7-30-86	7.9 7.8 6.7
01306000c/	Patchogue River at Patchogue, N.Y.	Lat 40°45'56", long 73°01'16", Suffolk County, at State Highway 27A, at Patchogue.	--	1946-69‡ 1970-73 1974-76‡ 1977-86	10- 7-85 1- 3-86	13. 18.
01306400	Green Creek at West Sayville, N.Y.	Lat 40°43'51", long 73°05'32", Suffolk County, 30 ft upstream from State Highway 27A at West Sayville.	--	1953-86	10- 7-85 1- 3-86 4- 3-86 7-15-86	4.3 4.7 7.0 6.1
01306405	Lake Ronkonkoma Inlet at Lake Ronkonkoma, N.Y.	Lat 40°49'57", long 73°07'34", Suffolk County, 300 ft southeast of Smithtown Blvd., 0.2 mi west of Lake Ronkonkoma.	--	1948-49 1953-54 1977-79 1981-86	10-18-85 1- 7-86 4-21-86 7-21-86	1.1 .56 .76 .34
01306470	Connetquot Brook near Oakdale, N.Y.	Lat 40°45'47", long 73°09'10", Suffolk County, 100 ft downstream from fish hatchery, and 1.1 mi upstream from gaging station 01306499.	--	1968 1973-86	10-18-85 3- 6-86	22. 46.
01306700	Rattlesnake Brook near Oakdale, N.Y.	Lat 40°44'52", long 73°08'45", Suffolk County, 50 ft downstream from State Highway 27, 1.5 mi northwest of Oakdale.	--	1944-69 1971-86	10-18-85 1- 3-86 4- 3-86 7-15-86	18. 14. 23. 21.
01307000c/	Champlin Creek at Islip, N.Y.	Lat 40°44'13", long 73°12'08", Suffolk County, at Long Island Railroad bridge, 220 ft downstream from Moffitt Boulevard, at Islip.	--	1948-69‡ 1970-86	10-29-85 1-31-86	3.6 3.7

‡ Operated as a continuous-record gaging station.
c/ Water-quality data included in this report.

Discharge measurements made at low-flow partial-record stations during water year 1986--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01307100	Champlin Creek at Montauk Highway, at Islip, N.Y.	Lat 40°43'50", long 73°12'12", Suffolk County, at Montauk Highway, at Islip, and 0.45 mi downstream from gaging station at Islip.	--	1963 1967 1973 1975-86	3- 5-86	1.6
01307300	Pardees Ponds Outlet at Islip, N.Y.	Lat 40°43'40", long 73°13'16", Suffolk County, at culvert on State Highway 27A, at Islip.	--	1948-72 1974-86	10-24-85 3- 4-86 6-18-86	7.1 4.7 3.7
01307400	Awixa Creek at Islip, N.Y.	Lat 40°43'39", long 73°13'51", Suffolk County, at culvert on State Highway 27A, 0.75 mi west of Islip.	--	1948-86	10-24-85 3- 4-86 6-18-86	.61 1.5 1.1
01307500c/	Penataquit Creek at Bay Shore, N.Y.	Lat 40°43'37", long 73°14'41", Suffolk County, at Union Avenue, at Bayshore.	--	1945-76‡ 1977-86	10-29-85 1-31-86	4.6 4.0
01307600	Cascade Lakes Outlet at Brightwaters, N.Y.	Lat 40°42'40", long 73°15'38", Suffolk County, at culvert on Montauk Highway, at Brightwaters.	--	1958-86	10-22-85 3- 4-86 5-30-86 6-18-86	1.6 1.6 1.2 1.3
01307920	Sampawams Creek near Deer Park, N.Y.	Lat 40°44'27", long 73°18'24", Suffolk County, 30 ft downstream from Bay Shore Road, and 2.5 mi upstream from gaging station at Babylon.	--	1965-66 1973-86	10-22-85 3- 4-86 6-11-86	.75 2.3 1.6
01307950	Sampawams Creek near North Babylon, N.Y.	Lat 40°43'37", long 73°18'46", Suffolk County, 120 ft downstream from Hunter Avenue, and 1.6 mi upstream from gaging station at Babylon.	--	1967 1971-86	10-22-85 3- 4-86 6-11-86	1.2 3.5 1.6
01308200	Sampawams Creek below Hawleys Lake, at Babylon, N.Y.	Lat 40°41'48", long 73°19'04", Suffolk County at pond outlet, 200 ft upstream from State Highway 27A, at Babylon, and 0.5 mi downstream from gaging station at Babylon.	--	1953-67 1969-86	10-22-85 3- 4-86 6-11-86	9.4 7.9 9.0
01309000c/	Santapogue Creek at Lindenhurst, N.Y.	Lat 40°41'30", long 73°21'20", Suffolk County, at culvert on East Hoffman Avenue, 1 mi east of Long Island Railroad station at Lindenhurst.	--	1947-69‡ 1970-86	10-25-85 1-31-86	.55 2.1
01309100	Santapogue Creek at State Highway 27A, Lindenhurst, N.Y.	Lat 40°41'02", long 73°21'06", Suffolk County, at culvert on State Highway 27A, 0.5 mi downstream from gaging station at Lindenhurst.	--	1953-69 1971-86	3- 5-86 5-30-86	5.6 3.7

‡ Operated as a continuous-record gaging station.
c/ Water-quality data included in this report.

Discharge measurements made at low-flow partial-record stations during water year 1986--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01309200	Neguntatogue Creek at Lindenhurst, N.Y.	Lat 40°40'47", long 73°21'40", Suffolk County, 20 ft upstream from State Highway 27A, in Lindenhurst.	--	1948-50 1952-86	11- 1-85 5-30-86	1.9 3.0
01309250	Strongs Creek at Lindenhurst, N.Y.	Lat 40°40'22", long 73°22'40", Suffolk County, 30 ft upstream from State Highway 27A, at Lindenhurst.	--	1953-69 1971-86	11- 1-85 3- 4-86 5-30-86	.53 .54 .72
01309350	Amityville Creek at Amityville, N.Y.	Lat 40°40'13", long 73°24'51", Suffolk County, 100 ft upstream from State Highway 27A, at Amityville.	--	1953-86	3- 4-86 5-30-86	2.1 1.7
01309400	Carman Creek at Amityville, N.Y.	Lat 40°40'09", long 73°26"02", Nassau County, at bridge on State Highway 27A, 0.75 mi west of Amityville.	--	1949 1953-69 1971-86	3- 3-86	4.1
01309454	Massapequa Creek at South Farmingdale, N.Y.	Lat 40°42'55", long 73°27'00", Nassau County, 75 ft upstream from Tomes Avenue, 0.2 mi south of South Farmingdale, and 1.9 mi upstream from gaging station at Massapequa.	--	1962-65 1973-78 1980-86	10-25-85 2-28-86 6-16-86	0 0 0
01309476	Massapequa Creek at Southern State Parkway, at South Farmingdale, N.Y.	Lat 40°42'21", long 73°27'05", Nassau County, 30 ft upstream from culvert at Southern State Parkway, 0.8 mi south of South Farmingdale, and 1.2 mi upstream from gaging station at Massapequa.	--	1962-65 1973-86	10-25-85 2-28-86 6-16-86	0 .64 0
01309490	Massapequa Creek at North Massapequa, N.Y.	Lat 40°41'55", long 73°27'08", Nassau County, opposite Franklin Street, at North Massapequa, and 0.55 mi upstream from gaging station at Massapequa.	--	1962 1964 1973-86	10-25-85 2-28-86 6-16-86	.50 .83 .32
01309700	Seaford Creek at Seaford, N.Y.	Lat 40°40'00", long 73°28'57", Nassau County, at bridge on State Highway 27A, in Seaford.	--	1953-86	3- 3-86 5-29-86	1.4 .55
01309800	Seamans Creek at Seaford, N.Y.	Lat 40°39'56", long 73°29'37", Nassau County, at culvert on State Highway 27A, 0.2 mi west of Seaford.	--	1953-67 1971-81 1983-86	3- 3-86 5-29-86	2.1 4.3
01309970	Bellmore Creek tributary near North Wantagh, N.Y.	Lat 40°41'52", long 73°30'33", Nassau County, at culvert on Duck Pond Drive North, 0.3 mi north of North Wantagh, and 1.2 mi upstream from gaging station 01309990.	--	1973-86	10-28-85 2-28-86 6-16-86	0 0 0
01309980	Bellmore Creek tributary at North Wantagh, N.Y.	Lat 40°41'20", long 73°30'37", Nassau County, at culvert on Beltagh Avenue, at North Wantagh, and 0.6 mi upstream from gaging station 01309990.	--	1973-86	10-28-85 2-28-86 6-16-86	0 .13 0
01310100	Newbridge Creek at Merrick, N.Y.	Lat 40°39'42", long 73°32'02", Nassau County, downstream from bridge on Merrick Road in Merrick.	--	1963-86	2-28-86 5-29-86	.37 .23

Discharge measurements made at low-flow partial-record stations during water year 1986--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Streams on Long Island				
01310200	Cedar Swamp Creek at Merrick, N.Y.	Lat 40°39'39", long 73°32'24", Nassau County, at bridge on State Highway 27A, in Merrick, 2.5 mi east of Freeport.	--	1953-62 1965-86	3- 3-86 5-29-86	5.1 3.0
01310470	East Meadow Brook near Westbury, NY.	Lat 40°44'01", long 73°35'06", Nassau County, 50 ft downstream from culvert on Meadowbrook State Parkway, 1.0 mi south of Westbury, and 4.8 mi upstream from gage at Freeport.	--	1973-86	2-28-86 6-16-86	.44 .26
01310475	East Meadow Brook at Uniondale, N.Y.	Lat 40°43'17", long 73°35'00", Nassau County, at bridge on Hempstead Turnpike, 0.9 mi northeast of Uniondale, and 3.9 mi upstream from gage at Freeport.	--	1973-86	3-28-86 6-16-86	1.1 .68
01310488	East Meadow Brook at East Meadow, N.Y.	Lat 40°41'56", long 73°34'37", Nassau County, 300 ft west of Luddington Road, 1.4 mi southwest of East Meadow, and 2.3 mi upstream from gage at Freeport.	--	1973-86	3-28-86 6-16-86	.04 0
01310510	East Meadow Pond Outlet at Freeport, N.Y.	Lat 40°39'32", long 73°34'01", Nassau County, 50 ft (15 m) downstream from culvert at Sunrise Highway, and 0.5 mi (0.8 km) downstream from gaging station 01310500.	--	1975-80 1986	2-28-86	5.0
01310515	Freeport Creek at Freeport, N.Y.	Lat 40°39'28", long 73°34'22", Nassau County, 20 ft (6 m) upstream from culvert at Sunrise Highway, and 0.5 mi (0.8 km) downstream from gaging station 01310500.	--	1975-80 1986	2-28-86	.28
01310600	Milburn Creek at Baldwin, N.Y.	Lat 40°39'04", long 73°36'13", Nassau County, 50 ft downstream from bridge on State Highway 27A, 0.5 mi east of Baldwin.	--	1953-86	3- 3-86	3.0
01310700	Parsonage Creek at Baldwin, N.Y.	Lat 40°38'48", long 73°36'59", Nassau County, 20 ft downstream from bridge on Foxhurst Road, at Baldwin.	--	1953-69 1971-81 1983-84 1986	3- 5-86 5-29-86	1.9 .54
01310800	South Pond Outlet at Rockville Centre, N.Y.	Lat 40°40'00", long 73°39'08", Nassau County, at bridge on Lakeview Ave., 0.75 mi north of Rockville Centre.	--	1953-86	10-22-85 1- 6-86 3- 5-86 6-17-86	0 0 0 0
01311200	Motts Creek at Valley Stream, N.Y.	Lat 40°39'01", long 73°42'45", Nassau County, 50 ft downstream from bridge on Rosedale Road, 1 mile southwest of Valley Stream.	--	1954-86	10-22-85 1- 6-86 3- 6-86 6-17-86	0 0 .48 0
01311700	Valley Stream, below West Branch, at Valley Stream, N.Y.	Lat 40°39'47", long 73°42'21", Nassau County, 200 ft downstream from West Branch, 500 ft downstream from bridge on West Valley Stream Blvd., at village park in Valley Stream, and 500 ft downstream from gaging station.	--	1953-86	10-22-85 1- 6-86 3- 6-86 6-17-86	0 0 0 0

LONG ISLAND

AT BAY PARK, NY

LOCATION.--Lat 40°37'39", long 73°39'45", Nassau County, at Bay Park Sewage Treatment Plant on roof of Nassau County Department of Health Air Quality Station, Bay Park.

PERIOD OF RECORD.--October 1978 to September 1982, January to September 1986 (monthly composite). January to September 1986 (monthly dustfall).

QUIPMENT.--The wetfall and dustfall sample collector is an N-Con Atmospheric Deposition Sampler* wet/dry precipitation collector. An automatic sensor detects occurrences of precipitation, activating a motor which removes a cover from the wetfall collection vessel and covers the dustfall collection vessel. When precipitation ceases the cycle is reversed. The sampling vessels are polyethylene and have a collection diameter of 12 in. and a capacity of 3.5 gals. The opening of the collecter is approximately 15 ft above ground level.

REMARKS.--Inches of precipitation is that recorded by the U.S. Geological Survey for the period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

MONTHLY COMPOSITE

DATE	PRECIP-ITATION INCHES	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
JAN 07--24	--	--	--	1.5	0.51	3.0	0.15
JAN 31-MAR 04	2.58	44	4.22	0.38	0.14	0.39	0.04
MAR 04-APR 01	1.91	26	5.50	1.4	0.60	1.2	0.07
JUL 01-AUG 01	3.43	--	--	0.58	0.27	0.63	0.04
AUG 01-SEP 03	2.98	29	4.50	0.65	0.40	0.60	0.08
SEP 03-OCT 07	2.19	51	4.06	1.4	0.60	1.1	0.06

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JAN 07-24	4.3	4.7	0.08	--	0.850	<0.010
JAN 31-MAR 04	4.5	0.69	0.03	--	0.640	<0.010
MAR 04-APR 01	4.7	2.0	0.02	--	0.470	<0.010
JUL 01-AUG 01	5.3	1.1	0.02	0.280	0.780	<0.010
AUG 01-SEP 03	4.9	1.1	0.01	0.157	0.620	<0.010
SEP 03-OCT 07	7.5	1.9	0.04	0.257	1.10	0.040

* The use of the brand name in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

CHEMICAL QUALITY OF PRECIPITATION

LONG ISLAND

AT BAY PARK, NY--Continued

CHEMICAL ANALYSES, OCTOBER 1985 TO SEPTEMBER 1986

MONTHLY DUSTFALL

DATE	PRECIPITATION INCHES	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JAN 31-MAR 04	--	92	3.79	2.4	1.2	0.10	0.17
MAR 04-APR 01	--	--	--	>5.0	>5.0	>5.0	0.90
APR 30-JUN 04	--	--	--	16	11	16	3.1
JUN 04-JUL 01	--	--	--	16	5.5	8.4	1.2
JUL 01-AUG 01	--	161	7.96	40	7.0	10	1.6
AUG 01-SEP 03	--	273	6.09	3.9	3.3	7.0	1.4
SEP 03-OCT 07	--	145	3.88	28	10	12	1.2

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
JAN 31-MAR 04	15	3.7	0.09	1.00	1.70	<0.010
MAR 04-APR 01	39	28	0.20	--	--	<0.010
APR 30-JUN 04	53	19	0.20	2.50	--	0.200
JUN 04-JUL 01	14	37	0.10	0.830	--	0.030
JUL 01-AUG 01	83	29	<0.40	0.390	12.0	<0.010
AUG 01-SEP 03	88	32	0.20	0.023	13.7	<0.010
SEP 03-OCT 07	70	26	0.20	0.404	--	0.020

LONG ISLAND

AT EAST MEADOW, NY

LOCATION.--Lat 40°44'36", long 73°35'10", Nassau County, at the New York State Department of Environmental Conservation Air Quality Station on roof of trailer at Merrick Avenue, Eisenhower Park, East Meadow.

PERIOD OF RECORD.--Water years: August 1976 to September 1982, January to September 1986 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel, approximately 6.0 in. in diameter, which drains into a 2-liter Teflon* receiving bottle. The receiving bottle is enclosed in an insulated box which is heated during the cold weather season to aid in full collection of snow. The opening for the collector is approximately 12 ft above ground level.

REMARKS.--Inches of precipitation is that recorded by the U.S. Geological Survey for the period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	PRECIP-ITATION INCHES	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
JAN 02-FEB 04	4.13	--	5.95	1.5	0.92	>5.0	0.18
FEB 04-MAR 04	2.47	61	5.22	2.0	1.3	6.7	0.08
MAR 04-APR 01	2.02	51	6.45	2.6	1.4	2.9	0.10
APR 01-30	3.25	37	5.18	1.9	0.92	0.11	0.05
APR 30-JUN 04	1.19	85	6.65	4.1	2.1	1.5	0.70
JUN 04-JUL 01	1.99	57	6.30	2.6	1.3	0.72	0.41
JUL 01-AUG 01	9.25	--	--	0.54	0.24	0.21	0.04
AUG 01-SEP 03	3.62	21	4.15	0.65	0.34	0.31	0.06
SEP 03-OCT 07	2.65	40	5.07	1.9	0.93	0.59	0.11

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JAN 02-FEB 04	4.2	12	0.10	--	0.720	<0.010
FEB 04-MAR 04	7.6	9.9	0.10	--	1.40	<0.010
MAR 04-APR 01	6.2	4.3	0.08	--	1.30	<0.010
APR 01-30	7.6	1.6	0.07	0.860	0.990	0.020
APR 30-JUN 04	12	3.0	0.18	16.0	2.90	0.040
JUN 04-JUL 01	8.8	1.5	0.11	2.40	1.50	0.050
JUL 01-AUG 01	4.7	0.51	0.03	0.310	0.640	<0.010
AUG 01-SEP 03	6.7	0.70	0.02	0.520	0.660	<0.010
SEP 03-OCT 07	7.4	1.3	0.06	1.60	1.80	<0.010

* The use of the brand name in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

LONG ISLAND

AT MONTAUK, NY

LOCATION.--Lat 41°02'43", long 71°55'44", Suffolk County, at Suffolk County Water Authority pumping station, Montauk.

PERIOD OF RECORD.--November 1985 to September 1986 (monthly composite).
January to September 1986 (monthly dustfall).

EQUIPMENT.--The wetfall and dustfall sample collector is an Aerochem Metrics Model 101* wet/dry precipitation collector. An automatic sensor detects occurrences of precipitation, activating a motor which removes a cover from the wetfall collection vessel and covers the dustfall collection vessel. When precipitation ceases the cycle is reversed. The sampling vessels are polyethyleme and have a collection diameter of 12 in. and a capacity of 3.5 gals. The opening of the collector is approximately 3 ft above ground level.

REMARKS.--Inches of precipitation is that recorded by Brookhaven National Laboratory for the period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

MONTHLY COMPOSITE

DATE	PRECIP-ITATION INCHES	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV 07-DEC 03	4.03	--	--	1.9	0.38	3.9	0.14
JAN 27-FEB 03	.40	--	3.73	0.26	0.33	3.2	0.10
FEB 03-MAR 10	2.54	37	4.08	0.12	0.13	1.1	0.08
MAR 10-APR 02	2.55	27	4.39	0.21	0.18	1.6	0.07
APR 02-MAY 01	1.88	56	3.84	0.17	0.21	0.10	0.09
MAY 01-JUN 05	1.85	32	4.18	0.10	0.07	0.53	0.03
JUN 05-JUL 03	6.93	17	3.98	0.03	0.06	0.40	0.03
JUL 03-AUG 06	7.90	--	--	0.02	0.05	0.35	0.05
AUG 06-SEP 05	3.32	17	4.92	1.0	1.0	1.1	0.09
SEP 05-OCT 04	2.12	50	4.00	0.14	0.12	1.2	0.07

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 07-DEC 03	2.8	7.0	0.04	0.100	0.330	<0.010
JAN 27-FEB 03	4.5	5.2	0.19	--	1.70	0.030
FEB 03-MAR 10	3.8	1.9	0.09	--	0.610	<0.010
MAR 10-APR 02	2.2	3.0	0.01	--	0.310	<0.010
APR 02-MAY 01	5.4	3.3	0.02	0.440	0.690	0.020
MAY 01-JUN 05	3.6	0.86	0.02	0.300	0.550	<0.010
JUN 05-JUL 03	1.5	0.72	<0.01	0.118	0.180	<0.010
JUL 03-AUG 06	2.6	0.68	0.01	0.170	0.330	<0.010
AUG 06-SEP 05	1.7	2.1	0.02	0.102	0.190	<0.010
SEP 05-OCT 04	4.0	2.0	0.02	0.294	0.660	0.030

* The use of the brand name in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

LONG ISLAND

AT MONTAUK, NY--Continued

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1986

MONTHLY DUSTFALL

DATE	PRECIPITATION INCHES	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JAN 03-							
FEB 03	--	--	--	3.3	3.2	>5.0	1.0
FEB 03-							
MAR 10	--	--	--	4.8	3.6	23	0.80
MAR 10-							
APR 02	--	--	--	2.9	3.3	>5.0	0.80
APR 02-							
MAY 01	--	--	--	2.6	2.2	10	1.6
MAY 01-							
JUN 05	--	--	--	4.0	2.7	10	2.0
JUN 05-							
JUL 03	--	--	--	0.22	0.14	0.82	0.07
JUL 03-							
AUG 06	--	161	7.96	3.9	2.9	8.9	9.4
AUG 06-							
SEP 05	--	273	6.09	0.02	3.3	20	1.4
SEP 05-							
OCT 04	--	34	6.76	2.2	2.2	11	3.1

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
JAN 03-						
FEB 03	12	32	<0.10	--	--	0.010
FEB 03-						
MAR 10	16	34	0.20	--	--	<0.010
MAR 10-						
APR 02	11	29	0.11	--	2.80	<0.010
APR 02-						
MAY 01	16	9.4	<0.10	--	--	0.430
MAY 01-						
JUN 05	11	10	<0.10	0.189	--	0.010
JUN 05-						
JUL 03	1.9	0.66	0.03	1.10	0.310	0.030
JUL 03-						
AUG 06	41	10	<0.10	5.70	4.38	<1.60
AUG 06-						
SEP 05	22	16	<0.10	0.490	--	<0.030
SEP 05-						
OCT 04	24	13	<0.10	2.60	--	0.700

403852073582301. Local number, K 508.1
LOCATION.--Lat 40°38'53", long 73°58'23", Hydrologic Unit 02030201, at 807 Caton Avenue, Kensington, Brooklyn. Owner: Atlantic Service Corporation.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled unused well, diameter 24 in, depth 120 ft, screened 73 to 116 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 50.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel plate, 0.04 ft above land-surface datum.
PERIOD OF RECORD.--August 1944 to current year. Unpublished records from August 1944 to September 1978 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 13.55 ft NGVD, Dec. 16, 1975; lowest measured, -26.32 ft NGVD, Aug. 21, 1944.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 2	9.10	DEC 3	8.94	JUN 13	9.23	SEP 10	9.22				

403939073542901. Local number, K 1265.1
LOCATION.--Lat 40°39'39", long 73°54'29", Hydrologic Unit 02030202, at Thatford and Riverdale Avenues, East New York, Brooklyn. Owner: City of New York.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven well, diameter 1.5 in, depth 44 ft, screened 42 to 43 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 23.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling 0.01 ft above land-surface datum.
PERIOD OF RECORD.--April 1933 to current year. Unpublished records for 1933-35, 1941-78 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.99 ft NGVD, Sept. 23, 1980; lowest measured, -11.55 ft NGVD, Aug. 22, 1942.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 2	7.48	JUN 13	7.16	SEP 10	7.51						

403605073571201. Local number, K 3247.1
Location.--Lat 40°36'05", long 73°57'12", Hydrologic Unit 02030202, at Avenue T and 19th Street, Sheepshead Bay, Brooklyn. Owner: U.S. Geological Survey.
Aquifer.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 24 ft, screened 21 to 24 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 19 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.39 ft below land-surface datum.
PERIOD OF RECORD.--April 1980 to current year. Unpublished records from April 1980 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.21 ft NGVD, Apr. 9, 1980; lowest measured, 3.21 ft NGVD, Oct. 6, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 2	3.71										

KINGS COUNTY--Continued

403737074011701. Local number, K 3275.1
LOCATION.--Lat 40°37'37", long 74°01'15", Hydrologic Unit 02030202, at 76th Street and 6th Avenue, Bay Ridge, Brooklyn. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 76 ft, screened 73 to 76 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 67 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.15 ft below land-surface datum.
PERIOD OF RECORD.--June 1981 to current year. Unpublished records from June 1981 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.65 ft NGVD, Jan. 5, 1984; lowest measured, 3.35 ft NGVD, Dec. 21, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	4.09										

404135073584001. Local number, K 3276.1
LOCATION.--Lat 40°41'34", long 73°58'41", Hydrologic Unit 02030201, at Myrtle Avenue and St. Edwards Street, Fort Greene, Brooklyn. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 54 ft, screened 51 to 54 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface Datum is 38 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, at land-surface datum.
PERIOD OF RECORD.--April 1981 to current year. Unpublished records from April 1981 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.71 ft NGVD, Jan. 5, 1984; lowest measured, 4.30 ft NGVD, Oct. 1, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	4.30										

NASSAU COUNTY

404048073412602. Local number, N 9.1
LOCATION.--Lat 40°40'48", long 73°41'26", Hydrologic Unit 02030202, at Corona Avenue and Remsen Street, Valley Stream. Owner: Long Island State Park Commission.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in to 4 in, depth 138 ft, screened 98 to138 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 22.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.
REMARKS.--Well also sampled for water quality.
PERIOD OF RECORD.--July 1936 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.57 ft NGVD, Sept. 23, 1938; lowest measured, 5.95 ft NGVD, MAR. 22, 1986.

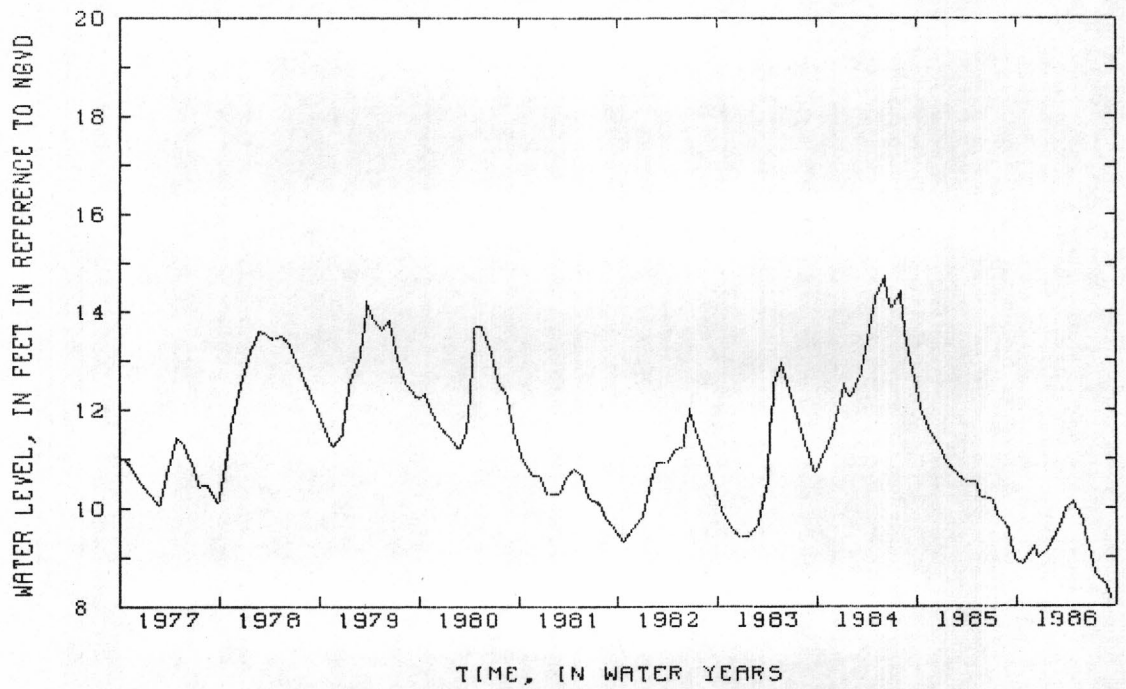
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 28	10.12	APR 14	10.56	JUN 5	10.18	SEP 19	8.53				

403929073382901. Local number, N 53.1
LOCATION.--Lat 40°39'29", long 73°38'29", Hydrologic Unit 02030202, at Maple and Morris Avenues, Rockville Centre. Owner: Village of Rockville Centre.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in, depth 50 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 26.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.24 ft below land-surface datum.
PERIOD OF RECORD.--August 1934 to current year. Unpublished records from August 1934 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.49 ft NGVD, Apr. 15, 1939; lowest measured, 7.85 ft NGVD, Aug. 30, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

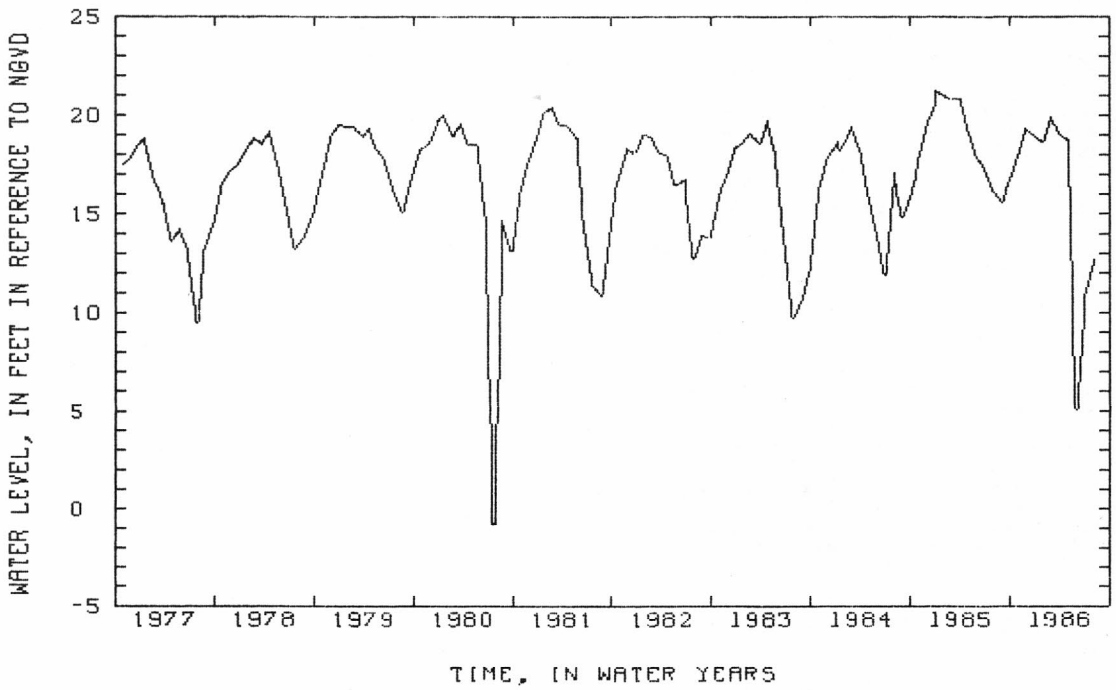
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	8.87	DEC 16	8.99	FEB 25	9.58	APR 25	10.15	JUN 24	9.24	AUG 25	8.43
DEC 2	9.23	JAN 17	9.14	MAR 28	10.00	MAY 28	9.76	JUL 22	8.64	SEP 19	8.15



404931073382101. Local number, N 110.1
LOCATION.--Lat 40°49'31", long 73°38'21", Hydrologic Unit 02030201, at Scudders Lane and Motts Cove Road, Glenwood Landing. Owner: Jericho Water District.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 16 in, reported depth 519 ft, measured depth 324 ft, screened 445 to 515 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 56.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4 inch nipple, 0.44 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well.
PERIOD OF RECORD.--January 1946 to current year. Unpublished records for 1946-48, 1952, 1955, 1961, 1965, 1970-75, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.99 ft NGVD, Dec. 15, 1970; lowest measured, -9.05 ft NGVD, May 22, 1957.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	17.97	DEC 31	18.91	FEB 28	19.88	APR 30	18.73	JUN 30	10.88	JUL 31	12.64
NOV 29	19.33	JAN 31	18.65	MAR 31	18.99	MAY 31	5.05				



NASSAU COUNTY--continued

404030073293703. Local number, N 180.2
LOCATION.--Lat 40°40'30", long 73°29'37", Hydrologic Unit 02030202, at Sunrise Highway and Seamans Neck Road, Seaford. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled unused well, diameter 4 in to 6 in, depth 723 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 15 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 14.69 ft above land-surface datum.
PERIOD OF RECORD.--October 1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.08 ft NGVD, June 6, 1952; lowest measured, 10.63 ft NGVD, July 1, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	14.98	MAR 17	14.56	JUL 1	10.63	SEP 5	12.53				

404609073421602. Local number, N 1102.2
LOCATION.--Lat 40°46'09", long 73°42'16", Hydrologic Unit 02030201, at Long Island Expressway and Community Drive, Lake Success. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 166 ft, screened 161 to 166 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 184 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.32 ft below land-surface datum.
REMARKS.--Replaced well N 1102.1 in March 1963 at same location, which has a period of record from October 1937 to March 1963.
PERIOD OF RECORD.--March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.02 ft NGVD, Apr. 24, 1963; lowest measured, 28.90 ft NGVD, Jan. 19, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 22	35.80										

404039073420001. Local number, N 1110.1
LOCATION.--Lat 40°40'40", long 73°42'01", Hydrologic Unit 02030202, at Henry Street, near Southern State Parkway, North Valley Stream. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 27 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 31 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.80 ft below land-surface datum.
PERIOD OF RECORD.--October 1936 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.81 ft NGVD, Sept. 28, 1938; lowest measured, 5.78 ft NGVD, Sept. 15, 1981.

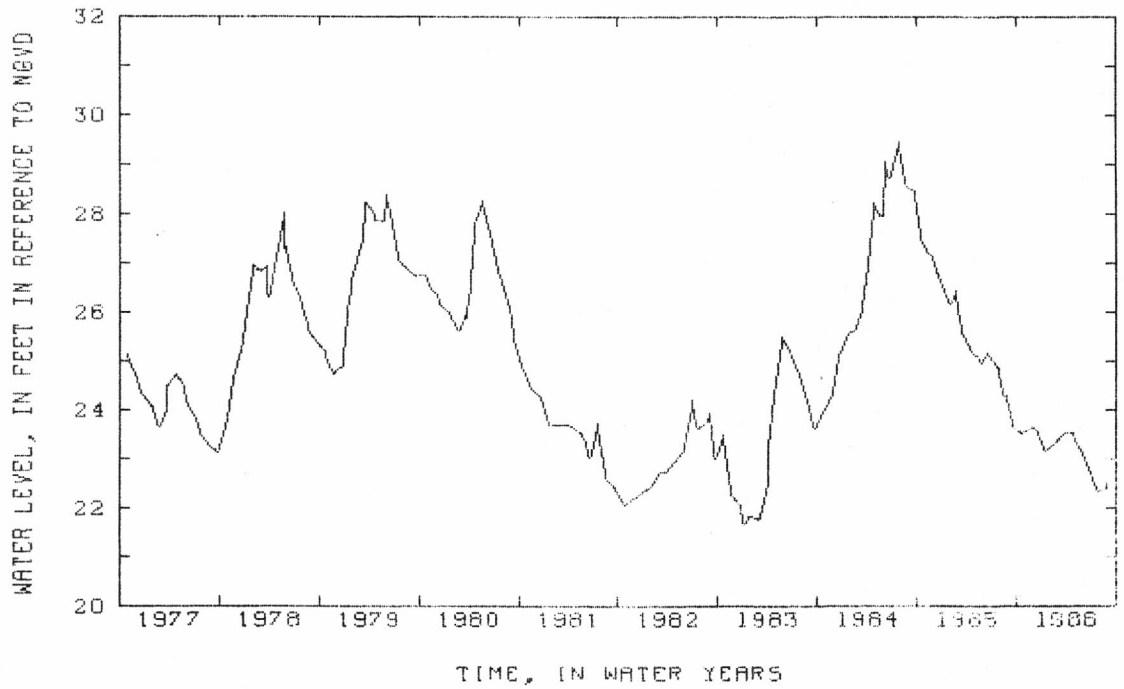
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 11	9.00	MAR 19	7.62	JUN 5	8.33	SEP 19	7.03				

404125073394802. Local number, N 1129.2
LOCATION.--Lat 40°41'25", long 73°39'48", Hydrologic Unit 02030202, at Hawthorne Street and Euclid Avenue, West Hempstead. Owner: Nassau County Department of Public Works.
AQUIFER--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 44 ft, screened 41 to 44 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 51 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.46 ft below land-surface datum.
REMARKS.--Replaced well N 1129.1 in October 1966 at same location, which has a period of record from August 1937 to October 1966 (unpublished). Well also sampled for water quality.
PERIOD OF RECORD.--October 1966 to current year. Unpublished records from October 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.46 ft NGVD, July 23, 1984; lowest measured, 21.67 ft NGVD, Jan. 5, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	23.52	DEC 17	23.56	MAR 18	23.50	APR 22	23.55	JUN 2	23.13	AUG 21	22.36
NOV 18	23.59	JAN 16	23.17	27	23.52	MAY 19	23.28	JUL 24	22.34	22	22.53
29	23.68	FEB 27	23.37								



404840073311902. Local number, N 1212.2
LOCATION.--Lat 40°48'40", long 73°31'19", Hydrologic Unit 02030202, at Jericho Turnpike and Eileen Way, Locust Grove. Owner: Nassau County Department of Public Works.
AQUIFER--Magothy (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 4 in, depth 185 ft, screened 179 to 185 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 227 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 0.54 ft below land-surface datum.
REMARKS.--Replaced well N 1212.1 in July 1942, which has a period of record from May 1941 to October 1941.
PERIOD OF RECORD.--July 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 93.27 ft NGVD, June 22, 1979; lowest measured, 73.00 ft NGVD, Apr. 25, 1967.

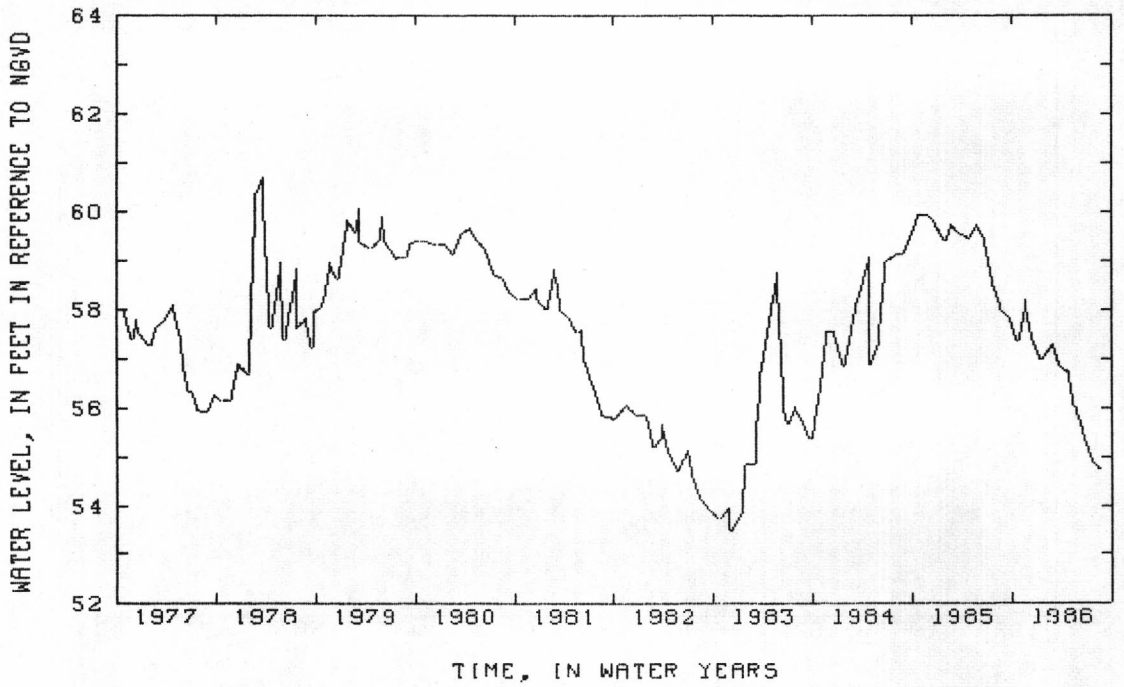
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	88.84	APR 14	87.11	JUN 27	86.37						

405027073272602. Local number, N 1243.5
LOCATION.--Lat 40°50'26", long 73°27'20", Hydrologic Unit 02030201, at Stillwell and Harbor Roads, Cold Spring.
Owner: Nassau County Department of Public Works.
AQUIFER --Magothy (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 28 ft, screened 25 to 28 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 64 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.92 ft below land-surface datum.
REMARKS.---Replaced well N 1243.4 in September 1975 at same location, records from November 1939 to September 1975 (unpublished) and are available in files of Long Islsnd Sub-district office.
PERIOD OF RECORD.--September 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.70 ft NGVD, Mar. 21, 1978; lowest measured, 53.50 ft NGVD, Dec. 2, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	57.38	JAN 16	56.97	APR 22	56.75	MAY 22	55.99	MAY 23	55.97	JUL 24	54.86
NOV 18	58.21	FEB 27	57.31	MAY 19	56.05	22	55.99	JUN 27	55.30	AUG 21	54.73
DEC 17	57.36	MAR 27	56.82								



404704073264201. Local number, N 1246.1
LOCATION.--Lat 40°47'03", long 73°26'42", Hydrologic Unit 02030202, at Round Swamp & Old Country Roads, Plainview.
Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 124 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 185 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.17 ft above land-surface datum.
PERIOD OF RECORD.--May 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.38 ft NGVD, Dec. 18, 1984; lowest measured, 68.29 ft NGVD, Apr. 25, 1967.

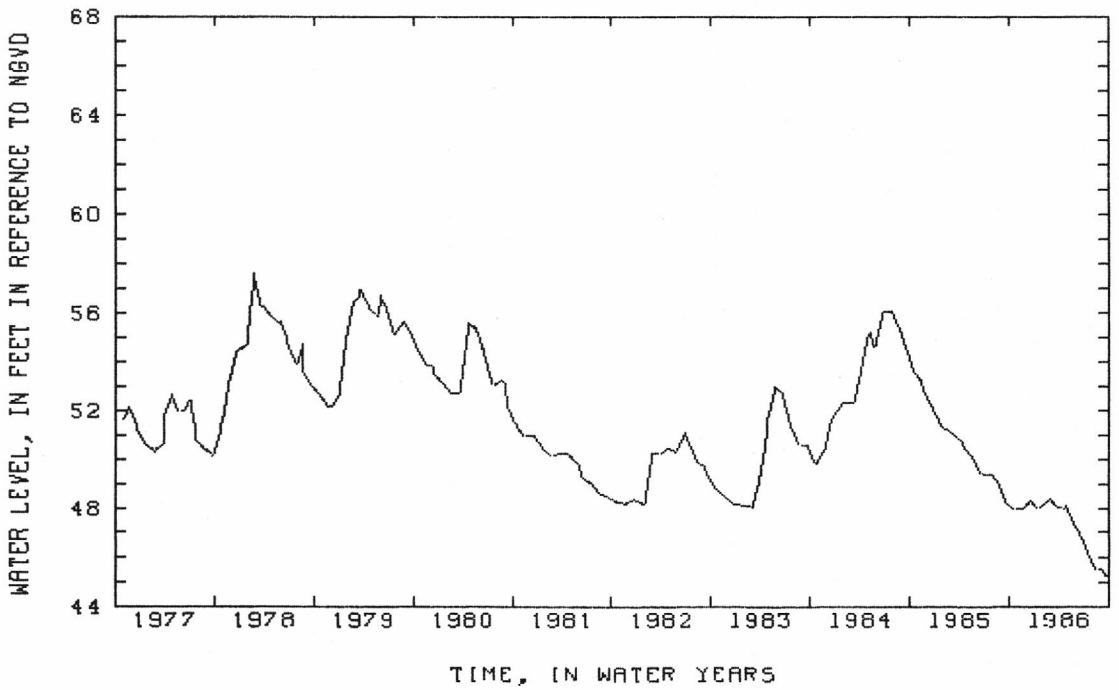
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 11	81.86	MAR 17	79.91	JUN 9	78.05	SEP 5	73.41				

404317073291105. Local number, N 1259.5
LOCATION.--Lat 40°43'16", long 73°29'10", Hydrologic Unit 02030202, at Hicksville Road and Mary Lane, Plainedge.
Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 41 ft, screened 38 to 41 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 78.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.32 ft below land-surface datum.
REMARKS.--Replaced well N 1259.4 in June 1961 at same location, records from January 1909 to June 1961 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--June 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.60 ft NGVD, Feb. 21, 1978; lowest measured, 45.22 ft NGVD, Sept. 23, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	47.96	JAN 16	48.00	APR 18	48.03	MAY 19	47.62	JUL 24	45.94	AUG 29	**45.51**
NOV 18	47.97	FEB 27	48.37	22	48.12	JUN 12	47.02	25	45.88	SEP 23	**45.22**
DEC 17	48.36	MAR 27	48.07	MAY 16	47.69	27	46.58	AUG 21	45.48		

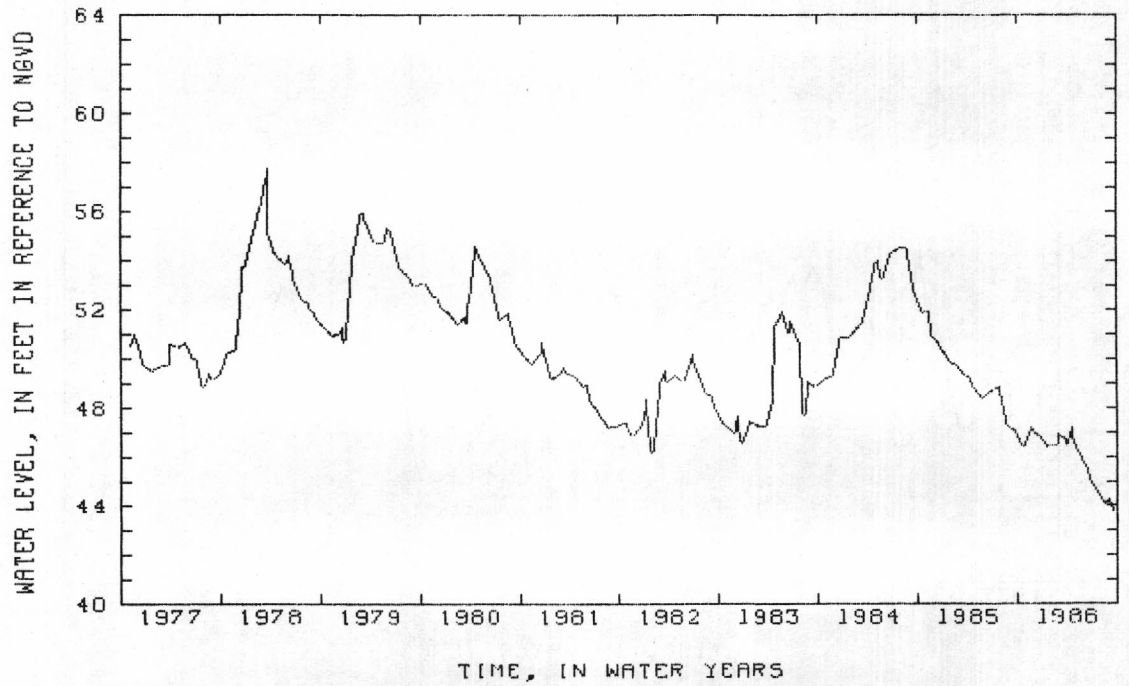


NASSAU COUNTY--Continued

404302073295705. Local number, N 1263.4
LOCATION. --Lat 40°43'02", long 73°29'58", Hydrologic Unit 02030202, at Wantagh Avenue and Miller Place, Levittown.
Owner: Nassau County Department of Public Works.
AQUIFER. --Upper Glacial (water table).
WELL CHARACTERISTICS. --Driven observation well, diameter 1.25 in, depth 35 ft, screened 32 to 35 ft.
INSTRUMENTATION. --Measurement with chalked tape by USGS and County personnel.
DATUM. --Land-surface datum is 67 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.41 ft below land-surface datum.
REMARKS. --Replaced well N 1263.3 in December 1952 at same loccation, unpublished records from June 1936 to December 1952 are available in files of Long Island Sub-district office.
PERIOD OF RECORD. --December 1952 to current year.
EXTREMES FOR PERIOD OF RECORD. --Highest water level measured, 57.74 ft NGVD, Mar. 21, 1978; lowest measured, 43.65 ft NGVD, Sept. 23, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

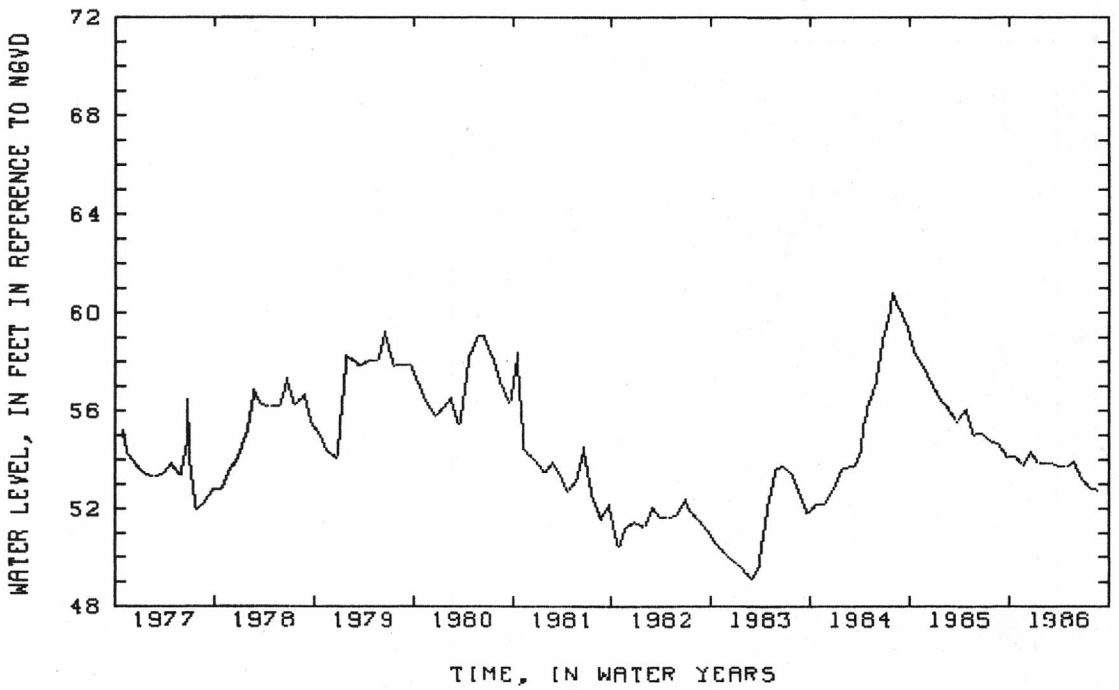
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	46.37	JAN 13	46.48	MAR 24	46.72	MAY 16	46.15	JUN 27	45.00	AUG 21	44.06
NOV 18	47.21	16	46.41	27	46.44	19	46.15	JUL 24	44.46	29	44.29
DEC 10	46.86	FEB 24	46.46	APR 18	47.19	JUN 12	45.52	25	44.37	SEP 23	43.65
17	46.84	27	46.96	22	46.70						



404446073392904. Local number, N 1614.4
LOCATION.--Lat 40°44'46", long 73°39'29", Hydrologic Unit 02030202, at Herricks Road and Sally Place, Mineola.
Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 1.25 in, depth 53 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 100.1 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.26 ft below land-surface datum.
REMARKS.--Replaced well N 1614.3 in April 1966 at same location, unpublished records from December 1933 to September 1975 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--April 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.78 ft NGVD, July 23, 1984; lowest measured, 48.42 ft NGVD, Dec. 21, 1970.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	54.15	DEC 17	54.35	FEB 27	53.89	APR 22	53.69	JUN 27	53.14	AUG 21	52.71
NOV 18	53.83	JAN 16	53.85	MAR 27	53.76	MAY 20	53.94	JUL 24	52.78		

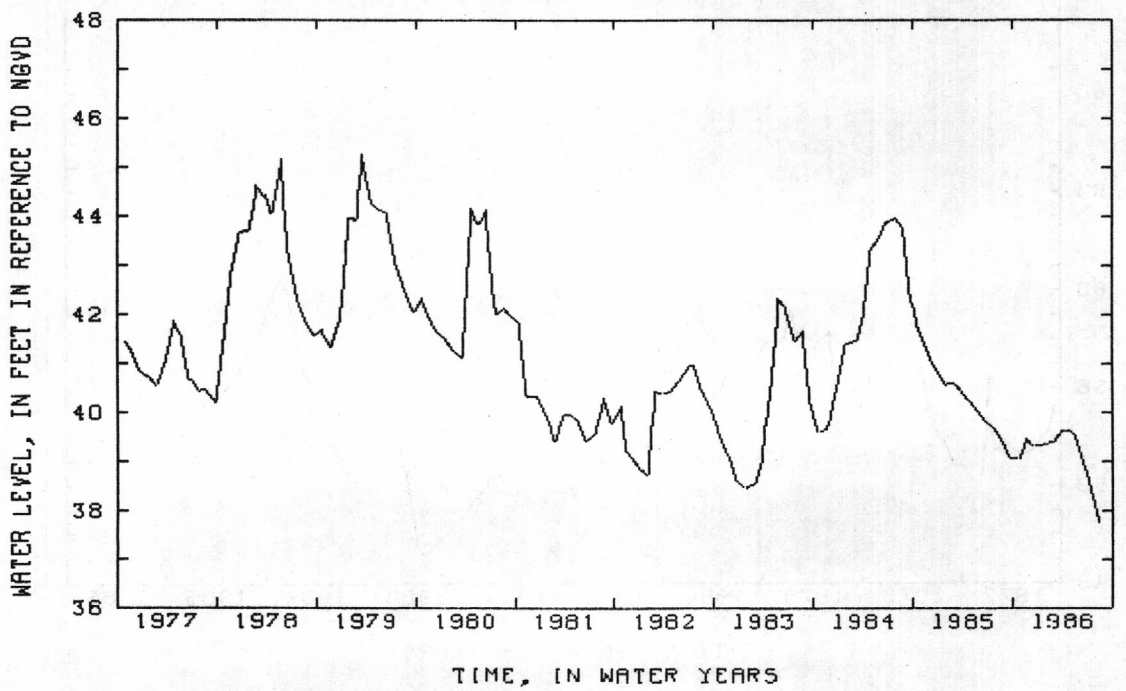


NASSAU COUNTY--Continued

404210073340703. Local number, N 1615.2
LOCATION. --Lat 40°42'09", long 73°34'06", Hydrologic Unit 02030202, at Merrick and Van Buren Avenues, East Meadow.
Owner: Nassau County Department of Public Works.
AQUIFER. --Upper Glacial (water table).
WELL CHARACTERISTICS. --Drilled observation well, diameter 1.25 in, depth 33 ft, screened 30 to 33 ft.
INSTRUMENTATION. --Measurement with chalked tape by USGS personnel.
DATUM. --Land-surface datum is 61.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.13 ft below land-surface datum.
REMARKS. --Replaced well N 1615.1 in August 1966 at same location, which has a period of record from March 1913 to August 1966 (unpublished).
PERIOD OF RECORD. --August 1966 to current year. Unpublished records from August 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD. --Highest water level measured, 45.27 ft NGVD, Mar. 19, 1979; lowest measured, 37.73 ft NGVD, Aug. 21, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

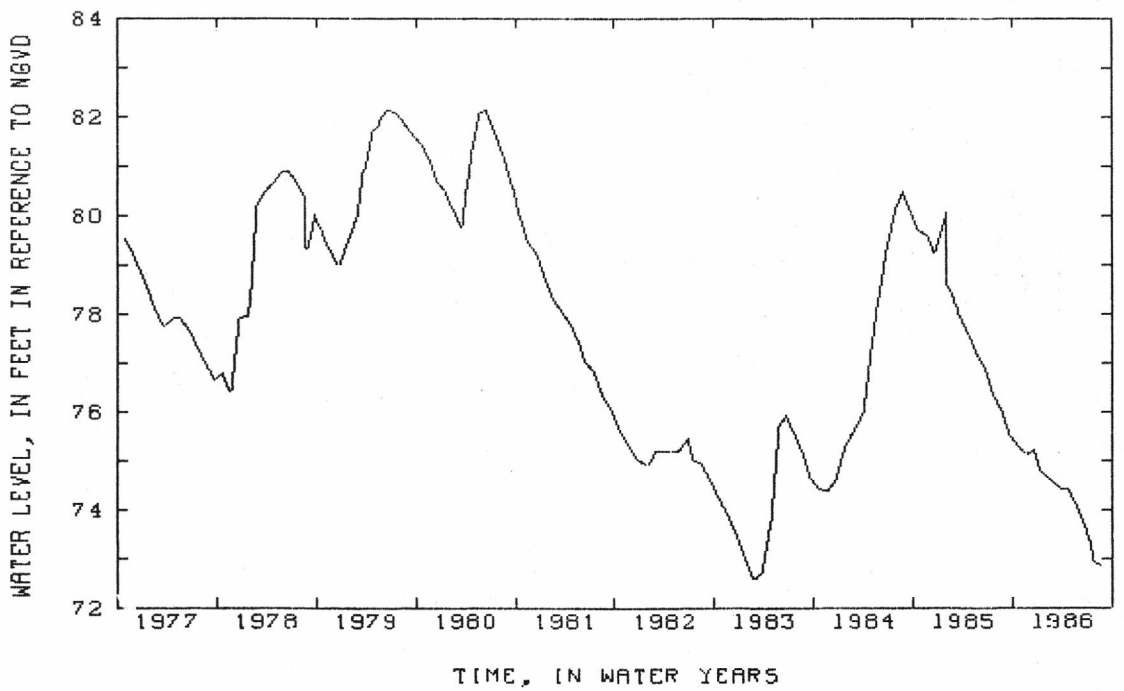
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	39.03	DEC 17	39.31	FEB 27	39.39	APR 22	39.62	JUN 27	38.81	AUG 21	37.73
NOV 18	39.47	JAN 16	39.35	MAR 27	39.64	MAY 19	39.52				



404554073351502. Local number, N 1616.2
LOCATION.--Lat 40°45'54", long 73°35'15", Hydrologic Unit 02030202, at Post Avenue and Argyle Road, Westbury.
Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 2 in, depth 68 ft, screened 65 to 68 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 122.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.42 ft below land-surface datum.
REMARKS.--Replaced well N 1616.1 in October 1965 at same location, it was previously screened in Upper Glacial Aquifer, which has a period of record from March 1913 to October 1965.
PERIOD OF RECORD.--October 1965 to current year. Unpublished record from October 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.14 ft NGVD, June 20, 1980; lowest measured, 68.28 ft NGVD, Feb. 28, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	75.30	DEC 17	75.22	FEB 27	74.57	APR 22	74.39	JUN 27	73.61	AUG 21	72.86
NOV 18	75.12	JAN 16	74.78	MAR 27	74.43	MAY 20	74.09	JUL 24	72.95		



405101073343401. Local number, N 2528.2
LOCATION.--Lat 40°50'01", long 73°34'32", Hydrologic Unit 02030201, at Chicken Valley and Wolver Hollow Roads, Upper Brookville. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in to 4 in, depth 328 ft, slotted 278 to 282 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 93.1 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 0.76 ft above land-surface datum.
PERIOD OF RECORD.--December 1947 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.92 ft NGVD, July 25, 1957; lowest measured, 59.12 ft NGVD, Feb. 24, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

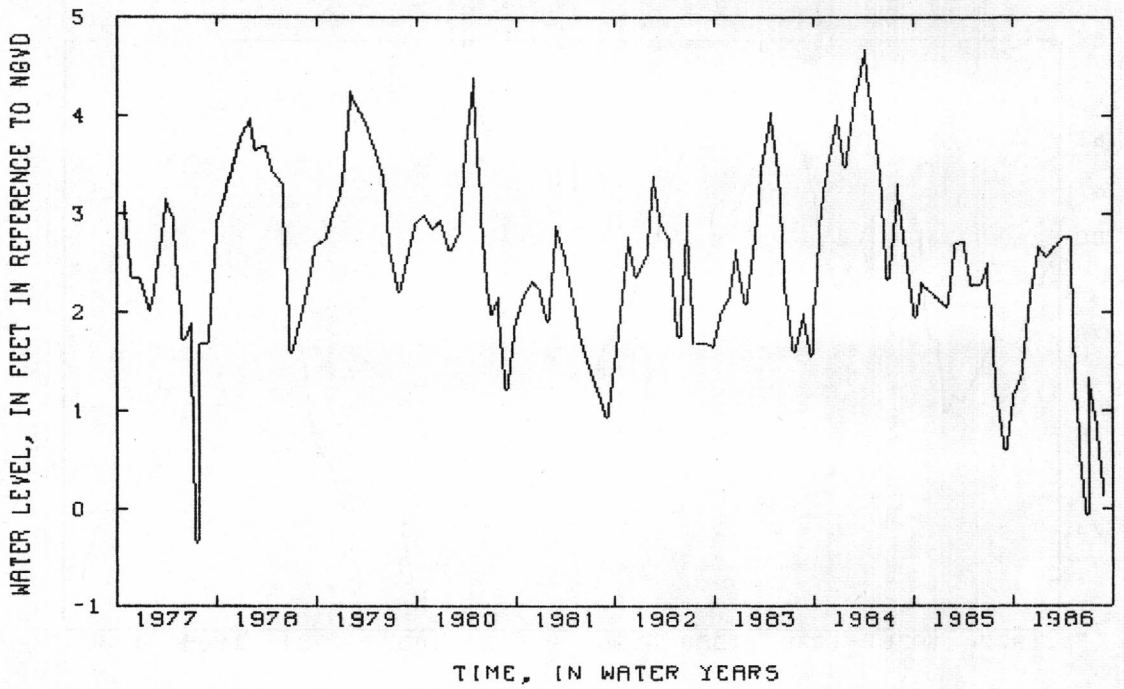
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 13	69.27	MAR 10	69.21	JUN 5	68.06	SEP 3	67.18				

NASSAU COUNTY--Continued

403805073395301. Local number, N 2790.2
LOCATION.--Lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 571 ft, screened 538 to 560 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Base of recorder shelf, 3.82 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well. Well also sampled for water quality.
PERIOD OF RECORD.--December 1949 to current year. Unpublished records from December 1949 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.50 ft NGVD, Apr. 6, 1958; lowest measured, -0.36 ft NGVD, July 20, 1977.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	1.35	DEC 31	2.67	MAR 31	2.77	MAY 31	0.64	JUL 7	1.33	AUG 31	0.11
NOV 30	2.24	JAN 31	2.57	APR 30	2.77	JUN 30	-0.06	31	0.89		



404619073270601. Local number, N 3355.2
LOCATION.--Lat 40°46'18", long 73°27'04", Hydrologic Unit 02030202, at Round Swamp Road, 0.7 mi south of Old Country Road, Plainview. Owner: U.S. Geological Survey.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in - 4 in, depth 1,093 ft, screened 1,070 to 1,090 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 183.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.28 ft below land-surface datum.
PERIOD OF RECORD.--August 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.17 ft NGVD, Apr. 10, 1957; lowest measured, 23.18 ft above NGVD, Apr. 11, 1972.

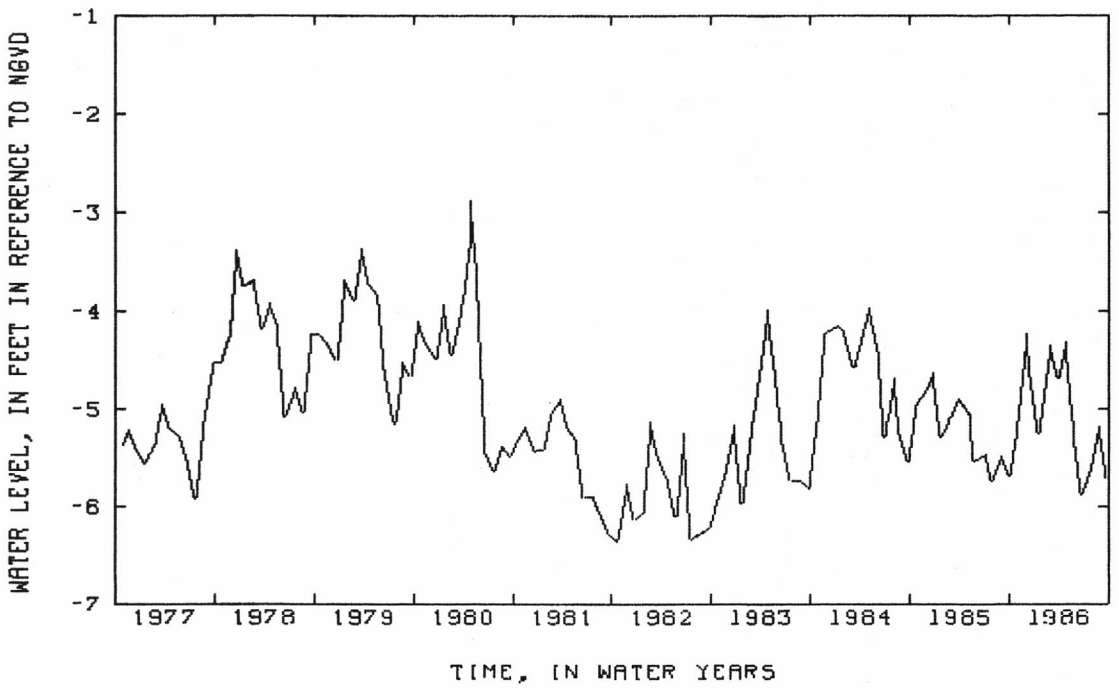
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	30.69	JAN 30	31.20	APR 2	31.23	JUN 9	29.69	JUL 1	28.76	AUG 1	28.21
DEC 10	31.25	MAR 6	31.72	MAY 2	31.21						

403751073440201. Local number, N 3861.1
LOCATION.--Lat 40°37'51", long 73°44'01", Hydrologic Unit 02030202, at Water Pollution Control Plant, Arlington Place, Cedarhurst. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 530 ft, screened 519 to 530 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 7.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.37 ft above land-surface datum.
PERIOD OF RECORD.--April 1952 to current year. Unpublished records from April 1952 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -2.88 ft NGVD, May 1, 1980; lowest measured, -7.57 ft NGVD, Aug. 7, 1955.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	-5.31	DEC 16	-4.68	FEB 25	-4.35	APR 25	-4.32	JUN 24	-5.86	AUG 25	-5.19
DEC 2	-4.24	JAN 17	-5.25	MAR 28	-4.68	MAY 28	-5.40	JUL 22	-5.65	SEP 22	-5.72

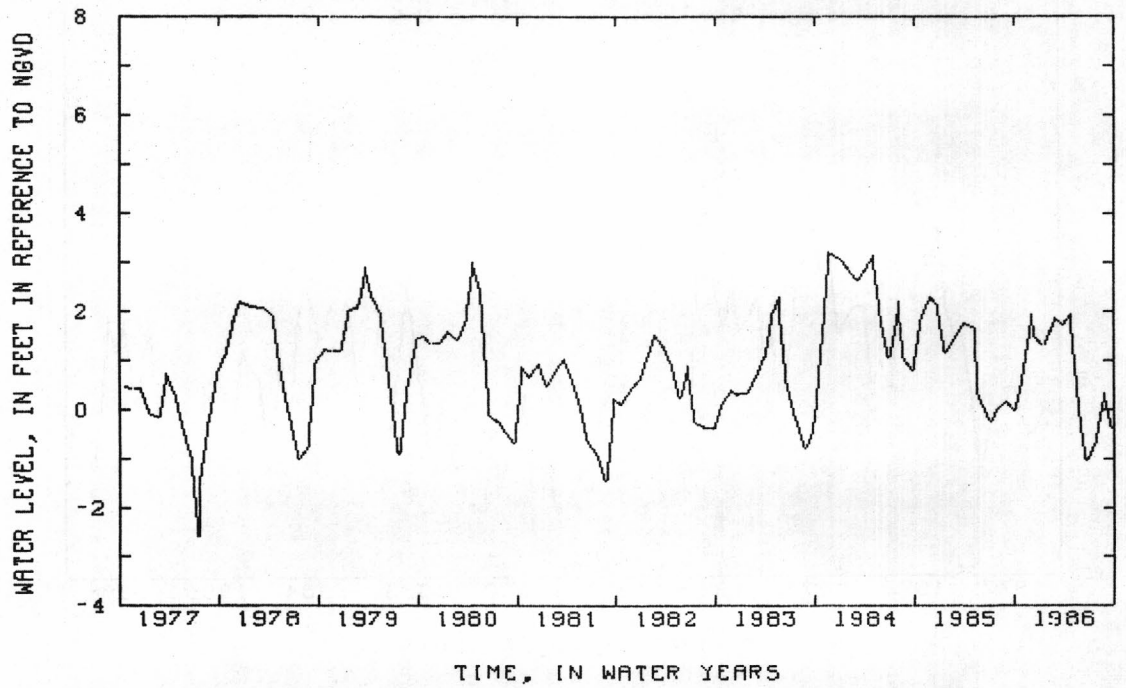


NASSAU COUNTY--Continued

403911073432701. Local number, N 3867.2
LOCATION.--lat 40°39'12", long 73°43'20", Hydrologic Unit 02030202, at Brook Road Park, at the end of Brook Road, Green Acres. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 517 ft, screened 505 to 517 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 7.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.54 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well.
PERIOD OF RECORD.--December 1952 to current year. Unpublished records from December 1952 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.99 ft NGVD, Jan. 28, 1953; lowest measured, -2.61 ft NGVD, July 19, 1977.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

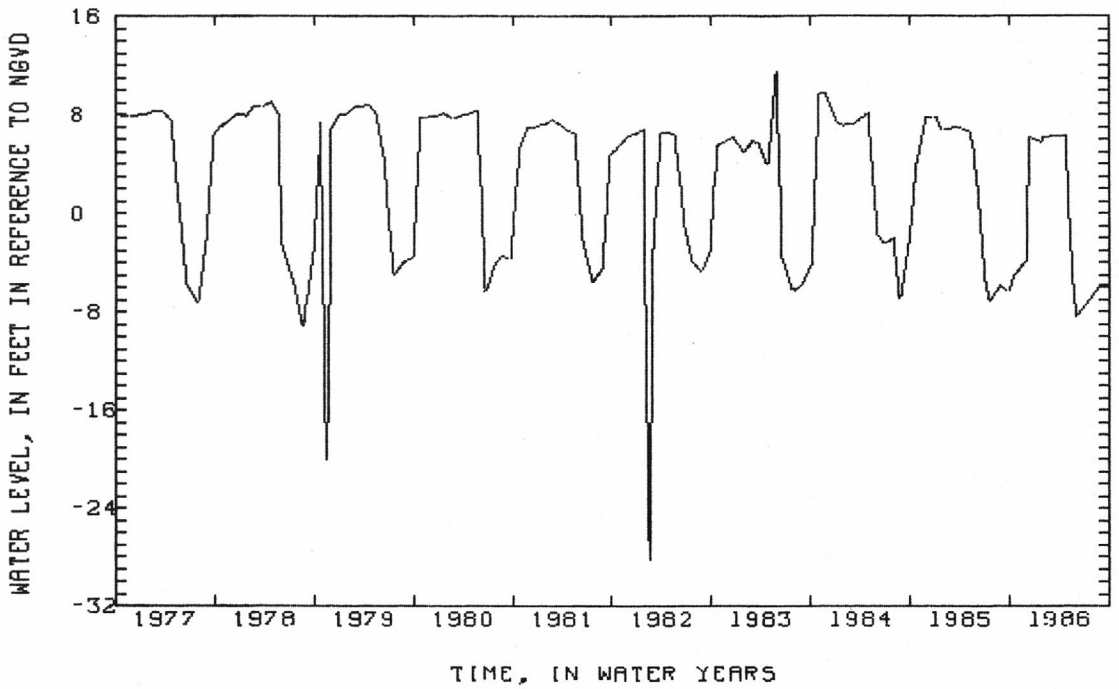
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	0.46	DEC 16	1.48	FEB 25	1.87	APR 25	1.95	JUN 24	-1.04	AUG 25	0.34
DEC 2	1.92	JAN 17	1.31	MAR 28	1.75	MAY 28	-0.18	JUL 22	-0.70	SEP 22	-0.36



405125073420702. Local number, N 6282.2
LOCATION.--Lat 40°51'25", long 73°42'07", Hydrologic Unit 02030201, at Helen Keller National Center for Deaf-Blind Youths and Adults, Middle Neck Road, Sands Point. Owner: U.S. Geological Survey.
AQUIFER.--Port Washington (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 396 ft, screened 378 to 388 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 101 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 1.22 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well.
PERIOD OF RECORD.--August 1957 to current year. Unpublished records from August 1957 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured , 11.49 ft NGVD, May 31, & June 1, 1983; lowest measured -28.36 ft NGVD, Feb. 17, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	-5.09	DEC 13	6.07	JAN 27	6.15	APR 8	6.21	MAY 27	-8.46	AUG 22	-5.88
NOV 29	-3.95	JAN 23	5.68	FEB 24	6.20	24	6.32	JUL 21	-7.06	SEP 30	-5.89



405212073354002. Local number, N 6668.1
LOCATION.--Lat 40°52'12", long 73°35'40", Hydrologic Unit 02030201, at Piping Rock Road, Locust Grove. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 1.25 in, depth 43 ft, screened 41 to 43 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 103 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.35 ft above land-surface datum.
PERIOD OF RECORD.--April 1968 to current year. Unpublished records from April 1968 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.80 ft NGVD, Feb. 2, 1979; lowest measured, 63.30 ft NGVD, Apr. 22, 1968.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 3	65.75										

NASSAU COUNTY--Continued

403517073430702. Local number, N 6702.1
LOCATION.--Lat 40°35'17", long 73°43'06", Hydrologic Unit 02030202, at Richard and Park Streets, Atlantic Beach. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 677 ft, screened 666 to 677 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 11.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 1.04 ft above land-surface datum.
PERIOD OF RECORD.--August 1959 to current year. Unpublished records from August 1959 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -2.50 ft NGVD, Apr. 13, 1961; lowest measured, -6.58 ft NGVD, Nov. 30, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	-5.99	DEC 16	-5.06	FEB 25	-4.23	APR 25	-4.53	JUN 24	-5.68	AUG 25	-5.77
DEC 2	-4.44	JAN 17	-5.77	MAR 28	-5.07	MAY 28	-6.23	JUL 22	-5.62	SEP 22	-5.88

403713073415902. Local number, N 6707.1
LOCATION.--Lat 40°37'12", long 73°41'59", Hydrologic Unit 02030202, at end of Woodmere Boulevard, at the town dock, Woodsburgh. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 503 ft, screened 493 to 503 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring Point: Top of coupling, 2.08 ft above land-surface datum.
PERIOD OF RECORD.--October 1959 to current year. Unpublished records from October 1959 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.52 ft NGVD, Mar. 13, 1961; lowest measured, -1.33 ft NGVD, July 19, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	1.22	DEC 16	1.44	FEB 25	2.36	APR 25	2.14	JUN 24	-0.32	AUG 25	0.39
DEC 2	2.18	JAN 17	1.04	MAR 28	1.73	MAY 28	-0.15	JUL 22	0.09	SEP 22	0.04

403533073353202. Local number, N 6850.2
LOCATION.--Lat 40°35'33", long 73°35'32", Hydrologic Unit 02030202, at Lido Boulevard, 0.3 mi west of Loop Parkway, Lido Beach. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 913 ft, screened 898 to 909 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 6.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 2.58 ft above land-surface datum.
PERIOD OF RECORD.--June 1960 to current year. Unpublished records from June 1960 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.00 ft NGVD, Apr. 13, 1961; lowest measured, 2.69 ft NGVD, Oct. 27, 1980.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	3.84	DEC 16	4.63	FEB 25	5.15	APR 25	4.87	JUN 24	4.08	AUG 25	3.76
DEC 2	5.20	JAN 17	4.06	MAR 28	4.74	MAY 28	3.70	JUL 22	4.29	SEP 22	3.95

405432073345001. Local number, N 7152.1
LOCATION.--Lat 40°54'33", Long 73°34'46", Hydrologic Unit 02030201, at Oak Neck Beach, Bayville. Owner: U.S. Geological Survey.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 370 ft, screened 360 to 370 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 14.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 3.63 ft above land-surface datum.
PERIOD OF RECORD.--September 1961 to current year. Unpublished records from September 1961 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.74 ft NGVD, Feb. 5, 1962; lowest measured, -5.50 ft NGVD, Jun. 27, 1983.

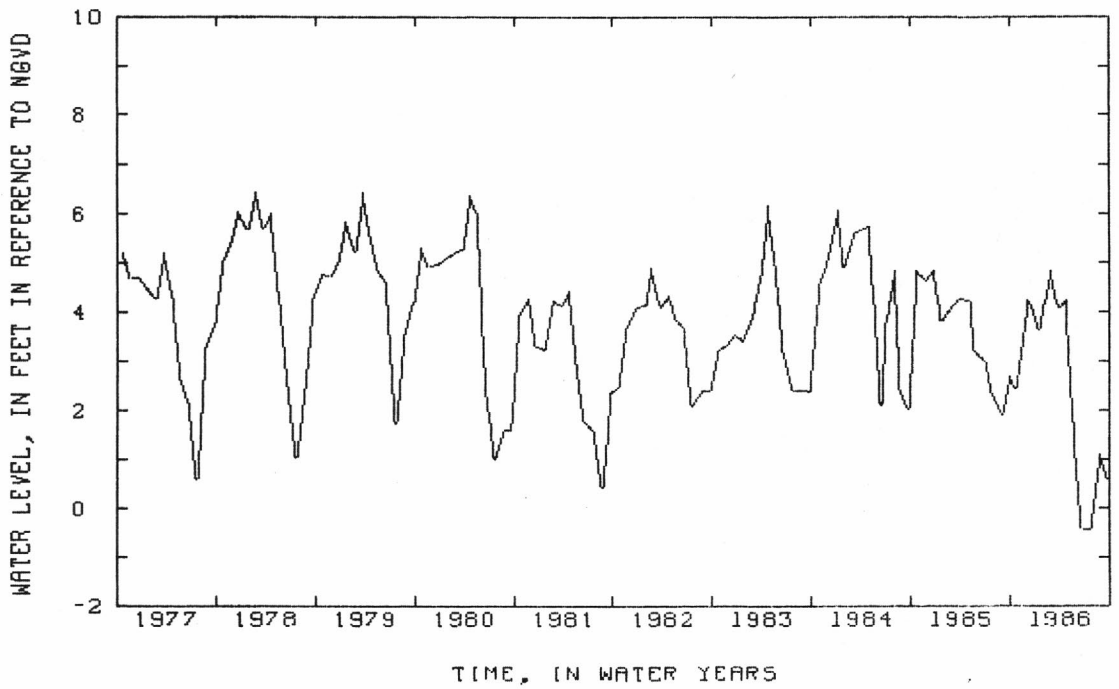
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	13.24	JAN 23	12.54	FEB 24	14.66	APR 24	14.23	JUN 19	8.29	AUG 22	11.11
DEC 2	15.02	27	12.30	APR 8	14.87	MAY 27	9.98	JUL 21	7.79	SEP 30	12.43
13	13.64										

403856073392603. Local number, N7161.2
LOCATION.--Lat 40°38'56", long 73°39'26", Hydrologic Unit 02030202, at Village Dump, at end of Riverside Road, Rockville Centre. Owner: Village of Rockville Centre.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 666 ft, screened 661 to 665 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 2.78 ft above land-surface datum.
PERIOD OF RECORD.--October 1961 to current year. Unpublished records from October 1961 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.03 ft NGVD, Mar. 13, 1962; lowest measured, -2.81 ft NGVD, July 13, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	2.42	DEC 16	4.14	FEB 25	4.82	APR 25	4.25	JUN 24	-0.42	AUG 25	1.10
DEC 2	4.25	JAN 17	3.63	MAR 28	4.08	MAY 28	1.01	JUL 22	-0.42	SEP 22	0.59

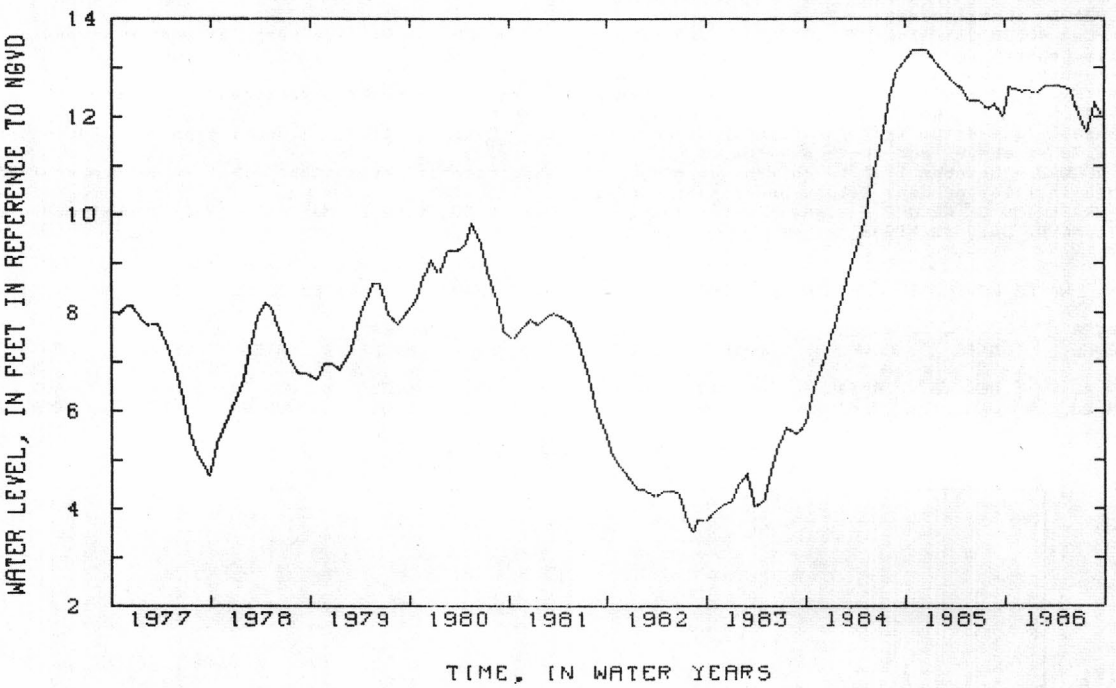


NASSAU COUNTY--Continued

404237073433701. Local number, N 7493.1
LOCATION.--Lat 40°42'36", long 73°43'35", Hydrologic Unit 02030202, at Hempstead Turnpike and Cross Island Parkway, Elmont. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 353 ft, screened 349 to 353 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 75.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.59 ft above land-surface datum.
PERIOD OF RECORD.--April 1964 to current year. Unpublished records from April 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.33 ft NGVD, Apr. 30, 1964; lowest measured, 3.52 ft NGVD, Aug. 8, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

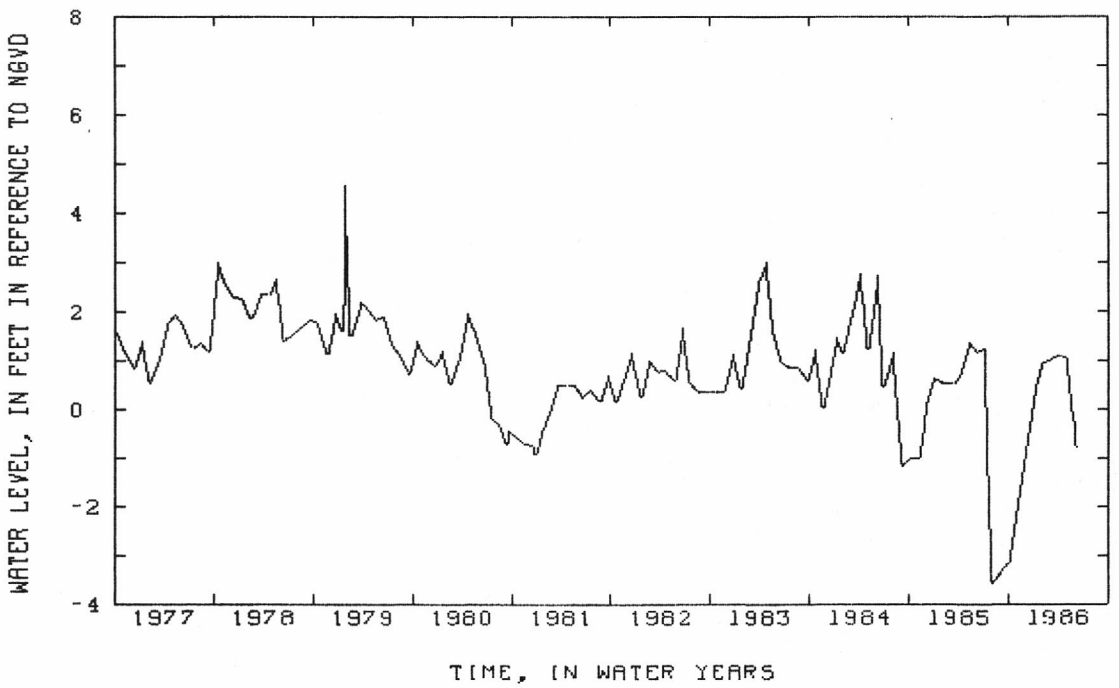
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	12.59	DEC 16	12.53	FEB 24	12.61	MAY 27	12.54	JUL 24	11.75	SEP 22	12.02
DEC 1	12.50	JAN 23	12.47	APR 2	12.64	JUN 19	12.17	AUG 25	12.29		



403805073395304. Local number, N 7676.1
LOCATION.--Lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park.
Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 4 in, depth 10 ft, screened 7 to 10 ft .
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 5.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.83 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well.
PERIOD OF RECORD.--February 1966 to current year. Unpublished records from February 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.56 ft NGVD, Jan. 25, 1979; lowest measured, DRY many days in July due to dewatering.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	-3.17	JAN 7	0.51	FEB 3	0.94	APR 1	1.10	MAY 1	1.05	JUN 4	-0.76



403805073395305. Local number, N 7677.1
LOCATION.--lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, Bay Park.
Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 89 ft, screened 84 to 89 ft.
INSTRUMENTATION.--Measured with chalked tape by USGS personnel.
DATUM.--Land-surfac datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring Point: Top of casing, 2.66 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well. Well also sampled for water quality.
PERIOD OF RECORD.--March 1966 to current year. Unpublished records from March 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.94 ft NGVD, Jan. 25, 1979; lowest measured, -0.88 ft NGVD, Dec. 22, 1980.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

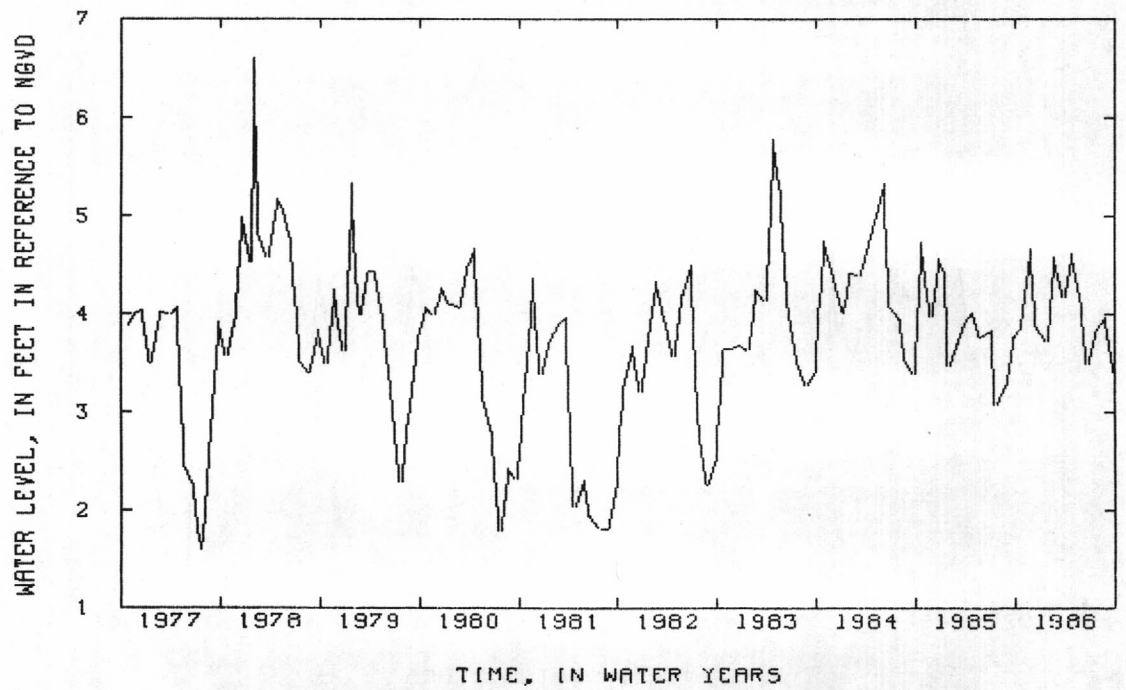
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 10	0.81										

NASSAU COUNTY--Continued

404947073450301. Local number, N 8046.1
LOCATION.--Lat 40°49'47", long 73°45'03", Hydrologic Unit 02030201, at Pond and Kings Point Roads, Kings Point.
Owner: Nassau County Department of Public Works.
AQUIFER.--Port Washington (confined). Previously reported as Jameco Aquifer.
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 189 ft, screened 184 to 189 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 9.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.36 ft above land-surface datum. Well also sampled for water quality.
PERIOD OF RECORD.--May 1966 to current year. Unpublished records from May 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft NGVD, Feb. 6, 1978; lowest measured, -1.20 ft NGVD, July 19, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	3.83	DEC 16	3.87	FEB 24	4.58	APR 24	4.61	JUN 19	3.48	AUG 22	3.97
NOV 29	4.67	JAN 23	3.72	MAR 27	4.16	MAY 27	4.11	JUL 21	3.82	SEP 30	3.40

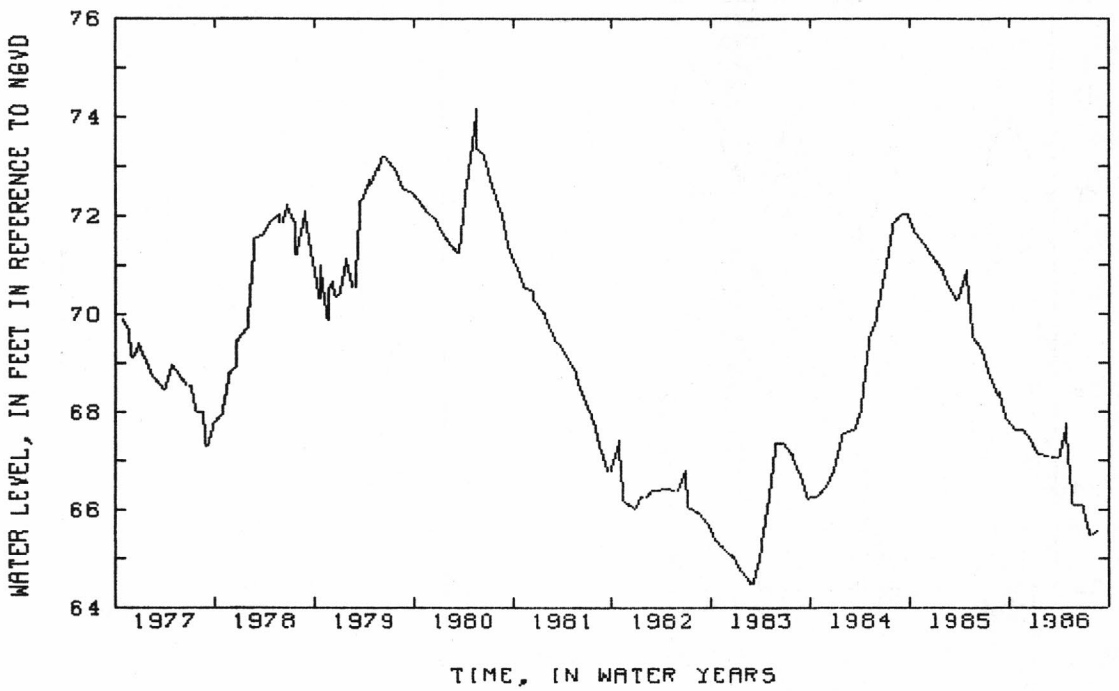


NASSAU COUNTY--Continued

404535073370002. Local number, N 8269.2
Location.--Lat 40°45'35", long 73°37'00, Hydrologic Unit 02030202, at Hillside Avenue and Bacon Road, Old Westbury. Owner: Nassau County Department of Public Works.
AQUIFER--Magothy (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 4 in, depth 86 ft, screened 81 to 86 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land surface datum is 111.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.15 ft below land-surface datum.
REMARKS.--Prior to April 1967, well was screened in Upper Glacial Aquifer. Well N 1258.1 was replaced by well N 8269.1 in April 1967, which was replaced by well N 8269.2 in June 1976.
PERIOD OF RECORD.--June 1976 to current year. Unpublished records from June 1936 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.18 ft NGVD, May 21, 1980; lowest measured, 64.46 ft NGVD Feb. 25, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	67.62	DEC 17	67.42	FEB 27	67.08	APR 22	67.76	JUN 27	66.06	AUG 21	65.55
NOV 18	67.64	JAN 16	67.13	MAR 27	67.06	MAY 20	66.09	JUL 24	65.45		

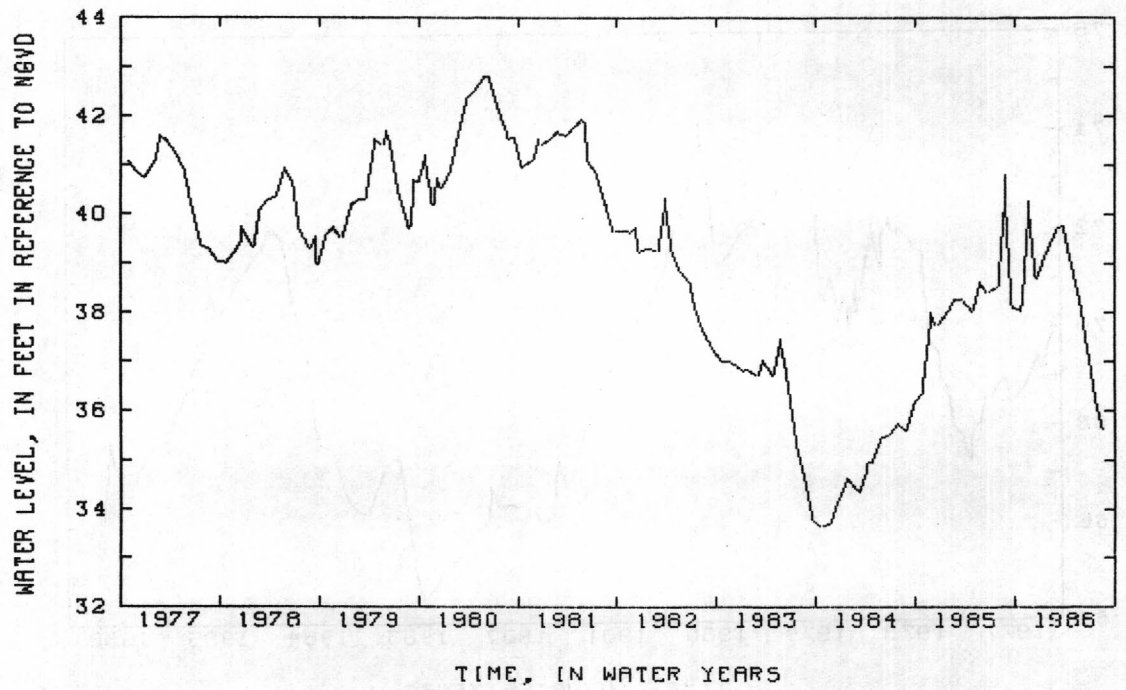


NASSAU COUNTY--Continued

404742073410301. Local number, N 8309.1
LOCATION.--Lat 40°47'42", long 73°41'03", Hydrologic Unit 02030201, at Northern Boulevard and Manhasset Woods Road, Munsey Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 199 ft, screened 194 to 199 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 143.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.15 ft below land-surface datum.
REMARKS.--Replaced well N 1121.2 in March 1967 at same location, unpublished records from March 1940 to March 1967 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.81 ft NGVD, June 20, 1980; lowest measured, 33.53 ft NGVD, Sept. 23, 1968.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	38.03	DEC 17	38.72	FEB 27	39.71	APR 22	39.04	JUN 27	37.12	AUG 21	35.64
NOV 18	40.26	JAN 16	39.18	MAR 27	39.77	MAY 20	38.32	JUL 24	36.15		

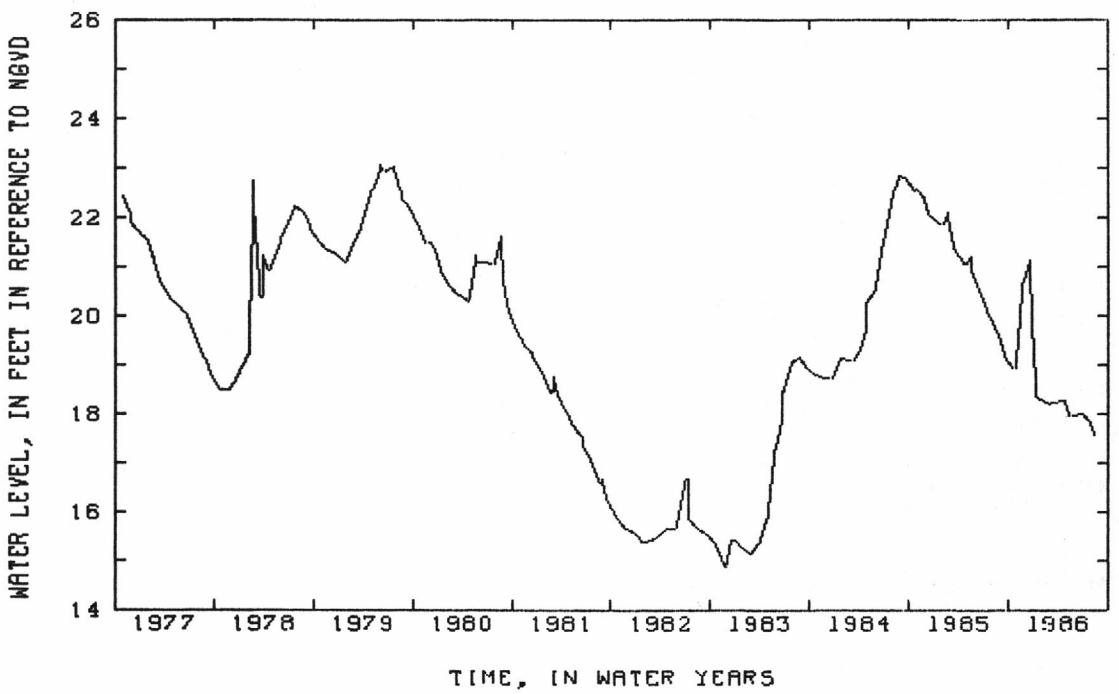


NASSAU COUNTY--Continued

404757073440401. Local number, N 9099.1
LOCATION.--Lat 40°47'57", long 73°44'04", Hydrologic Unit 02030201, at Middle Neck Road and Preston Road, Great Neck. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 71 ft, screened 66 to 71 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 60 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.37 ft below land-surface datum.
REMARKS.--Replaced well N 1479.1 in February 1976, which has a period of record from September 1944 to February 1976 unpublished and are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--February 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.45 ft NGVD, June 7, 1976; lowest measured, 14.90 ft above NGVD, Nov. 26, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	18.91	DEC 17	21.12	FEB 27	18.19	APR 22	18.27	JUN 27	17.99	AUG 21	17.53
NOV 18	20.68	JAN 16	18.33	MAR 27	18.24	MAY 19	17.95	JUL 24	17.84		



404112073421003. Local number, N 9309.1
LOCATION.--Lat 40°41'12", long 73°42'10", Hydrologic Unit 02030202, at Dutch Broadway and Fletcher Avenue, Elmont. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 59 ft, screened 54 to 59 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 42.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.64 ft below land-surface datum.
REMARKS.--Replaced well N 1109.2 in October 1977 at same location, records from September 1936 to October 1977 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.96 ft NGVD, July 23, 1984; lowest measured, 8.10 ft NGVD, Jan. 5, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

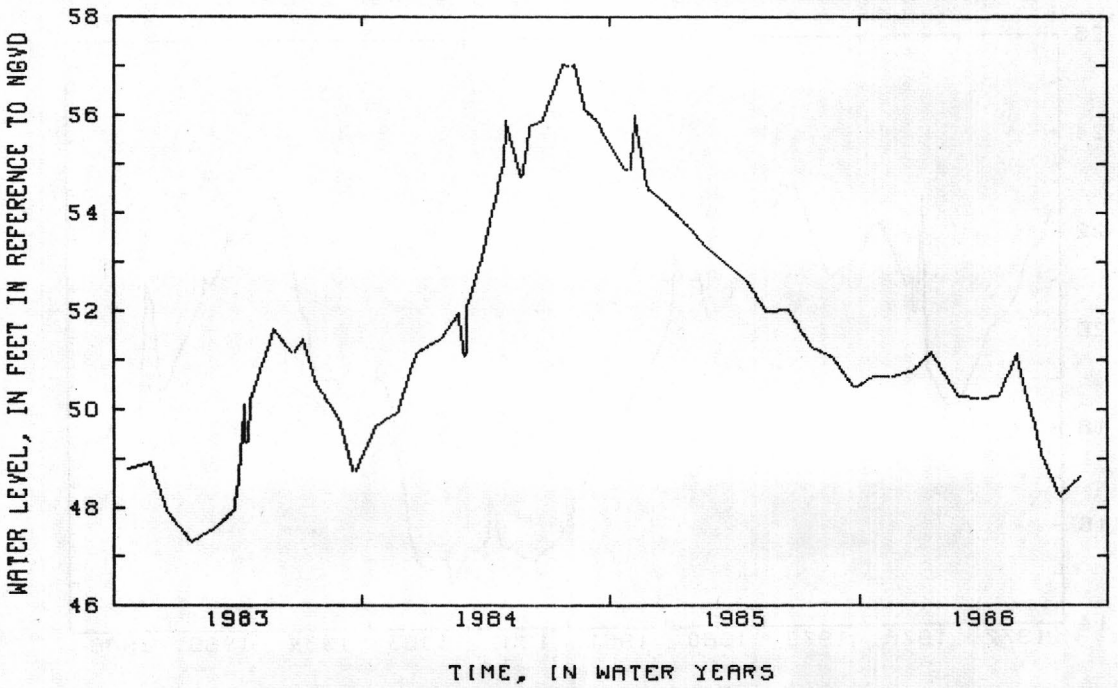
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	11.59	NOV 18	11.57								

NASSAU COUNTY--Continued

404338073371502. Local number, N 10035.1
LOCATION.--Lat 40°43'38", long 73°37'15", Hydrologic Unit 02030202, at Clinton Road and Commercial Avenue, Garden City. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 56 ft, screened 48 to 53 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 77.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling 0.38 ft below land-surface datum.
REMARKS.--Replaced well N 1255.2 in October 1982, records fron May 1913 to October 1982 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--October 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.04 ft NGVD, Aug. 8, 1984; lowest measured, 47.29 ft NGVD, Jan. 24, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	50.66	DEC 17	50.77	FEB 27	50.27	APR 22	50.28	JUN 27	49.04	AUG 21	48.63
NOV 18	50.62	JAN 16	51.18	MAR 27	50.21	MAY 20	51.13	JUL 24	48.25		



QUEENS COUNTY

404451073475003. Local number, Q 283.1
LOCATION.--Lat 40°44'51", long 73°47'50", Hydrologic Unit 02030201, at Underhill Avenue and 171st Street, Flushing. Owner: City of New York, Department of Water Supply, Gas and Electricity.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled unused well, diameter 26 in, depth 409 ft, screened 309 to 352,367 to 409 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 27.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel plate, 0.37 ft above land-surface datum.
PERIOD OF RECORD.--June 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.14 ft NGVD, JAN. 4, 1985; lowest measured, -27.40 ft NGVD, Sept. 14, 1976.

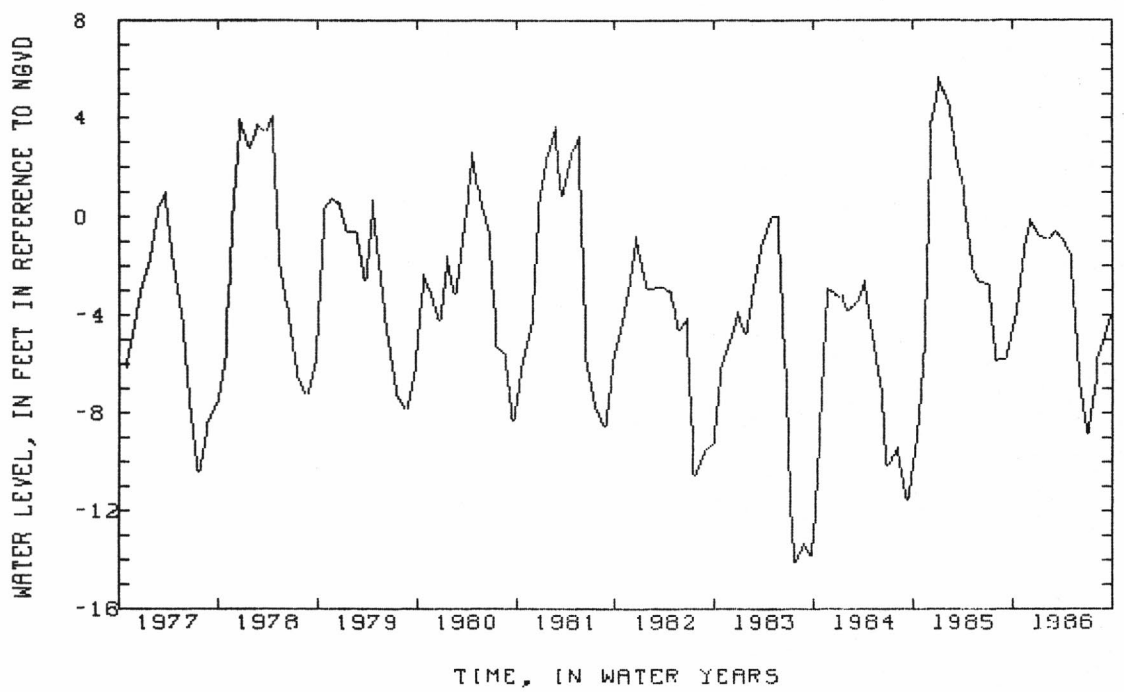
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	-8.31	DEC 4	0.03	APR 2	0.91	JUN 5	-1.94				

404418073434101. Local number, Q 577.1
LOCATION.--Lat 40°44'18", long 73°43'41", Hydrologic Unit 02030201, at Creedmoor State Hospital, near the intersection of Hillside Avenue and Cross Island Parkway, Bellrose. Owner: State of New York.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 12 in, depth 640 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 113.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.05 ft above land-surface datum.
REMARKS.--Water level affected by pumping of nearby well.
PERIOD OF RECORD.--February 1946 to current year. Unpublished records from February 1946 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.65 ft NGVD, Mar. 13, 1959; lowest measured, -19.74 ft NGVD, Jul. 27, 1954.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	-4.05	JAN 10	-0.83	APR 1	-0.93	JUN 5	-7.03	JUL 1	-8.85	AUG 1	-5.73
NOV 14	-1.10	FEB 4	-0.96	MAY 2	-1.52	30	-8.48	29	-6.85	SEP 22	-4.02
DEC 4	-0.16	MAR 6	-0.60								

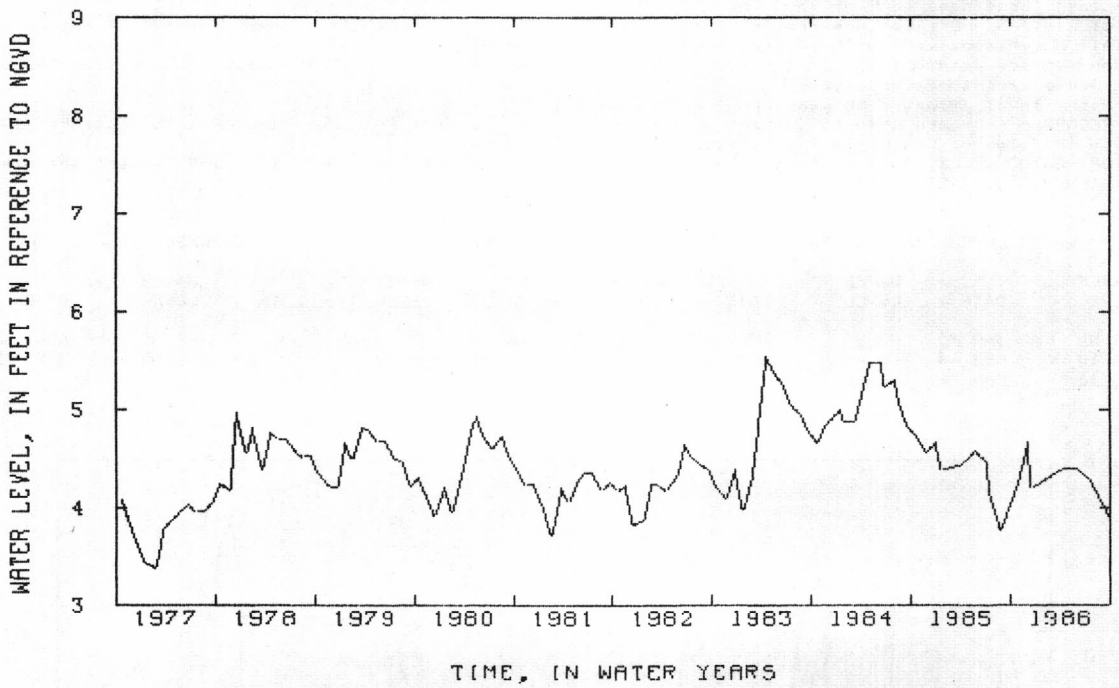


QUEENS COUNTY--Continued

404656073503701. Local number, Q 1373.1
LOCATION.--Lat 40°46'56", long 73°50'37", Hydrologic Unit 02030201, at 127th Street & 20th Avenue, College Point. Owner: Modulaire Components Corporation.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 262 ft, screened 194 to 206 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 50.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 1.26 ft below land-surface datum.
PERIOD OF RECORD.--January 1946 to current year. Unpublished records for 1946-48, 1950, 1952-53, 1962, 1968-73, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.12 ft NGVD, Jan. 10, 1973; lowest measured, -2.80 ft NGVD, Feb. 7, 1962.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	4.22	DEC 16	4.20	APR 8	4.40	MAY 27	4.40	JUL 21	4.28	SEP 30	3.90
DEC 1	4.66										



403957073495001. Local number, Q 2324.1
LOCATION.--Lat 40°39'57", long 73°49'50", Hydrologic Unit 02030202, at North Conduit Avenue and 114th Street, South Ozone Park. Owner: New York Racing Association, Inc.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 2.5 in, depth 91 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 22.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.04 ft above land-surface datum.
PERIOD OF RECORD.--March 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.14 ft NGVD, June 26, 1984; lowest measured, -3.40 ft NGVD, May 25, 1959.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

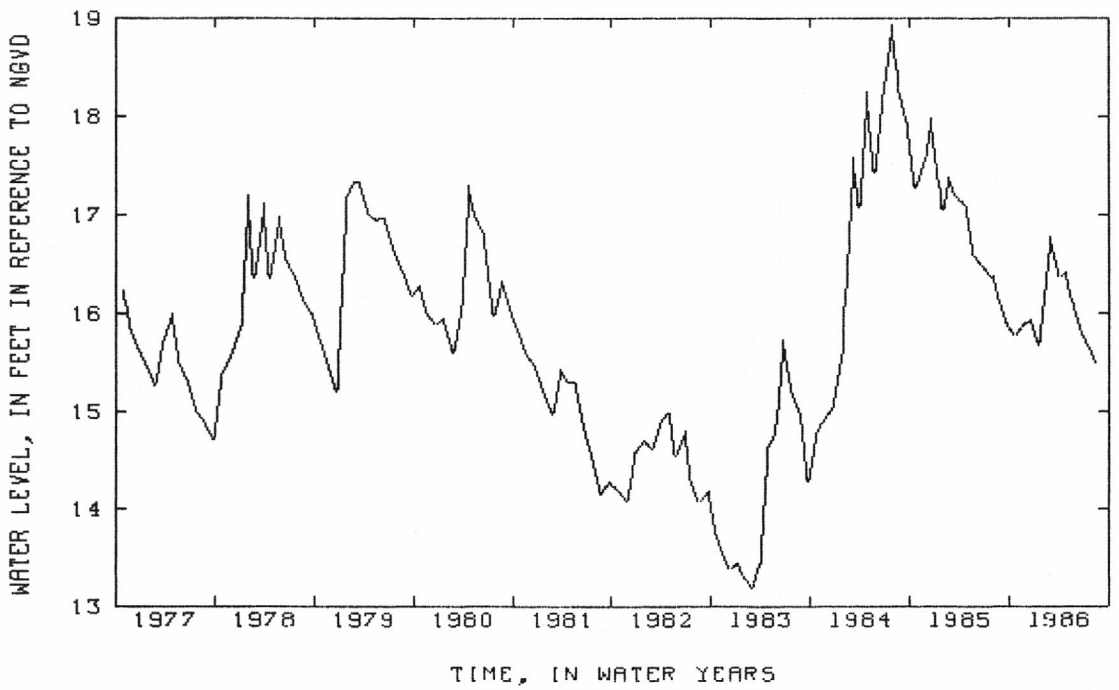
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	3.09	OCT 11	3.09	DEC 4	3.38	APR 3	3.30	JUN 5	3.60	SEP 2	3.47

QUEENS COUNTY--Continued

404451073475002. Local number, Q 2346.1
LOCATION.--Lat 40°44'51", long 73°47'50", Hydrologic Unit 02030201, at Underhill Avenue and Fresh Meadow Lane, Flushing. Owner: New York City.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 17.0 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 29.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.98 ft above land-surface datum.
PERIOD OF RECORD.--August 1960 to current year. Unpublished records from August 1960 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.99 ft NGVD, Apr. 26, 1961; lowest measured, 13.18 ft NGVD, Feb. 25, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.77	DEC 17	15.93	FEB 28	16.78	APR 22	16.41	JUN 30	15.77	AUG 21	15.49
NOV 18	15.88	JAN 16	15.70	APR 2	16.36	MAY 19	16.15	JUL 24	15.62		

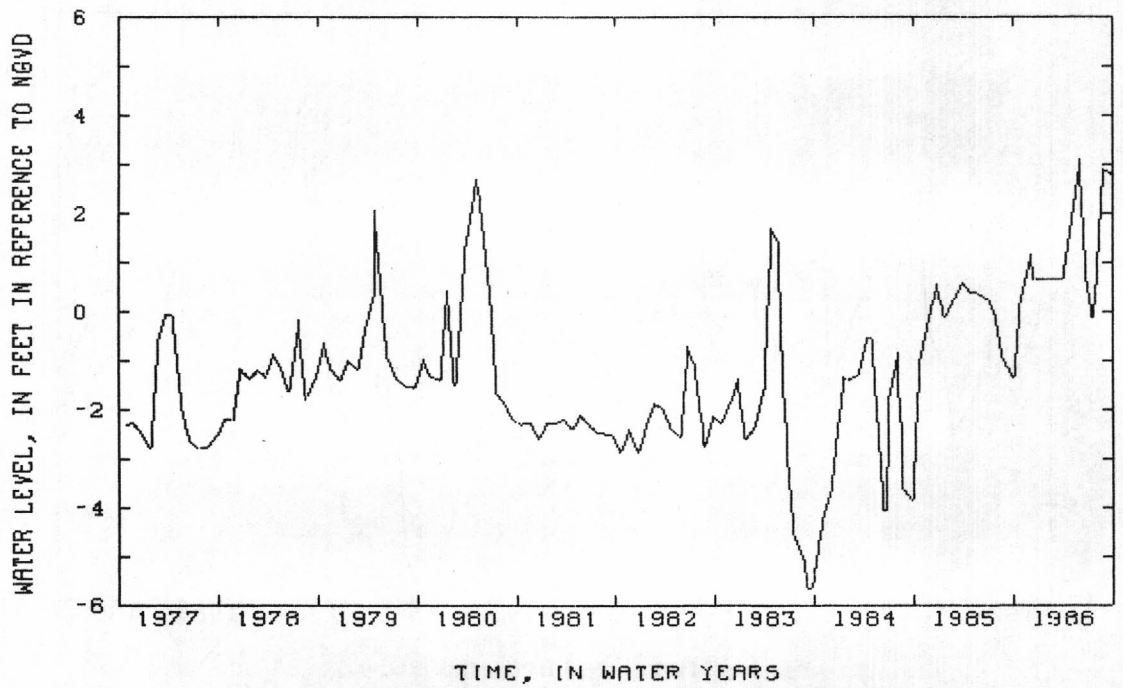


QUEENS COUNTY--Continued

404025073463801. Local number, Q 2422.1
LOCATION.--Lat 40°40'25", long 73°46'38", Hydrologic Unit 02030202, at New York Boulevard and 132nd Avenue, Jamaica. Owner: Jamaica Water Supply Company.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in, depth 370 ft, screened 342 to 362 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 21.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 1.21 ft above land-surface datum.
PERIOD OF RECORD.--October 1964 to current year. Unpublished records from October 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.11 ft NGVD, May 28, 1986; lowest measured, -5.65 ft NGVD, Sep. 7, 1970, & Sep. 9 & 11, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	0.16	DEC 16	0.65	MAY 28	3.11	JUL 22	-0.12	AUG 25	2.89	SEP 30	2.79
DEC 2	1.16	MAR 28	0.67	JUN 26	0.59						



QUEENS COUNTY--Continued

404654073465901. Local number, Q 3119.1
LOCATION.--Lat 40°46'54", long 73°46'59", Hydrologic Unit 02030201, at 18th Avenue and 211th Street, Bayside, Queens, Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 40 ft, screened 37 to 40 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 38 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.21 ft above land-surface datum.
PERIOD OF RECORD.--September 1980 to current year. Unpublished records from September 1980 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.35 ft NGVD, Sept. 26, 1983; lowest measured, 18.06 ft NGVD, Oct. 4, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	19.10	DEC 4	18.99	APR 2	19.07	JUN 9	18.81	SEP 2	18.46		

404631073543901. Local number, Q 3121.1
LOCATION.--Lat 40°46'31", long 73°54'39", Hydrologic Unit 02030201, at 24th Avenue and 32nd Street, Astoria, Queens. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 47 ft, screened 44 to 47 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 50.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling 0.14 ft above land-surface datum.
PERIOD OF RECORD.--September 1980 to current year. Unpublished records from September 1980 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.54 ft NGVD, June 27, 1984; lowest measured, 19.83 ft NGVD, Oct. 15, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	19.83	DEC 4	23.86	APR 7	23.26	JUN 9	23.50				

404112073500901. Local number, Q 3160.1
LOCATION.--Lat 40°41'12", long 73°50'09", Hydrologic Unit 02030202, at 108th Street and 101st Avenue, Woodhaven. Owner: New York City.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 65 ft, screened 60 to 65 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 45.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.22 ft below land-surface datum.
REMARKS.--Replaced well N 1254.1 in March 1984, 190 ft south of 101st Avenue, which had a period of record from 1940 to 1984. Well also sampled for water quality.
PERIOD OF RECORD.--Record began in March 1984.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.34 ft NGVD, Aug. 27, 1984: lowest measured, 6.08 ft NGVD, MAR. 2, 1984.

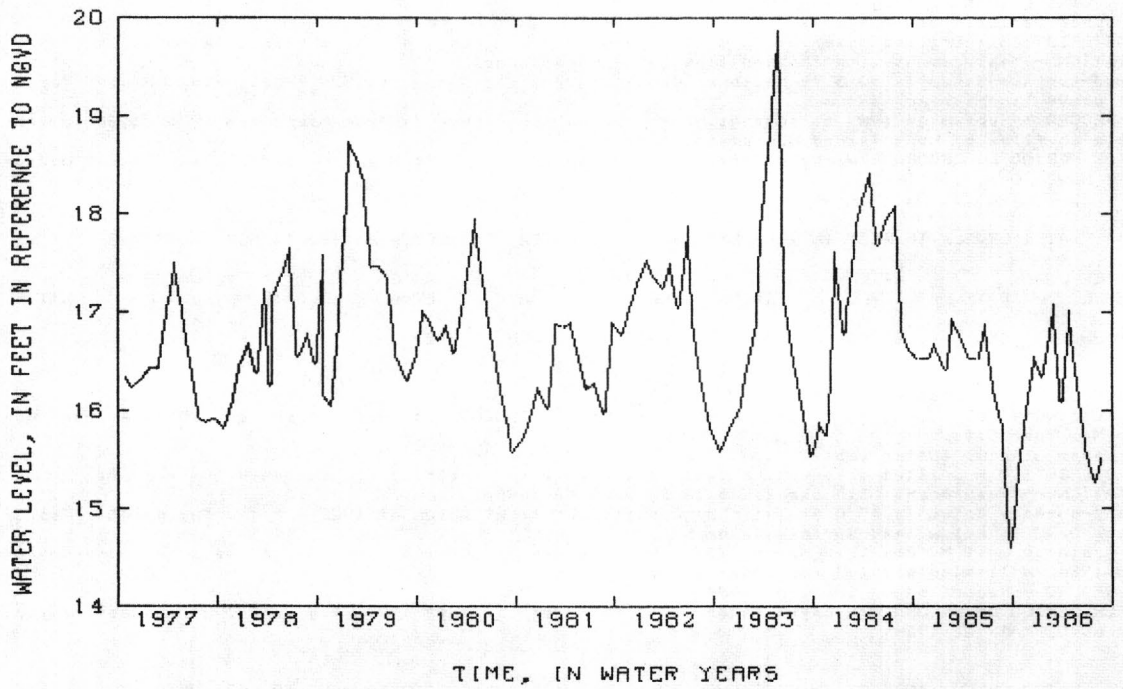
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	6.53	DEC 17	6.73	FEB 28	7.10	APR 22	7.39	JUN 30	7.13	AUG 21	7.06
NOV 18	6.61	JAN 16	6.85	APR 2	7.33	MAY 19	7.31	JUL 24	6.96		

404213073201001. Local number, S 1803.1
LOCATION.--Lat 40°42'13", long 73°20'10", Hydrologic Unit 02030202, at Little East Neck Road and State Highway 109, Babylon. Owner: New York State Department of Transportation.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 19 ft, screened 16 to 19 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and Town of Babylon personnel.
DATUM.--Land-surface datum is 23.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.08 ft above land-surface datum.
PERIOD OF RECORD.--October 1912 to current year. Unpublished records from October 1912 to November 1914, August and September 1932, June 1936 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.87 ft NGVD, May 23, 1983; lowest measured, 13.06 ft NGVD, July 26, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	15.47	DEC 17	16.55	FEB 27	17.08	APR 22	17.02	JUN 27	15.57	AUG 21	15.52
NOV 25	16.19	JAN 16	16.35	MAR 27	16.09	MAY 19	16.48	JUL 24	15.29		

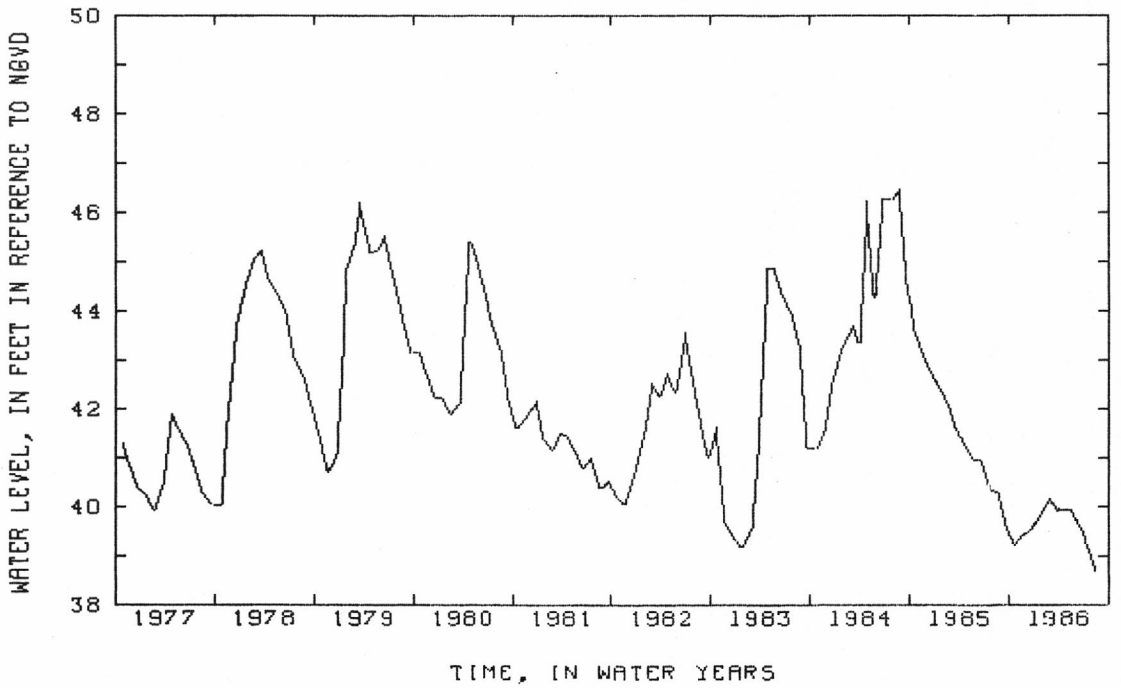


SUFFOLK COUNTY--Continued

404301073240901. Local number, S 1805.1
LOCATION.--Lat 40°43'01", long 73°24'09", Hydrologic Unit 02030202, at State Highway 109 and Albany Road, Maywood.
Owner: New York State Department of Transportation.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 2 in, depth 33 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS and Town of Babylon personnel.
DATUM.--Land-surface datum is 57.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.22 ft above land-surface datum.
PERIOD OF RECORD.--October 1912 to current year. Unpublished records from October 1912 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.17 ft NGVD, Apr. 28, 1953; lowest measured, 35.79 ft NGVD, Dec. 28, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	39.23	DEC 17	39.53	FEB 27	40.18	APR 22	39.93	JUN 27	39.49	AUG 21	38.63
NOV 18	39.43	JAN 16	39.76	MAR 27	39.94	MAY 19	39.93	JUL 24	39.04		

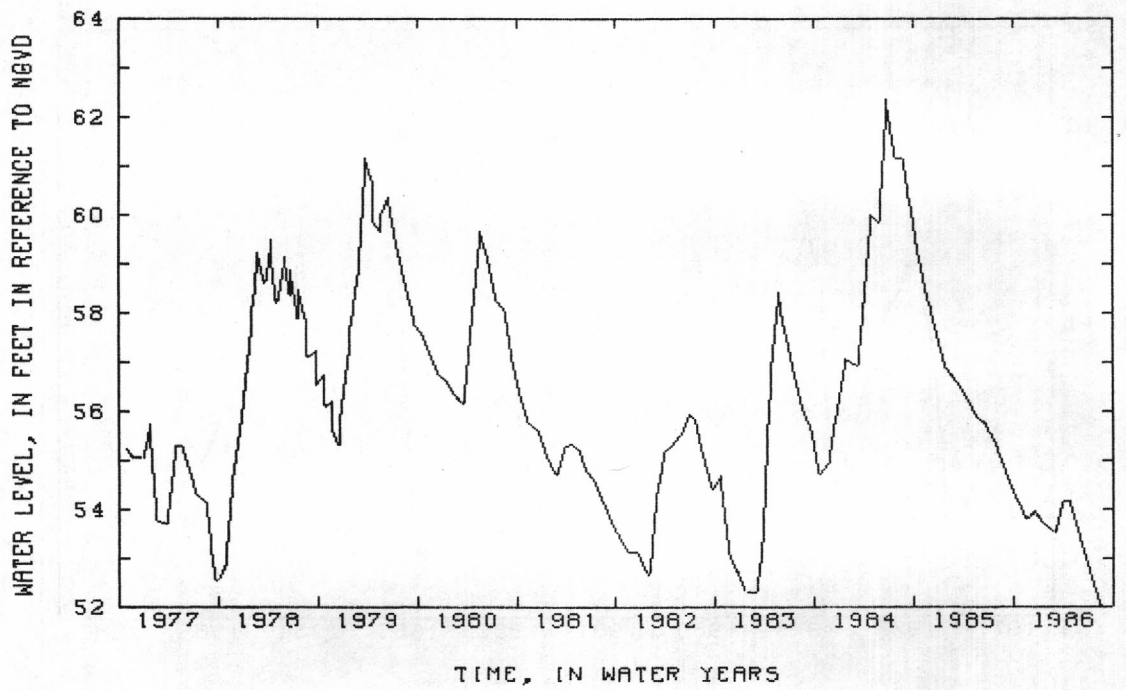


SUFFOLK COUNTY--Continued

404442073240501. Local number, S 1806.1
LOCATION. --Lat 40°44'42", long 73°24'05", Hydrologic Unit 02030202, at Conklin Street & Wellwood Avenue, Pinelawn.
Owner: Suffolk County Department of Public Works.
AQUIFER. --Upper Glacial (water-table).
WELL CHARACTERISTICS. --Driven observation well, diameter 1.25 in, depth 45 ft, screened 40 to 45 ft.
INSTRUMENTATION. --Measurement with chalked tape by USGS and Town of Babylon personnel.
DATUM. --Land-surface datum is 86.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.49 ft below land-surface datum.
PERIOD OF RECORD. --October 1912 to current year. Unpublished records for October 1912 to November 1914, May to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD. --Highest water level measured, 62.37 ft NGVD, June 20, 1984; lowest measured, 46.97 ft NGVD, Jan. 25, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

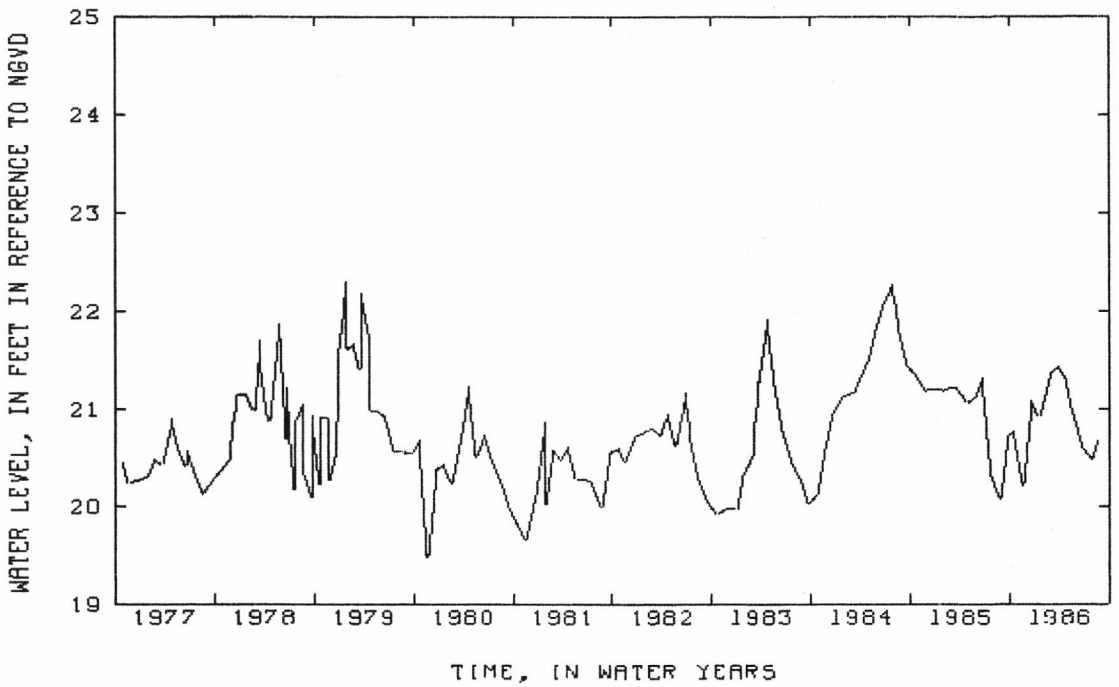
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	54.12	DEC 17	53.98	FEB 27	53.55	APR 22	54.16	JUN 27	52.92	AUG 21	52.01
NOV 18	53.81	JAN 16	53.74	MAR 27	54.14	MAY 19	53.76	JUL 24	52.37		



404319073184601. Local number, S 1807.1
LOCATION.--Lat 40°43'19", long 73°18'46", Hydrologic Unit 02030202, at Higbie Lane and Martin Drive, West Islip.
Owner: Town of Islip.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 21 ft, screened 19 to 21 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and Town of Babylon personnel
DATUM.--Land-surface datum is 23.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.97 ft above land-surface datum.
PERIOD OF RECORD.--October 1912 to current year. Unpublished records for October 1912 to November 1914, August 1932 to June 1933, and June 1936 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.06 ft NGVD, Sept. 30, 1938; lowest measured, 17.27 ft NGVD, July 23, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	20.77	NOV 18	20.23	JAN 16	20.91	MAR 27	21.44	MAY 19	21.00	JUL 24	20.48
24	20.68	DEC 17	21.08	FEB 27	21.36	APR 22	21.30	JUN 27	20.58	AUG 21	20.67



404221073164901. Local number, S 1808.5
LOCATION.--Lat 40°42'21", long 73°16'49", Hydrologic Unit 02030202, at Manor and Bardolier Lanes, West Islip.
Owner: Town of Islip.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 11 ft, screened 10 to 11 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 13.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.29 ft below land-surface datum.
REMARKS.--Replaced well S 1808.4 in June 1984 at same location. Unpublished records from October 1912 to September 1975 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--June 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.83 ft NGVD, July 23, 1984; lowest measured, 9.08 ft NGVD, July 24, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

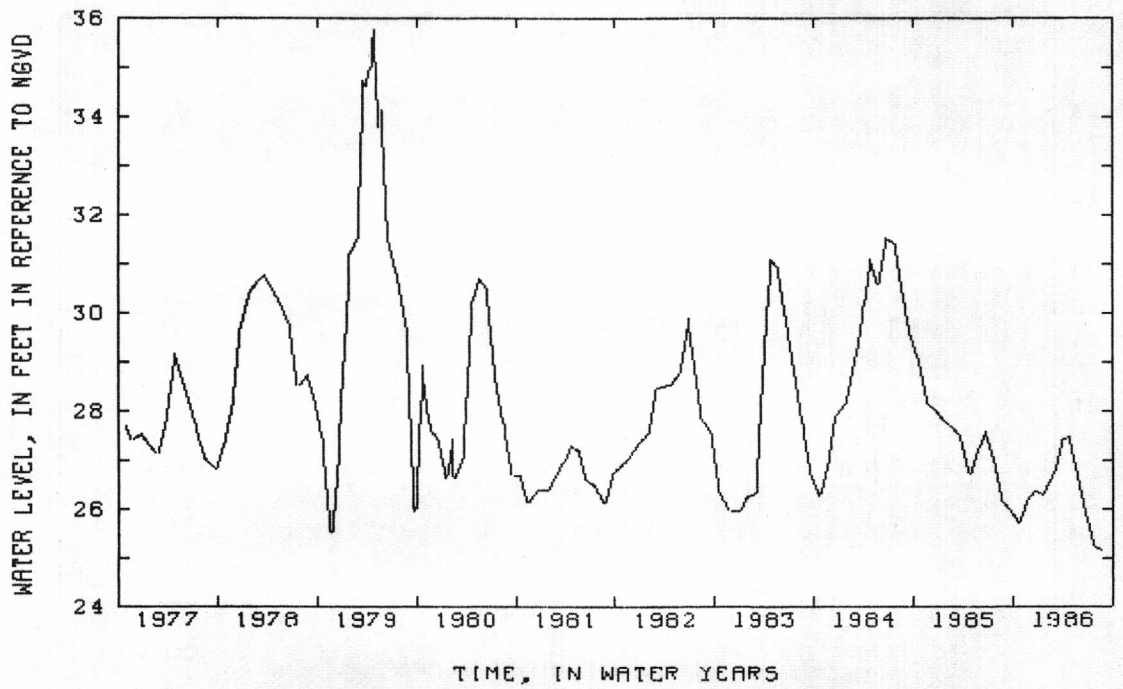
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	9.25	DEC 17	9.95	FEB 27	10.34	APR 22	10.26	JUN 27	9.27	AUG 21	9.36
NOV 18	9.91	JAN 16	9.81	MAR 27	10.22	MAY 19	9.74	JUL 24	9.08		

SUFFOLK COUNTY--Continued

404351073164901. Local number, S 1809.1
LOCATION.--Lat 40°43'51", long 73°16'49", Hydrologic Unit 02030202, at Manor Lane and Muncey Road, Bay Shore.
Owner: Town of Islip.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.2 in, depth 29 ft, screened 26 to 29 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 42.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.45 ft below land-surface datum.
PERIOD OF RECORD.--October 1912 to current year. Unpublished records for October 1912 to November 1914, and August 1932 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.77 ft NGVD, Apr. 26, 1979; lowest measured, 25.00 ft NGVD, Nov. 2, 1932.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

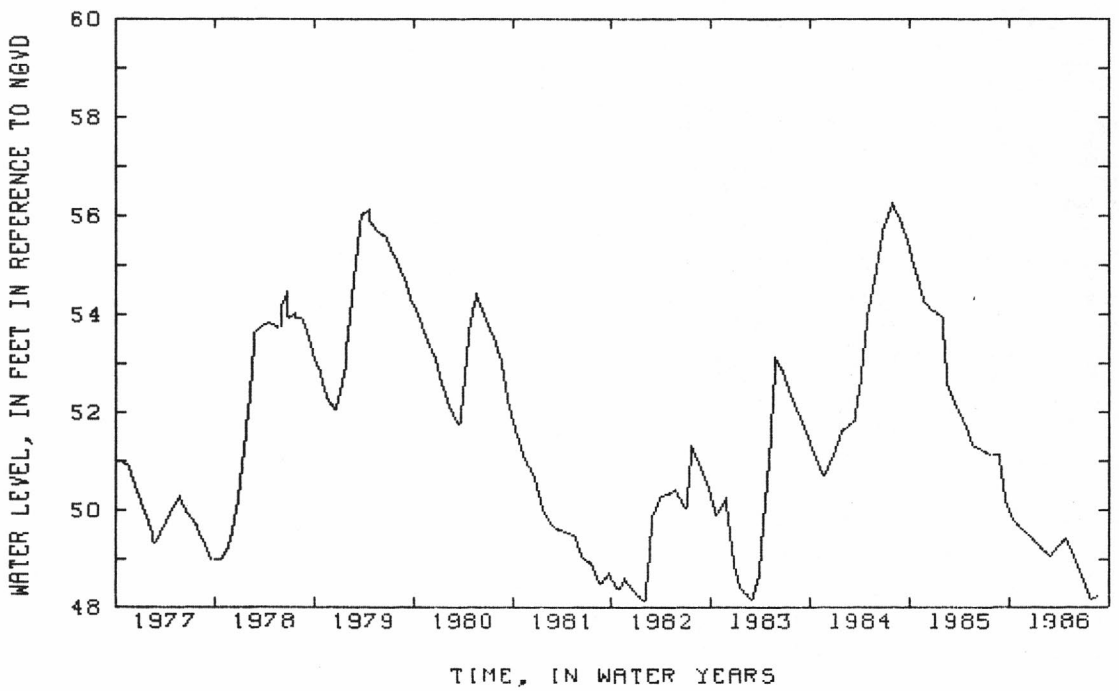
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	25.72	DEC 17	26.38	FEB 27	26.76	APR 22	27.47	JUN 27	25.83	AUG 21	25.17
NOV 18	26.18	JAN 16	26.31	MAR 27	27.41	MAY 19	26.94	JUL 24	25.23		



404614073164401. Local number, S 1810.1
LOCATION.--Lat 40°46'14", long 73°16'44", Hydrologic Unit 02030202, at Gardiner and Pine Aire Drives, Pine Aire. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Augered observation well, diameter 2 in, depth 55 ft, screened 52 to 55 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 91.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.35 ft below land-surface datum.
PERIOD OF RECORD.--October 1912 to November 1914, August 1932 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.28 ft NGVD, July 23, 1984; lowest measured, 43.30 ft NGVD, Feb. 27, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	49.77	DEC 17	49.46	FEB 27	49.07	APR 22	49.44	JUN 27	48.60	AUG 21	48.24
NOV 18	49.60	JAN 16	49.29	MAR 27	49.27	MAY 19	49.21	JUL 24	48.17		



404958073085001. Local number, S 1812.3
LOCATION.--Lat 40°49'58", long 73°08'50", Hydrologic Unit 02030202, at Smithtown Boulevard and Nichols Road, Ronkonkoma. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 50 ft, screened 46 to 50 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 69.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.68 ft below land-surface datum.
REMARKS.--Replaced well S 1812.2 in May 1982 at same location, unpublished records from April 1937 to September 1975 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--May 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.34 ft NGVD, July. 23, 1984; lowest measured, 43.26 ft NGVD, July 24 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	45.08	DEC 17	44.84	MAR 6	44.34	APR 22	44.76	JUN 25	43.82	AUG 21	43.80
NOV 18	45.03	JAN 16	44.42	25	44.62	MAY 20	44.46	JUL 24	43.26		

SUFFOLK COUNTY--Continued

404737073112303. Local number, S 1814.3
LOCATION.--Lat 40°47'37", long 73°11'23", Hydrologic Unit 02030202, at Suffolk Avenue and Dovecote Lane, Central Islip. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 54 ft, screened 51 to 54 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 63.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.35 ft below land-surface datum.
REMARKS.--Replaced well S 1814.2 in May 1982 at same location, unpublished records from November 1939 to September 1975 available in files of Long Island Sub-district office.
PERIOD OF RECORD.--May 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.50 ft NGVD, June 12, 1984; lowest measured, 35.60 ft NGVD, Sept. 8, 1986.

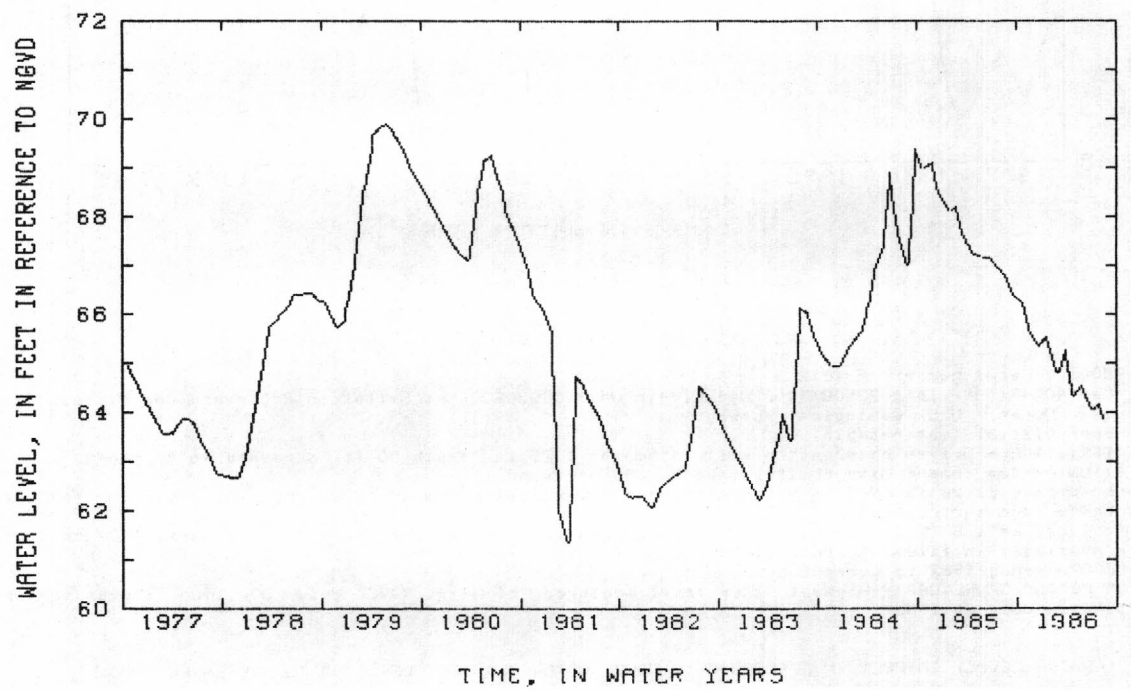
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	36.64	MAR 12	36.43	JUN 3	36.24	SEP 8	35.60				

405146073031801. Local number, S 3513.1
LOCATION.--Lat 40°51'46", long 73°03'18", Hydrologic Unit 02030202, at State Highway 25 and High View Drive, Selden. Owner: New York Department of Transportation.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in, depth 65 ft, screened 63 to 65 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 101 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of reducer, 1.31 ft above land-surface datum.
PERIOD OF RECORD.--April 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.91 ft NGVD, May. 29, 1979; lowest measured, 56.06 ft NGVD, Mar. 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	66.25	DEC 17	65.38	FEB 25	64.80	APR 22	64.33	JUL 2	64.03	AUG 21	63.82
NOV 18	65.65	JAN 16	65.53	MAR 25	65.28	MAY 20	64.52	24	64.16		

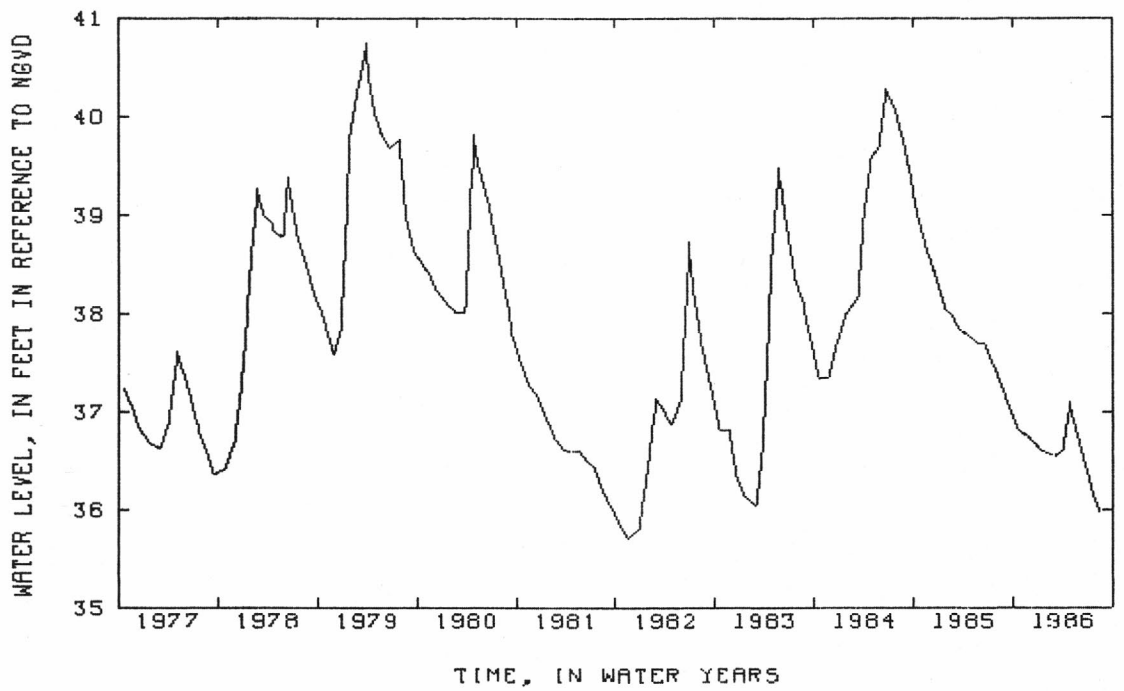


SUFFOLK COUNTY--Continued

404812073004101. Local number, S 3521.1
LOCATION.--Lat 40°48'12", long 73°00'41", Hydrologic Unit 02030202, at Medford Avenue, near Cedar Avenue, Medford.
Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 2 in, depth 50 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 72 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.57 ft above land-surface datum.
PERIOD OF RECORD.--January 1907 to current year. Unpublished records from January 1907 to July 1909, April 1942 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.75 ft NGVD, Mar. 27, 1979; lowest measured, 34.38 ft NGVD, Oct. 26, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	36.82	DEC 17	36.69	FEB 25	36.55	APR 22	37.10	JUN 25	36.41	AUG 20	35.97
NOV 18	36.77	JAN 16	36.60	MAR 26	36.60	MAY 20	36.79	JUL 24	36.11		

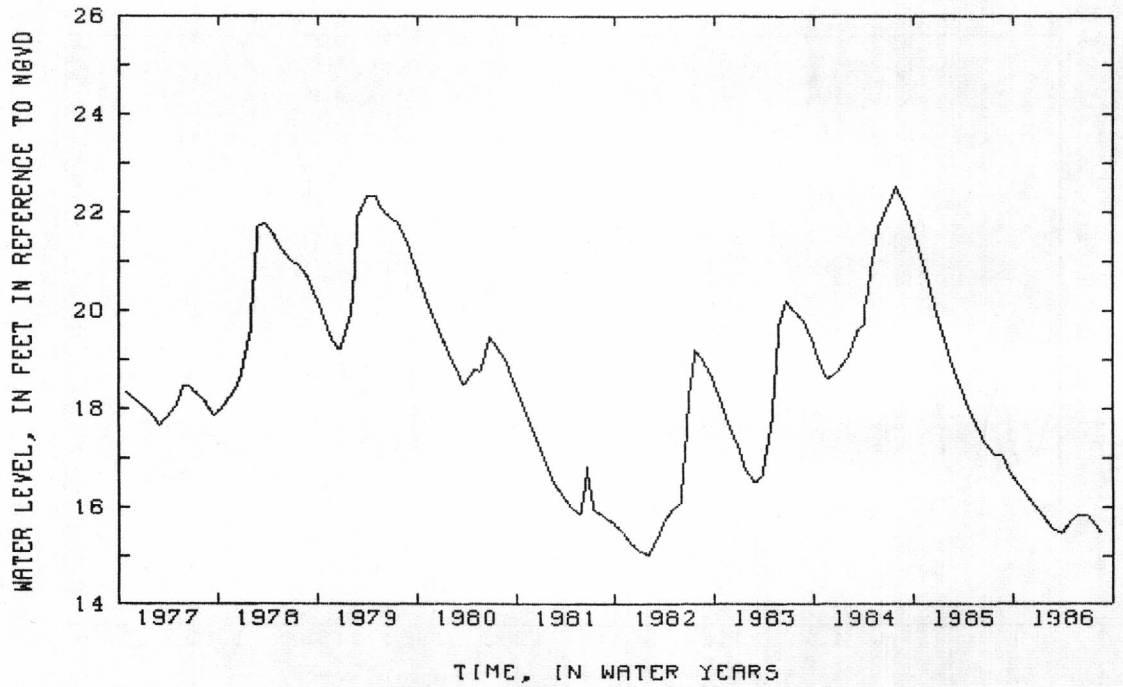


SUFFOLK COUNTY--Continued

405037072390301. Local number, S 3543.1
LOCATION.--Lat 40°50'37", long 72°39'03", Hydrologic Unit 02030202, at Old Riverhead Road and main entrance to Suffolk County Airport, Westhampton. Owner: City of New York.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 2 in, depth 58 ft, screened 56 to 58 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 64.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.04 ft above land-surface datum.
PERIOD OF RECORD.--March 1907 to December 1909, April 1942 to April 1943, January 1947 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.53 ft NGVD, July 23, 1984; lowest measured, 15.03 ft NGVD, Jan. 26, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

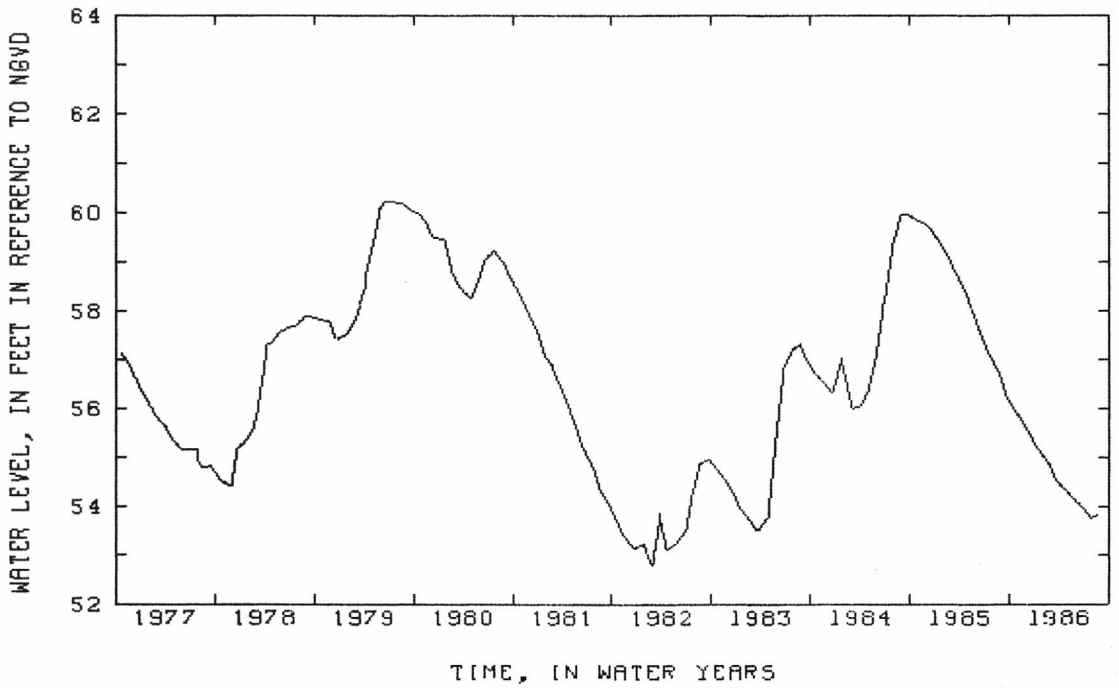
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	16.48	DEC 17	16.05	FEB 25	15.53	APR 22	15.69	JUN 25	15.84	AUG 20	15.46
NOV 18	16.28	JAN 16	15.82	MAR 26	15.47	MAY 20	15.84	JUL 24	15.64		



405343073055004. Local number, S 3955.4
LOCATION.--Lat 40°53'43", long 73°05'50", Hydrologic Unit 02030201, at Pond Path and Mark Tree Roads, Setauket.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Augered observation well, diameter 2 in, depth 80 ft, screened 76 to 80 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 123 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.24 ft below land-surface datum.
REMARKS.--Replaced well S 3955.3 in April 1975 at same location, unpublished records from September 1944 to September 1975 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--April 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.-Highest water level measured, 60.23 ft NGVD, June 21, 1979; lowest measured, 52.80 ft NGVD, Feb. 24, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	55.96	DEC 17	55.47	FEB 25	54.83	APR 22	54.35	JUN 25	53.96	AUG 21	53.84
NOV 18	55.75	JAN 16	55.16	MAR 25	54.51	MAY 21	54.17	JUL 24	53.78		



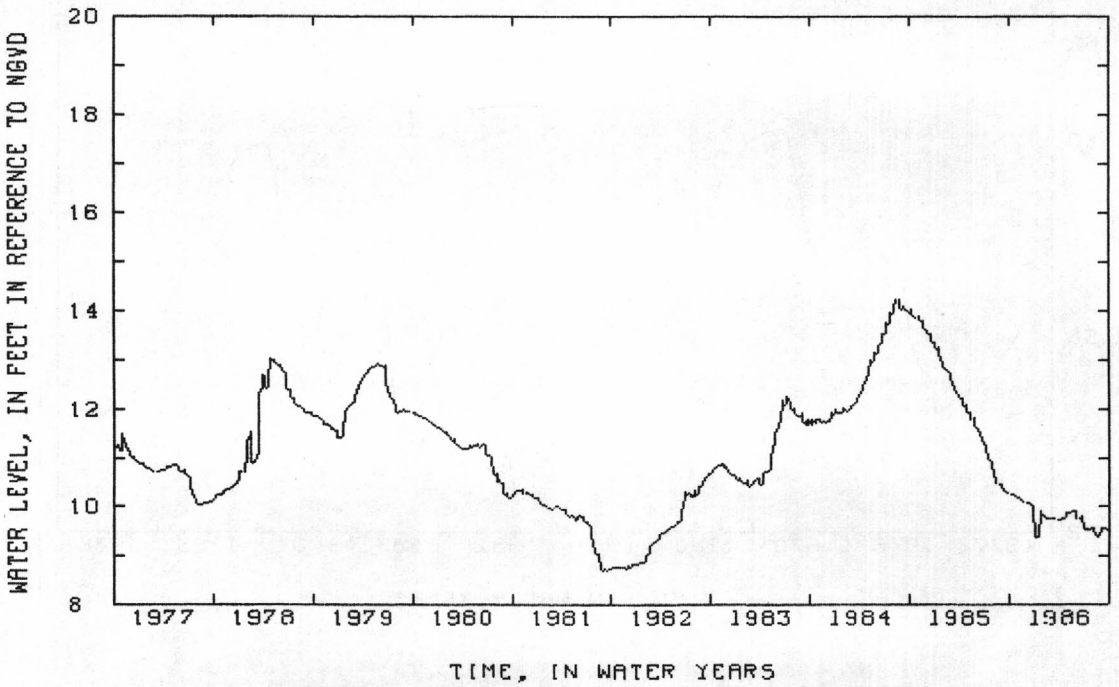
SUFFOLK COUNTY--Continued

405743072425701. Local number, S 4271.1
LOCATION.--Lat 40°57'43", long 72°42'57", Hydrologic Unit 02030202, at Long Island Research Farm, Sound Avenue, Riverhead. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.-Drilled observation well, diameter 4 in, depth 105 ft, screened 100 to 105 ft.
INSTRUMENTATION.--Measurement with chalked tape by Obsever.
DATUM.--Land-surface datum is 100 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 1.44 ft above land-surface datum.
PERIOD OF RECORD.--August 1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.25 ft NGVD, Aug. 12, 1984; lowest measured, 8.16 ft NGVD, Sept. 5, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	10.23 G	DEC 23	10.01 G	MAR 3	9.77 G	APR 28	9.86 G	JUN 23	9.81 G	AUG 18	9.41 G
28	10.16 G	JAN 6	9.37 G	17	9.74 G	MAY 12	9.87 G	JUL 7	9.53 G	SEP 1	9.57 G
NOV 11	10.12 G	20	9.89 G	31	9.72 G	27	9.89 G	20	9.55 G	14	9.58 G
25	10.08 G	FEB 3	9.83 G	APR 14	9.77 G	JUN 9	9.75 G	AUG 4	9.57 G	29	9.49 G
DEC 9	10.06 G	17	9.78 G								

G MEASUREMENT BY ANOTHER AGENCY

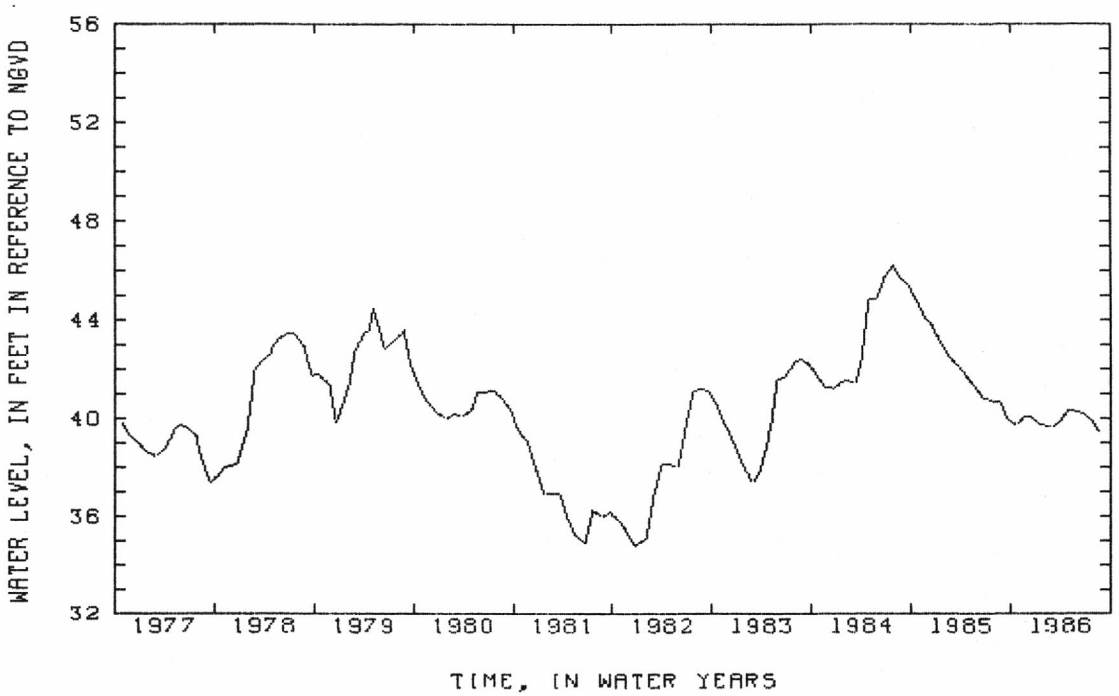


SUFFOLK COUNTY--Continued

405149072532201. Local number, S 5517.1
LOCATION.--Lat 40°51'49", long 72°53'22", Hydrologic Unit 02030202, at Upton Road and Princeton Avenue, Upton.
Owner: Brookhaven National Laboratory.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 91 ft, screened 85 to 91 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 115 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.04 ft above land-surface datum.
PERIOD OF RECORD.--April 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.93 ft NGVD, June 25, 1958; lowest measured, 33.34 ft NGVD, Mar. 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	39.72	DEC 17	40.01	FEB 25	39.63	APR 22	40.31	JUN 25	40.15	AUG 21	39.50
NOV 18	40.05	JAN 16	39.74	MAR 25	39.90	MAY 21	40.27	JUL 24	39.84		

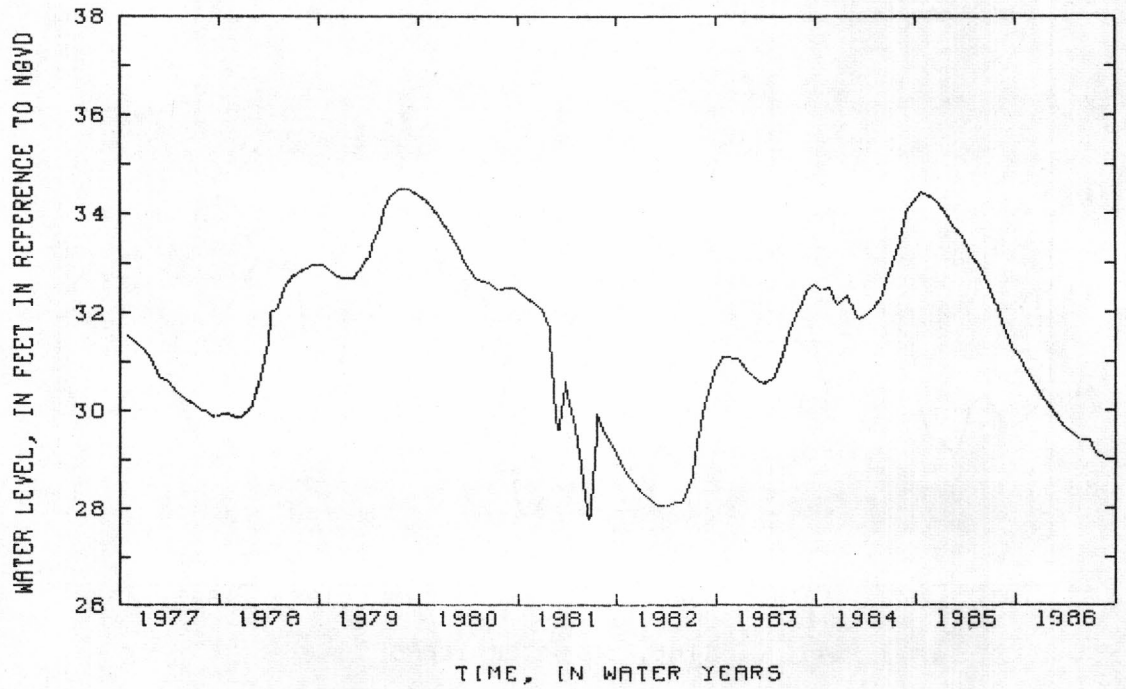


SUFFOLK COUNTY--Continued

405650072541801. Local number, S 6411.1
LOCATION.--Lat 40°56'50", long 72°54'18", Hydrologic Unit 02030202, at State Highway 25 and Randall Road, Shoreham. Owner: Brookhaven National Laboratory.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 149 ft, screened 143 to 149 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 138 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.13 ft above land-surface datum.
PERIOD OF RECORD.--November 1948 to current year, unpublished records from November 1948 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.49 ft NGVD, July 26, Aug. 28, 1979; lowest measured, 25.15 ft NGVD, Dec. 28, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	31.03	DEC 17	30.46	FEB 25	29.87	APR 22	29.52	JUN 25	29.41	AUG 21	29.02
NOV 18	30.75	JAN 16	30.21	MAR 25	29.68	MAY 21	29.41	JUL 24	29.10		



405223072523401. Local number, S 6434.1
LOCATION.--Lat 40°52'23", long 72°52'34", Hydrologic Unit 02030202, at 10th Street and 4th Avenue, Upton. Owner: Brookhaven National Laboratory.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well diameter 10 in, depth 1,395 ft, screened 1,312 to 1,392 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 85 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 inch nipple, 2.07 ft above land-surface datum. Well also sampled for water quality.
PERIOD OF RECORD.--August 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.11 ft NGVD, July 12, 1979; lowest measured, 28.74 ft NGVD, Mar. 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	31.93	DEC 9	31.83	MAR 25	31.34	JUN 2	31.11	SEP 16	30.38		

SUFFOLK COUNTY--Continued

405223072523403. Local number, S 6455.1
LOCATION.--Lat 40°52'23", long 72°52'34", Hydrologic Unit 02030202, at 10th Street and 4th Avenue, Upton. Owner: Brookhaven National Laboratory.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 962 ft, screened 952 to 962 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 84.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.16 ft below land-surface datum.
PERIOD OF RECORD.--July 1949 to June 1952, January 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.50 ft NGVD, Apr. 2, 1979; lowest measured, 33.82 ft NGVD, Dec. 27, 1966, Mar. 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 6	37.29	MAR 25	35.53	JUN 2	36.80	SEP 16	35.89				

410100072292501. Local number, S 6542.1
LOCATION.--Lat 41°01'00", long 72°29'25", Hydrologic Unit 02030202, at Depot Lane, 0.4 mi north of State Highway 25, Cutchogue. Owner: Cutchogue Fire Department.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled fire-protection well, diameter 6 in, depth 36 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 24.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Bottom outside edge of hose connection, 1.79 ft above land-surface datum.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.30 ft NGVD, June 22, 1984; lowest measured, 2.19 ft NGVD, Sept. 18, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	4.30	DEC 5	4.09	JUN 2	4.89	SEP 4	4.23				

405756072173501. Local number, S 8833.1
LOCATION.--Lat 40°57'56", long 72°17'35", Hydrologic Unit 02030202, at Toppings Path near Sag Harbor. Owner: Town of Southampton.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Driven observation well, diameter 2 in, depth 13 ft, screened 10 to 13 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 20 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.63 ft above land-surface datum.
PERIOD OF RECORD.--October 1950 to current year. Unpublished records from October 1950 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.47 ft NGVD, June 20, 1984; lowest measured, 12.84 ft NGVD, Mar. 29, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 6	13.89	MAR 12	14.26	JUN 2	14.26	SEP 18	13.52				

SUFFOLK COUNTY--Continued

405309072233101. Local number, S 8836.1
LOCATION.--Lat 40°53'09", long 72°23'31", Hydrologic Unit 02030202, at Nugent Street and Windmill Lane, Southampton. Owner: Southampton Fire Department.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled fire-protection well, diameter 8 in, depth 37 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 18.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.87 ft above land-surface datum.
PERIOD OF RECORD.--July 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.12 ft NGVD, June 21, 1984; lowest measured, 4.93 ft NGVD, Aug. 30, 1968.

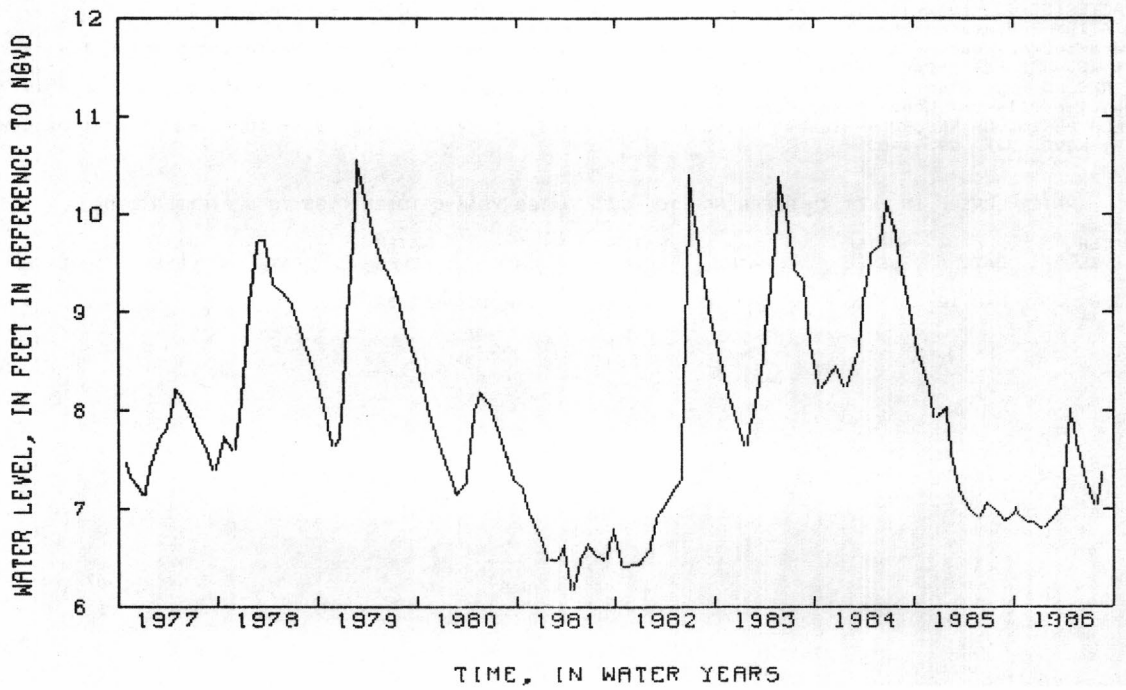
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 6	6.09	JUN 3	6.20	SEP 10	5.78	SEP 18	5.75	SEP 23	5.78	SEP 30	5.73
MAR 13	6.18	AUG 22	6.02	16	5.83						

405840072082301. Local number, S 8839.1
LOCATION.--Lat 40°58'40", long 72°08'23", Hydrologic Unit 02030202, at Windmill Lane and State Highway 27, Amagansett. Owner: D. Toler.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 37 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 39 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.97 ft above land-surface datum.
PERIOD OF RECORD.--August 1950 to current year. Unpublished records from August 1950 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 10.55 ft NGVD, Feb. 27, 1979; lowest measured, 6.10 ft NGVD, Oct. 27, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	7.02	NOV 18	6.86	JAN 16	6.80	MAR 26	7.20	MAY 20	7.64	JUL 24	7.04
22	6.94	DEC 17	6.85	MAR 10	6.99	APR 22	8.01	JUN 25	7.25	AUG 20	7.36



SUFFOLK COUNTY--Continued

404831072530501. Local number, S 9130.1
LOCATION.--Lat 40°48'29", long 72°53'05", Hydrologic Unit 02030202, at River Road, Shirley. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 28 ft, screened 25 to 28 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 26 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.08 ft above land-surface datum.
PERIOD OF RECORD.--June 1953 to current year. Unpublished records from June 1953 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.54 ft NGVD, June 14, 1984; lowest measured, 9.50 ft NGVD, Mar. 19, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	9.87										

405843072352902. Local number, S 16756.2
LOCATION.--Lat 40°58'43", long 72°35'29", Hydrologic Unit 02030202, at Herricks Lane, 0.25 mi south of Sound Avenue, Jamesport. Owner: Town of Riverhead.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 62 ft, screened 59 to 62 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 61 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.23 ft below land-surface datum.
REMARKS.--Replaced well 16756.1 in December 1975 at same location, which has a period of record from September 1958 to December 1975 unpublished and are available.
PERIOD OF RECORD.--September 1976 to current year. Unpublished records from September 1975 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.71 ft NGVD, June 22, 1984; lowest measured, 4.95 ft NGVD, Sept. 15, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	6.14	DEC 5	6.04	JUN 2	6.66	SEP 4	6.23				

410356072260301. Local number, S 16780.1
LOCATION.--Lat 41°03'56", long 72°26'03", Hydrologic Unit 02030202, at Horton Lane, 0.5 mi south of North Road, Southold. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 1.25 in, depth 50 ft, screened 47 to 50 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 43 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, at land-surface datum.
PERIOD OF RECORD.--September 1958 to current year. Unpublished records from September 1958 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.55 ft NGVD, Oct. 6, 1978; lowest measured, 1.45 ft NGVD, Aug. 31, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 3	3.01	SEP 4	2.36								

SUFFOLK COUNTY--Continued

410858072171501. Local number, S 16787.1
LOCATION.--Lat 41°08'58", long 72°17'15", Hydrologic Unit 02030201, at State Highway Route 25, Orient. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 44 ft screened 41 to 44 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 22 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.44 ft above land-surface datum.
PERIOD OF RECORD.--August 1958 to current year. Unpublished records from August 1958 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.16 ft NGVD, June 22, 1984; lowest measured, 1.12 ft NGVD, Aug. 8, 1966 .

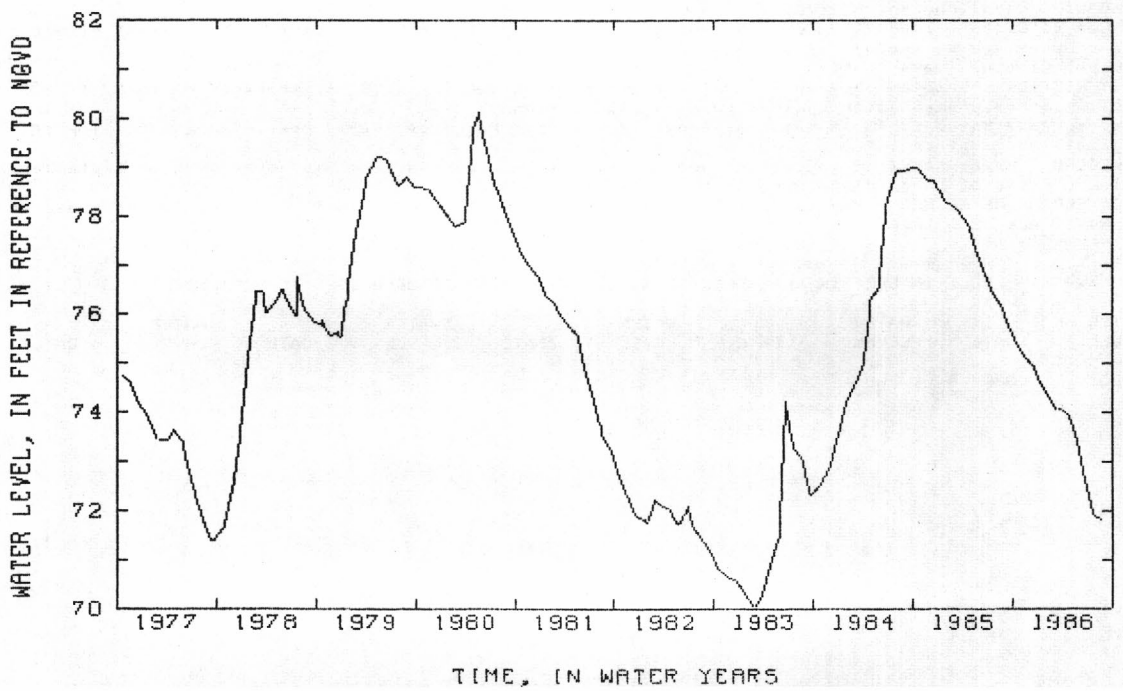
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	2.27	DEC 5	2.42	JUN 3	2.99	SEP 4	2.87				

404747073241501. Local number, S 16874.1
LOCATION.--Lat 40°47'47", long 73°24'15", Hydrologic Unit 02030202, at Old Country Road and New York Avenue, Huntington. Owner: Town of Huntington.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 in, depth 82 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 141.5 ft National Geodetic Vertical of 1929. Measuring point: Top of casing, 0.34 ft below land-surface datum.
PERIOD OF RECORD.--July 1958 to current year. Unpublished records from July 1958 to May 1959, August 1971 to September 1975, are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.14 ft NGVD, May. 21, 1980; lowest measured, 66.95 ft above NGVD, Oct. 20, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	75.37	DEC 17	74.93	MAR 12	74.02	APR 22	73.95	JUN 25	72.52	AUG 21	71.84
NOV 18	75.10	JAN 16	74.58	26	74.08	MAY 21	73.46	JUL 24	71.91		



SUFFOLK COUNTY--Continued

405446073180701. Local number, S 16884.1
LOCATION.--Lat 40°54'46", long 73°18'07", Hydrologic Unit 02030201, at Route 25A and Fresh Pond Road, Fort Salonga. Owner: Suffolk County Department of Health Services.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 43 ft, screened 40 to 43 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 34 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.14 ft above land-surface datum.
PERIOD OF RECORD.--July 1958 to current year. Unpublished records from July 1958 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.75 ft NGVD, June 20, 1979; lowest measured, 15.02 ft NGVD, Oct. 28, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	18.56	MAR 18	18.40	JUN 2	17.89						

405528073114802. Local number, S 17987.2
LOCATION.--Lat 40°45'28", long 73°11'48", Hydrologic Unit 02030202, at Carleton Avenue, 260 ft north of Spur Drive Islip Terrace. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 16 ft, screened 13 to 16 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 36 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.20 ft below land-surface datum.
REMARKS.--Replaced well S 17987.1 in March 1981 at same location, which has a period of record from April 1959 to March 1981 (unpublished).
PERIOD OF RECORD.--March 1981 to current year. Unpublished records from March 1981 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.95 ft NGVD, June 12, 1984; lowest measured, 18.90 ft NGVD, Mar. 24, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

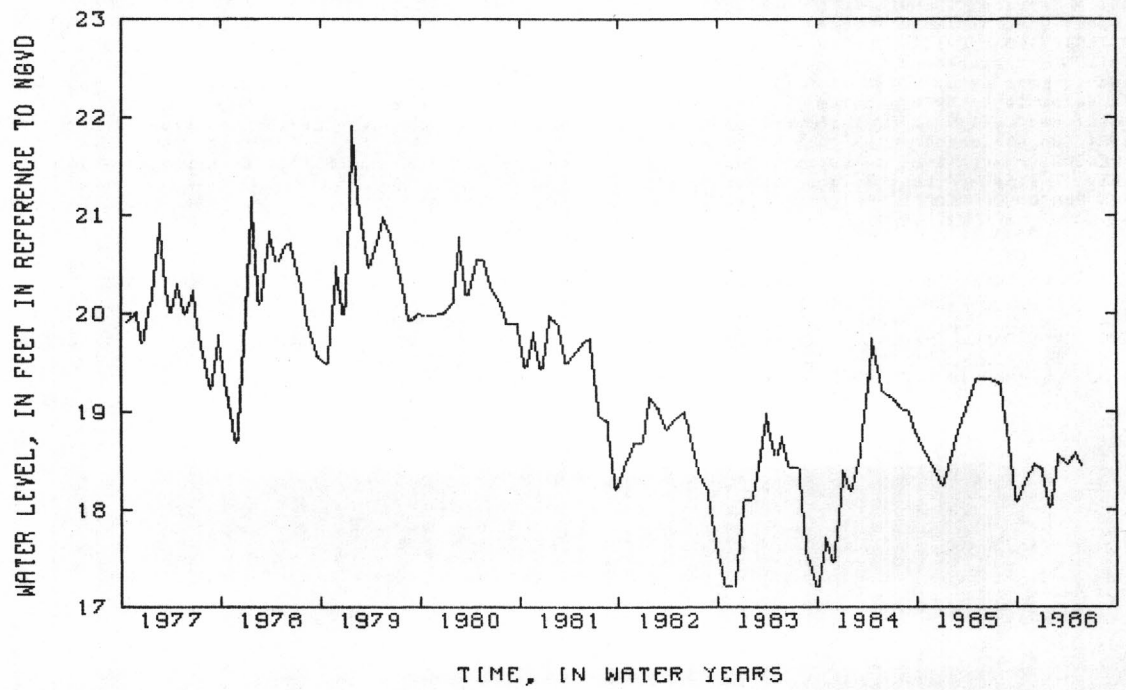
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	25.32	MAR 18	25.99	JUN 3	24.91	SEP 9	23.73				

SUFFOLK COUNTY--Continued

403727073154601. Local number, S 21091.1
LOCATION.--Lat 40°37'27", long 73°15'46", Hydrologic Unit 02030202, at Robert Moses State Park, Fire Island.
Owner: Long Island State Park Commission.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 1,921 ft, screened 1,918 to 1,921 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 10 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 13.68 ft above land-surface datum.
REMARKS.--Well also sampled for water quality.
PERIOD OF RECORD.--June 1962 to current year. Unpublished records from June 1962 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.10 ft NGVD, Mar. 16, 1976; lowest measured, 15.13 ft NGVD, June 2, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

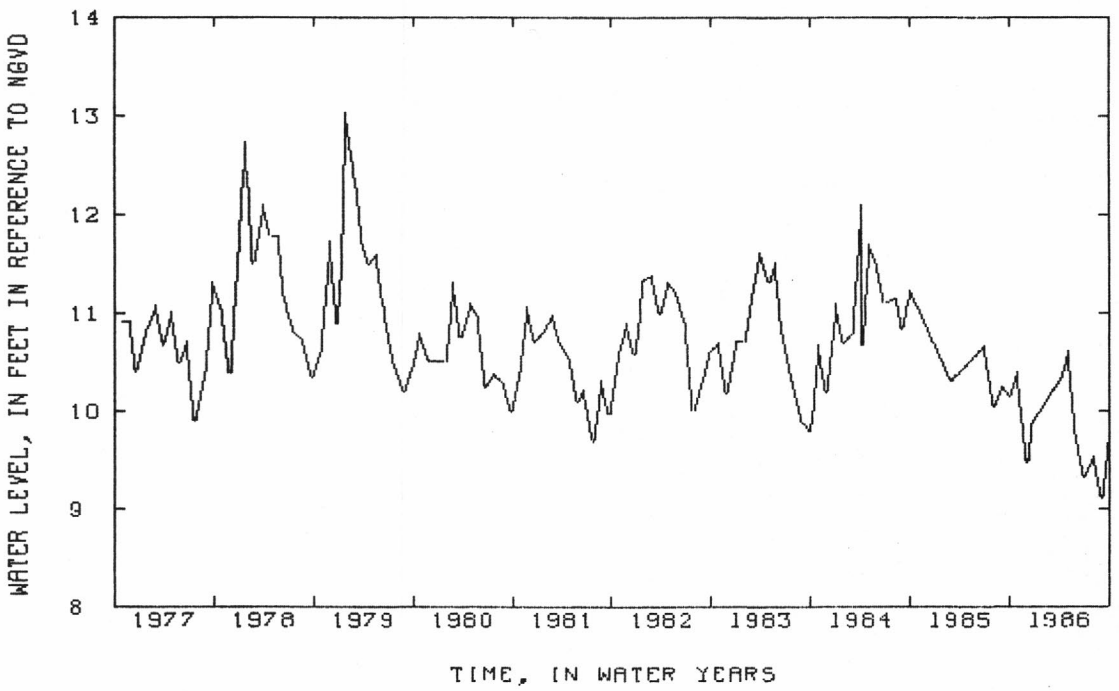
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	18.28	DEC 31	18.41	FEB 28	18.56	MAR 31	18.46	APR 30	18.58	MAY 31	18.43
NOV 30	18.47	JAN 31	18.03								



403727073154503. Local number, S 21311.1
LOCATION.--Lat 40°37'27", long 73°15'46", Hydrologic Unit 02030202, at Robert Moses State Park, Fire Island.
Owner: Long Island State Park Commission.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 721 ft, screened 711 to 721 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 10 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 20.01 ft above land-surface datum.
PERIOD OF RECORD.--June 1962 to current year. Unpublished records from June 1962 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.04 ft NGVD, Jan. 25, 1979; lowest measured, 5.35 ft above NGVD, Feb. 23, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	10.40	DEC 16	9.87	APR 30	10.61	JUL 1	9.33	AUG 31	9.11	SEP 20	9.66
DEC 3	9.48	APR 1	10.34	MAY 31	9.75	31	9.54				



404902073094002. Local number, S 22578.1
LOCATION.--Lat 40°49'02", long 73°09'40", Hydrologic Unit 02030202, at L. I. Motor Parkway, near Nichols Road, Hauppauge. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 402 ft, screened 392 to 402 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 60 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in coupling, 2.89 ft above land-surface datum.
REMARKS.--Well also sampled for water quality.
PERIOD OF RECORD.--August 1964 to current year. Unpublished records from August 1964 to September 1975 are in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.25 ft NGVD, Mar. 28, 1979; lowest measured, 36.35 ft NGVD, Mar. 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	40.72	MAR 18	40.71	JUN 4	39.50	JUN 24	39.38	AUG 11	39.33		

SUFFOLK COUNTY--Continued

404828073114002. Local number, S 22580.1
LOCATION.--Lat 40°48'28", long 73°11'40", Hydrologic Unit 02030202, at Long Island Expressway Service Road and L. I. Motor Parkway, Central Islip. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 802 ft, screened 440 to 450 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 123 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 4.30 ft above land-surface datum.
PERIOD OF RECORD.--May 1964 to current year. Unpublished records from May 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.55 ft NGVD, Apr. 17, 1979; lowest measured, 34.01 ft NGVD, Jan. 27, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	38.36	MAR 10	37.82	JUN 3	36.69	SEP 8	36.56				

404828073114003. Local number, S 22581.1
LOCATION.--Lat 40°48'28", long 73°11'40", Hydrologic Unit 02030202, at Long Island Expressway Service Road and L. I. Motor Parkway, Central Islip. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 450, screened 440 to 450 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 123 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 4.28 ft above land-surface datum.
PERIOD OF RECORD.--August 1964 to current year. Unpublished records from August 1964 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.93 ft NGVD, Apr. 17, 1979; lowest measured, 34.21 ft NGVD, Jan. 27, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	39.71	MAR 10	39.01	JUN 4	36.46	SEP 8	37.89				

404819073160303. Local number, S 24769.1
LOCATION.--Lat 40°48'19", long 73°16'03", Hydrologic Unit 02030202, at Vanderbilt Parkway and Wicks Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 810 ft, screened 800 to 810 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 139 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.98 ft above land-surface datum.
PERIOD OF RECORD.--August 1965 to current year. Unpublished records from August 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.33 ft NGVD, Sept. 29, 1984; lowest measured, 45.31 ft NGVD, Mar. 7, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 3	48.83										

SUFFOLK COUNTY--Continued

404829073161502. Local number, S 24770.1
LOCATION.--Lat 40°48'19", long 73°16'03", Hydrologic Unit 02030202, at Vanderbilt Parkway and Wicks Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (Confined).
WELL CHARACTERISTICS--Drilled observation well, diameter 4 in, depth 434 ft, screened 424 to 434 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 139 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.01 ft above land-surface datum.
PERIOD OF RECORD.--August 1965 to current year. Unpublished records from August 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.48 ft NGVD, May 2, 1979; lowest measured, 45.66 ft NGVD, Mar. 7, 1966.

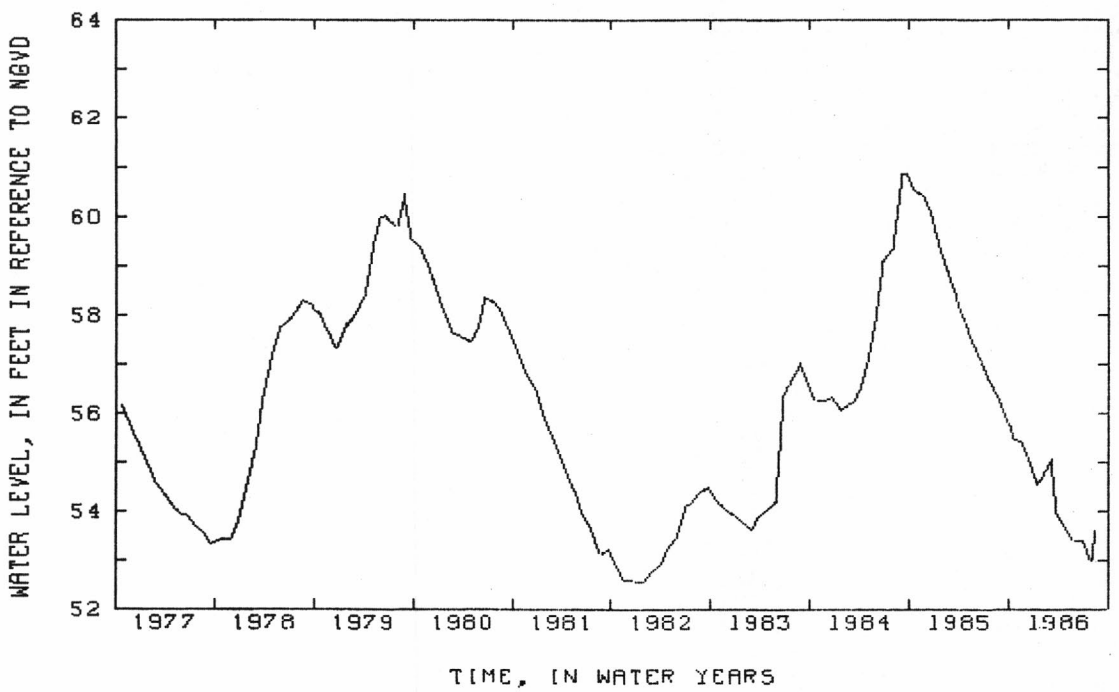
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 3	49.44										

404820073160303. Local number, S 24771.1
LOCATION.--Lat 40°48'20", long 73°16'03", Hydrologic Unit 02030202, at Vanderbilt Parkway and Wicks Road, Brentwood. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 127 ft, screened 117 to 127 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 139 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.86 ft above land-surface datum.
REMARKS.--Well also sampled for water quality.
PERIOD OF RECORD.--August 1965 to current year. Unpublished records from August 1965 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 60.88 ft NGVD, Aug. 28, Sept. 24, 1984; lowest measured, 43.50 ft NGVD, Nov. 30, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	55.47	DEC 17	55.01	MAR 4	55.07	APR 22	53.67	JUN 25	53.40	AUG 14	53.60
NOV 18	55.40	JAN 16	54.57	26	53.94	MAY 20	53.41	JUL 24	52.99	21	53.48



SUFFOLK COUNTY--Continued

404603073214803. Local number, S 27739.1
LOCATION.--Lat 40°46'03", long 73°21'48", Hydrologic Unit 02030202, at Landscape Drive, near Seamans Road, Wyandanch. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 850 ft, screened 840 to 850 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 139 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.37 ft above land-surface datum.
PERIOD OF RECORD.--May 1966 to current year. Unpublished records from May 1966 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.97 ft NGVD, Mar. 20, 1979; lowest measured, 50.85 ft NGVD, Feb. 15, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	58.87	MAR 12	58.54	JUN 4	55.88	SEP 4	55.60				

404703073264201. Local number, S 29776.1
LOCATION.--Lat 40°47'10", long 73°26'40", Hydrologic Unit 02030202, at Round Swamp Road, near Long Island Expressway, Melville. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 720 ft, screened 710 to 720 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 193 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.44 ft above land-surface datum.
PERIOD OF RECORD.--May 1967 to current year. Unpublished records from May 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.91 ft NGVD, Sept. 29, 1984; lowest measured, 67.64 ft NGVD, June 27, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	80.63	MAR 12	79.04	JUN 4	77.39	SEP 4	76.57				

404703073264202. Local number, S 29777.1T
LOCATION.--Lat 40°47'10", long 73°26'40", Hydrologic Unit 02030202, at Round Swamp Road, near Long Island Expressway, Melville. Owner: U.S. Geological Survey.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 397 ft, screened 387 to 397 ft.
INSTRUMENTATION.--Measured with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 193 ft National Geadetic Vertical Datum of 1929. Measuring point: Top of casing, 1.80 ft above land-surface datum. Well also sampled for water quality.
PERIOD OF RECORD.--May 1967 to current year. Unpublished records from May 1967 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.60 ft NGVD, Dec. 12, 1984; lowest measured, 67.90 ft NGVD, May 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 30	75.44										

SUFFOLK COUNTY--Continued

405452073025701. Local number, S 32895.1
LOCATION.--Lat 40°54'52", long 73°02'57", Hydrologic Unit 02030202, at Jayne Boulevard, 0.7 mi south of State Highway 347, Terryville. Owner: Suffolk County Water Authority.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 845 ft, screened 840 to 845 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 165 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 1.92 ft above land-surface datum.
PERIOD OF RECORD.--March 1970 to current year. Unpublished records from March 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water-level measured, 46.54 ft NGVD, Dec. 11, 1984; lowest measured, 38.92 ft NGVD, July 26, 1971.

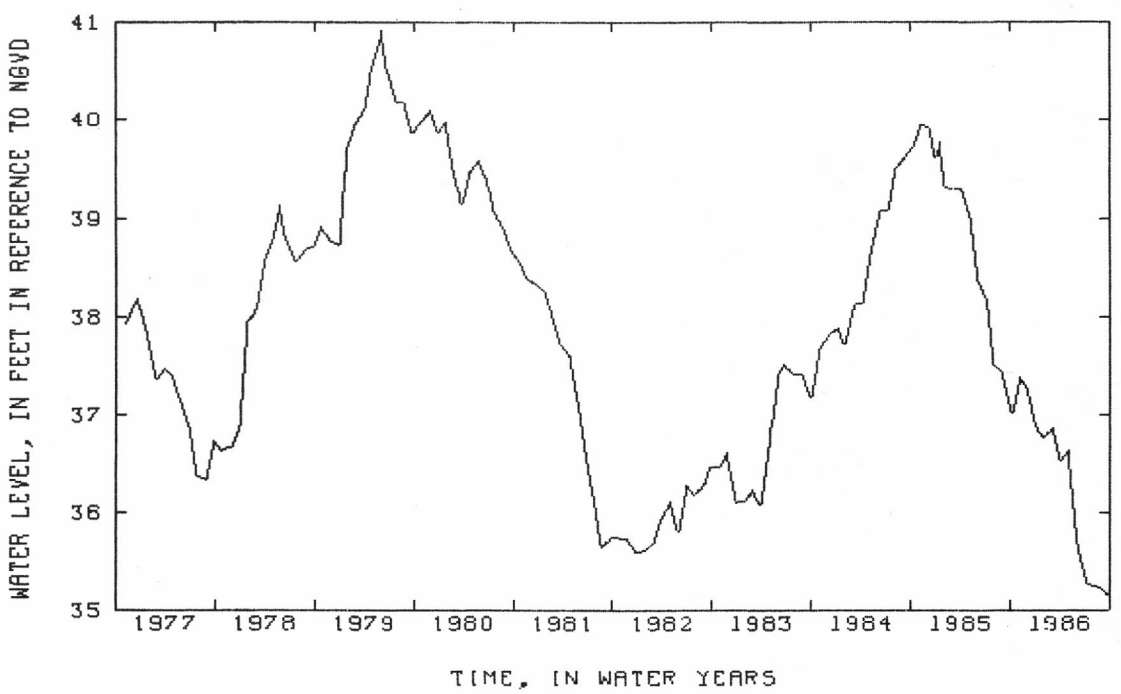
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12	43.48	MAR 12	43.43	JUN 2	39.34	SEP 8	41.08				

404935073055901. Local number, S 33379.1
LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncun Avenue and Portion Road, Lake Ronkonkoma. Owner: Suffolk County Water Authority.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 1,305 ft, screened 1,290 to 1,300 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 134 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.34 ft above land-surface datum.
REMARKS.--Well also sampled for water quality.
PERIOD OF RECORD.--October 1968 to current year. Unpublished records from October 1968 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.92 ft NGVD, Jun. 5, 1979; lowest measured, 34.13 ft NGVD, Oct. 11, 1968.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	37.02	DEC 3	37.27	FEB 3	36.77	APR 1	36.54	JUN 5	35.64	SEP 4	35.22
NOV 7	37.38	JAN 9	36.83	MAR 5	36.86	MAY 5	36.64	JUL 10	35.27	26	35.15

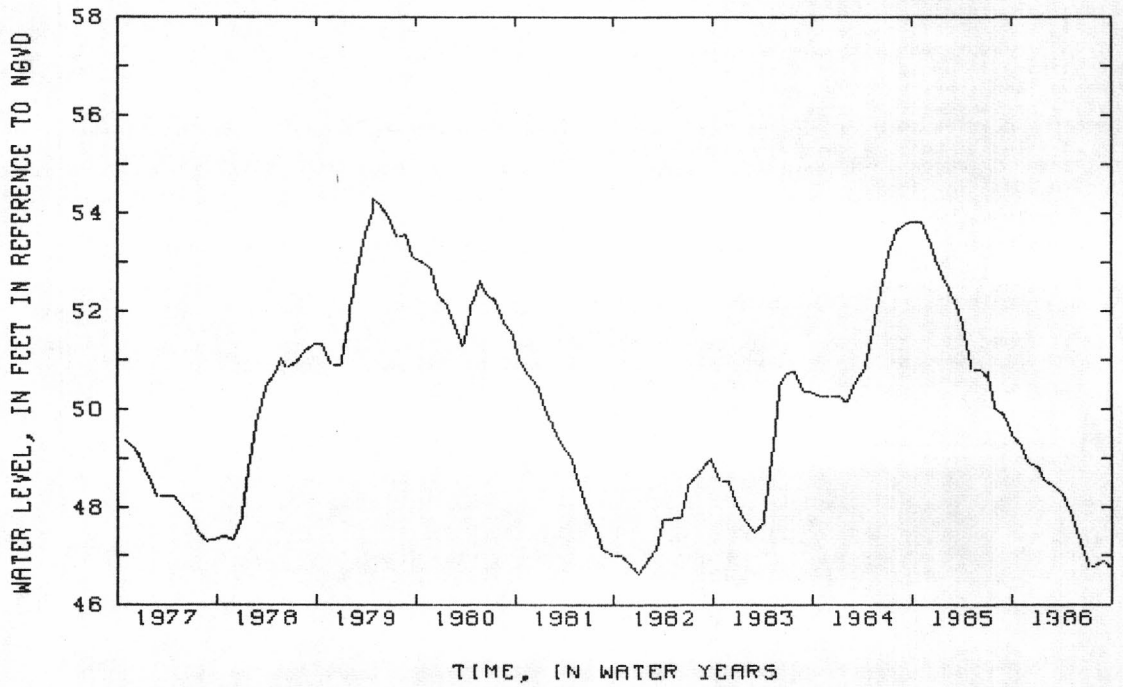


SUFFOLK COUNTY--Continued

404932073055902. Local number, S 33380.1
LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncun Avenue and Portion Road, Lake Ronkonkoma. Owner: Suffolk County Water Authority.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in, depth 850 ft, screened 840 to 850 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 134 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.63 ft above land-surface datum.
REMARKS.--Well also sampled for water quality.
PERIOD OF RECORD.--October 1968 to current year. Unpublished records from October 1968 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 54.30 ft NGVD, Apr. 27, 1979; lowest measured, 45.16 ft above NGVD, Dec. 5, 1969.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 8	49.44	DEC 3	48.90	FEB 3	48.55	APR 1	48.27	JUN 5	47.29	SEP 4	46.86
NOV 7	49.27	JAN 9	48.81	MAR 5	48.40	MAY 5	47.94	JUL 10	46.72	24	46.75



405517072574902. Local number, S 34892.1
LOCATION.--Lat 40°55'19", long 72°57'49", Hydrologic Unit 02030202, at Radio Avenue, 1.3 mi south of State Highway 25A, Rocky Point. Owner: Suffolk County Water Authority.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 138 ft, screened 124 to 138 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 122 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 01.18 ft above land-surface datum.
PERIOD OF RECORD.--July 1970 to current year. Unpublished records from July 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.82 ft NGVD, Sept. 15, 1984; lowest measured, 42.17 ft NGVD, Mar. 21, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	47.89	DEC 18	47.04 G								

G MEASUREMENT BY ANOTHER AGENCY

405517072574903. Local number, S 34894.1
LOCATION.--Lat 40°55'18", long 72°57'49", Hydrologic Unit 02030202, at Radio Avenue, 1.3 mi south of State Highway 25A, Rocky Point. Owner: Suffolk County Water Authority.
AQUIFER.--Magothy (confined).
WELL CHARACTERISTICS.--Drilled observation well, diameter 12 in, depth 745 ft, screened 698 to 745 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 123 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 inch nipple, 4.82 ft above land-surface datum.
PERIOD OF RECORD.--March 1970 to current year. Unpublished records from March 1970 to September 1975 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.99 ft NGVD, Sept. 15, 1984; lowest measured, 40.56 ft NGVD, Mar. 15, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	45.56	DEC 9	44.98	DEC 18	44.93 G	MAR 20	44.17	JUN 3	43.58	SEP 5	43.85

G MEASUREMENT BY ANOTHER AGENCY

404656073081401. Local number, S 36143.1
LOCATION.--Lat 40°46'56", long 73°08'14", Hydrologic Unit 02030202, at end of 7th Street, Bohemia. Owner: Town of Islip.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 62 ft, screened 59 to 62 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 72 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.33 ft above land-surface datum.
PERIOD OF RECORD.--October 1969 to current year. Unpublished records from October 1969 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.46 ft NGVD, Mar. 29, 1979; lowest measured, 29.93 ft NGVD, Oct. 29, 1969.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 7	31.41										

404640073050201. Local number, S 36144.1
LOCATION.--Lat 40°46'40", long 73°05'02", Hydrologic Unit 02030202, at Lincoln Avenue, Bohemia. Owner: Town of Islip.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 52.5 ft screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 54 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.84 ft above land-surface datum.
PERIOD OF RECORD.--November 1970 to current year. Unpublished records from November 1970 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.96 ft NGVD, Mar. 29, 1979; lowest measured, 31.88 ft NGVD, Dec. 15, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	34.34	MAR 12	33.64	JUN 3	33.59	SEP 9	32.85				

SUFFOLK COUNTY--Continued

404707073023401. Local number, S 36145.1
LOCATION.--Lat 40°47'07", long 73°02'34", Hydrologic Unit 02030202, at Patchogue-Holbrook Road and Waverly Avenue, near Islip-Brookhaven Town line, Holbrook. Owner: Suffolk County Department of Environmental Control.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 43 ft, screened 30 to 43 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 45 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.70 ft below land-surface datum.
PERIOD OF RECORD.--March 1970 to current year. Unpublished records from March 1970 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.90 ft NGVD, Apr. 10, 1979; lowest measured, 29.56 ft NGVD, Sept. 15, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 25	29.88										

405551072501601. Local number, S 36146.1
LOCATION.--Lat 40°55'51", long 72°50'16", Hydrologic Unit 02030202, at Wading River Road, Wading River. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 84.0 ft screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 100 ft National geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.51 ft above land-surface datum.
PERIOD OF RECORD.--October 1970 to current year. Unpublished records from October 1970 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.70 ft NGVD, Apr. 12, 1979; lowest measured, 32.08 ft NGVD, Dec. 16, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	35.02										

405153073241101. Local number, S 40841.1
LOCATION.--Lat 40°51'53", long 73°24'11", Hydrologic Unit 02030201, Park Avenue and Dunlop Road, Huntington. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, 2 in, depth 65.8 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 108 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.30 ft above land-surface datum.
PERIOD OF RECORD.--October 1971 to current year. Unpublished records from October 1971 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.82 ft NGVD, Dec. 10, 1984; lowest measured, 62.10 ft NGVD, Sept. 27, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 9	65.30	MAR 18	65.12	JUN 2	64.49	SEP 4	63.41				

405124073111501. Local number, S 40843.1
LOCATION.--Lat 40°51'24", Long 73°11'15", Hydrologic Unit 02030201, at Middle Country Road & Nissequogue Road, Smithtown. Owner: Town of Smithtown.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 44 ft, screened 41 to 44 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 66 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, at land-surface datum.
PERIOD OF RECORD.--July 1971 to current year. Unpublished records from July 1971 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.93 ft NGVD, Mar. 27, 1979; lowest measured, 33.84 ft NGVD, July 9, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 3	35.24	MAR 10	34.56	JUN 2	34.02	SEP 8	35.00				

405230073212101. Local number, S 46517.1.
LOCATION.--Lat 40°52'30", long 73°21'21", Hydrologic Unit 02030201, at Maple Road and Stony Hollow Road, Huntington. Owner: Town of Huntington.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 66 ft, screened 63 to 66 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 123.5 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, at land-surface datum.
PERIOD OF RECORD.--September 1979 to current year. Unpublished records from September 1979 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.61 ft NGVD, June 11, 1984; lowest measured, 67.21 ft NGVD, Mar. 17, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 9	67.50	MAR 18	67.44	JUN 2	67.78	SEP 4	67.56				

410218072093301. Local number, S 46519.1
LOCATION.--Lat 41°02'18", long 72°09'33", Hydrologic Unit 02030202, at White Birch Drive and Hog Creek Lane, East Hampton. Owner: Suffolk County Department of Health Services.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 33 ft, screened 30 to 33 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 32.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.08 ft below land-surface datum.
PERIOD OF RECORD.--November 1972 to current year. Unpublished records from November 1972 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.45 ft NGVD, Jan. 13, 1983; lowest measured, Dry, Sept. 16, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	2.89	MAR 12	3.09	JUN 2	2.80	SEP 18	2.31				

SUFFOLK COUNTY--Continued

405842072211401. Local number, S 46528.1
LOCATION.--Lat 40°58'42", long 72°21'14", Hydrologic Unit 02030202, at 127 ft south of Millstone Road and about 3,000 ft south of Noyack Road. Owner: Town of Southampton.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 102 ft, screened 99 to 102 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 125.5 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.32 ft below land-surface datum.
PERIOD OF RECORD.--November 1972 to current year. Unpublished records from November 1972 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.02 ft NGVD, July 3, 1979; lowest measured, 36.23 ft NGVD, Mar. 26, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 23	36.31										

405332072262201. Local number, S 46531.1
LOCATION.--Lat 40°53'32", long 72°26'22", Hydrologic Unit 02030202, at Tuckahoe Road, 189 ft north of Route 27, Southampton. Owner: Town of Southampton.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 42 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 36.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.13 ft below land-surface datum.
PERIOD OF RECORD.--November 1972 to current year. Unpublished records from November 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.20 ft NGVD, June 21, 1884; lowest measured, 3.47 ft NGVD, Dec. 30, 1980.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 6	3.85	MAR 13	3.97	JUN 2	3.92	SEP 23	3.59				

405020072355801. Local number, S 46540.1
LOCATION.--Lat 40°50'20", long 72°35'58", Hydrologic Unit 02030202, at intersection of Railroad and Midhampton Avenues, Quogue. Owner: Town of Southampton.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 41 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 38 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.24 ft below land-surface datum.
PERIOD OF RECORD.--November 1972 to current year. Unpublished records from November 1972 to September 1977 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.64 ft NGVD, Apr. 2, 1979; lowest measured, 6.96 ft NGVD, Dec. 18, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 6	7.45	MAR 13	7.71	JUN 3	7.76	SEP 25	7.13				

SUFFOLK COUNTY--Continued

405301072415101. Local number, S 46542.1
LOCATION.--Lat 40°53'01", long 72°41'51", Hydrologic Unit 02030202, at Speonk Road and County Road 51, Riverhead. Owner: Suffolk County Department of Public works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 149 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 163 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.15 ft above land-surface datum.
PERIOD OF RECORD.--December 1972 to current year. Unpublished records from December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured , 30.42 ft NGVD, June 29, 1979, Sept. 25, 1984; lowest measured, 22.59 ft NGVD, Mar. 18, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	24.96	JUN 2	23.46	SEP 4	23.02						

405139072432401. Local number, S 46544.1
LOCATION.--Lat 40°51'39", long 72°43'24", Hydrologic Unit 02030202, at County Road 51 and Service Road for Recharge Basin 34, Eastport. Owner: Suffolk County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 107 ft, screen assumed at bottom.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 103 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.29 ft below land-surface datum.
PERIOD OF RECORD.--December 1972 to current year. Unpublished records from December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.28 ft NGVD, June 28, 1979; lowest measured, 23.76 ft NGVD, Mar. 18, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	26.81										

405716072591701. Local number, S 46548.1
LOCATION.--Lat 40°57'15", long 72°59'16", Hydrologic Unit 02030201, at Woodhull Landing Road and Old Rocky Point Road, Miller Place. Owner: Town of Brookhaven.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 84 ft, screened 80 to 84 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 71 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.27 ft below land-surface datum.
PERIOD OF RECORD.--December 1972 to current year. Unpublished records from December 1972 to September 1976 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.33 ft NGVD, Sept. 27, 1984; lowest measured, 8.59 ft NGVD, Mar. 16, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

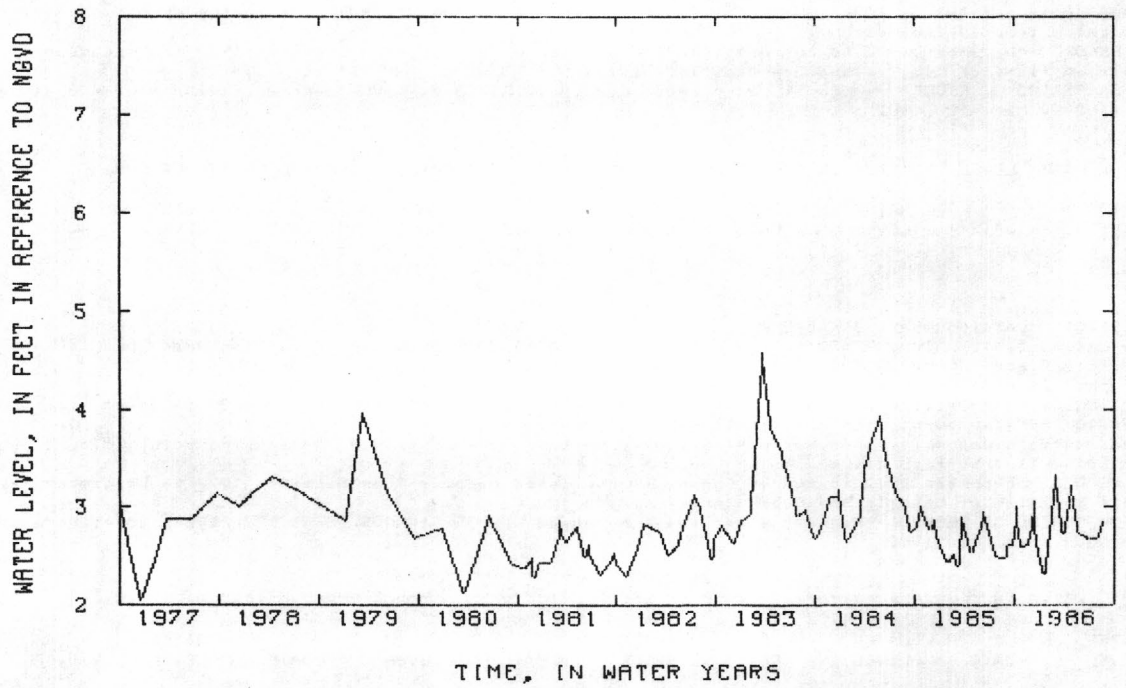
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	9.98										

410243071560101. Local number, S 48519.1
LOCATION.--Lat 41°02'42", long 71°56'05", Hydrographic Unit 02030202, at South Federal Street and South Fairview Avenue, East Hampton. Owner: Suffolk County Department of Health Services.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 82 ft, s11reened 68 to 78 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUN.--Land-surface datum is 63.5 ft National Geodetic Vertical Datum of 1929. Measuring Point: Top of Flange, 1.68 ft below land-surface datum.
PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.59 ft NGVD Mar. 15, 1983, lowest measured, 2.07 ft NGVD Dec. 22, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	3.00	DEC 11	3.05 G	JAN 16	2.32	MAR 26	2.74	MAY 20	2.73	JUL 24	2.68
22	2.58	17	2.72	FEB 25	3.33	APR 22	3.21	JUN 25	2.69	AUG 20	2.85
NOV 18	2.61										

G MEASUREMENT BY ANOTHER AGENCY



410149071583201. Local number, S 48577.1
LOCATION.--Lat 41°01'49", long 71°58'32", Hudrologic Unit 02030202, at Montauk Point Parkway, Hither Hills.
Owner: Suffolk County Department of Health Services.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 189 ft, screened 173 to 183 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 168 ft National Geodetic Vertical Datun of 1929. Measuring Point: Top of Flange, 1.51 ft below land-surface datum.
PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.50 ft NGVD, Sept. 18, 1979; lowest measured, -0.54 ft NGVD May 5, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	3.52	DEC 11	3.78 G	MAR 12	2.80	JUN 2	3.41	SEP 11	3.55		

G MEASUREMENT BY ANOTHER AGENCY

SUFFOLK COUNTY--Continued

410316071535501. Local number, S 48579.1
LOCATION.--Lat 41°03'16", long 71°53'54", Hydrologic Unit 02030202, at Montauk Highway, Montauk.
OWNER: Suffolk County Department of Health Services.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 6in, depth 66 ft, screened 53 to 56 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 38.6 ft National Geodetic Vertical Datum of 1929. Measuring Point: Top of Flange, 1.55 ft below land-surface datum.
PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.18 ft NGVD, JUNE 5, 1984; lowest measured, 2.46 ft NGVD, Dec. 22, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	2.93	DEC 11	3.24 G	MAR 12	2.95	JUN 2	3.20	SEP 11	3.27		

G MEASUREMENT BY ANOTHER AGENCY

405927072041901. Local number, S 57372.1
LOCATION.--Lat 40°59'27", long 72°04'19", Hydrologic Unit 02030202, at Montauk Highway, Napeague State Park.
Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 12 ft, screened 8 to 12 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 8 ft National Geodetic Vertical Datum of 1929. Measuring Point: Top of coupling, 0.03 ft above land-surface datum.
PERIOD OF RECORD.--January 1976 to current year. Unpublished records from January 1976 to September 1983 are available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.11 ft NGVD, June 22, 1982; lowest measured 2.39 ft NGVD, Sept. 24, 1980.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

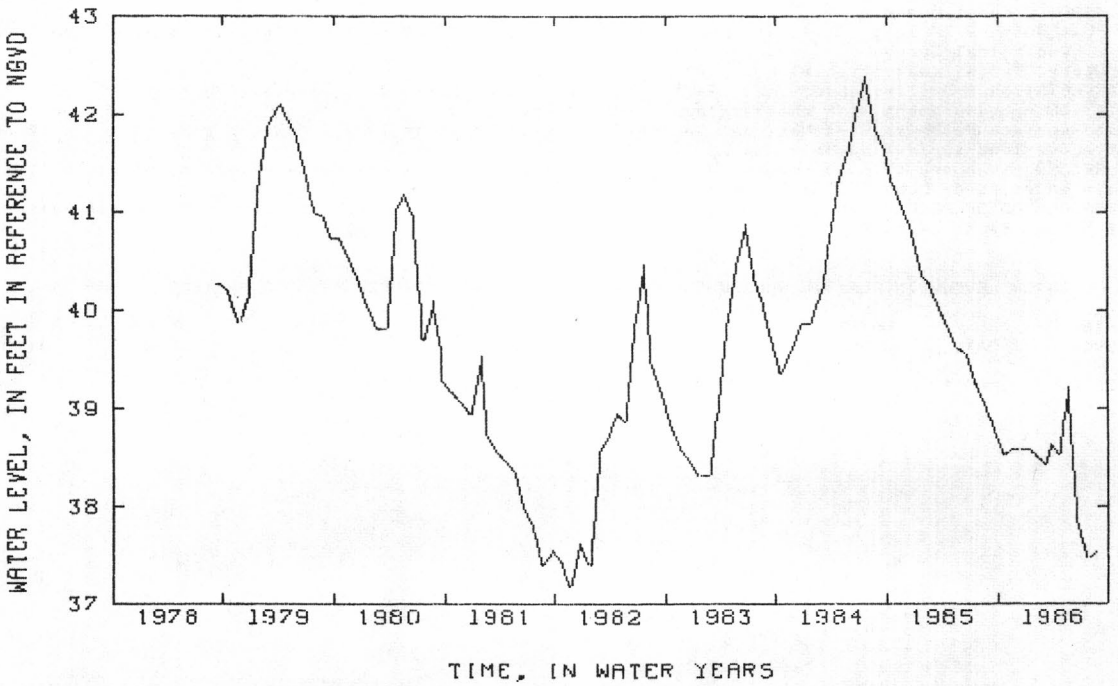
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 5	3.28	MAR 12	2.69	JUN 2	2.54	SEP 11	2.76				

SUFFOLK COUNTY--Continued

404813073084102. Local number, S 65601.1
LOCATION.--Lat 40°48'13", long 73°08'41", Hydrologic Unit 02030202, at Johnson Avenue and Terry Road, Ronkonkoma. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 41 ft, screened 38 to 41 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 62.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.20 ft below land-surface datum.
REMARKS.--Replaced well S 1813.2 in September 1978. Record from November 1939 to September 1978 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--September 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.39 ft NGVD, July 23, 1984; lowest measured, 37.18 ft NGVD, Nov. 20, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

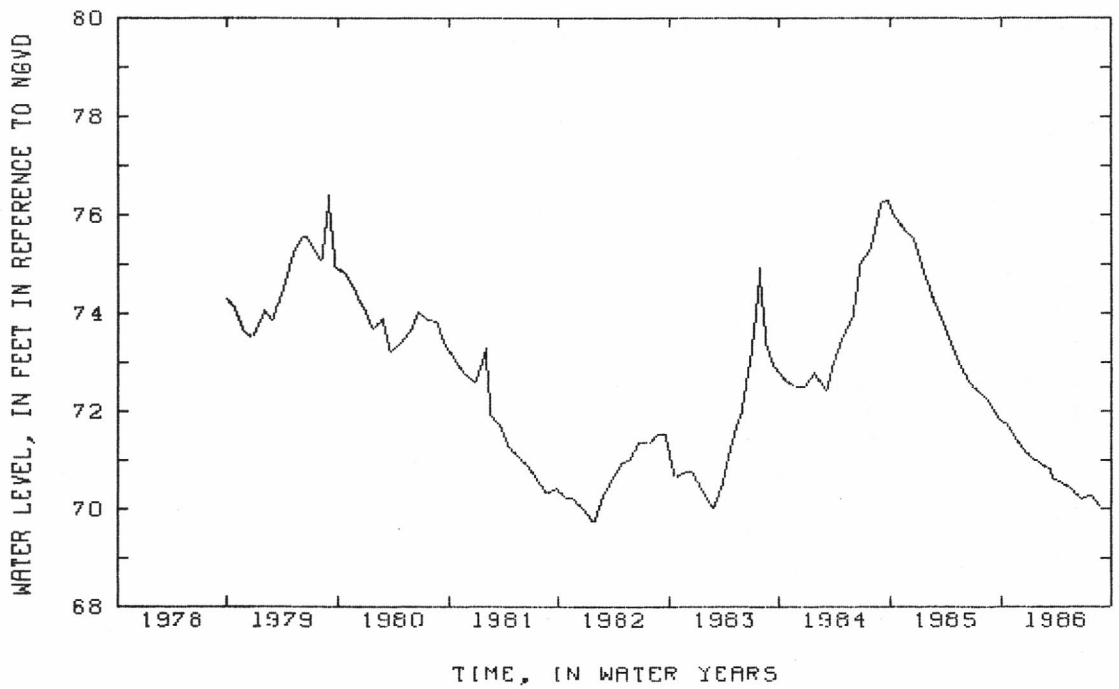
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	38.53	DEC 17	38.57	MAR 6	38.43	APR 22	38.53	JUN 25	37.81	AUG 21	37.52
NOV 18	38.58	JAN 16	38.59	26	38.63	MAY 20	39.22	JUL 24	37.45		



405030073180601. Local number, S 65602.1
LOCATION.--Lat 40°50'30", long 73°18'06", Hydrologic Unit 02030202, at Wiltshire Drive and Renee Place, Commack. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 96 ft, screened 91 to 96 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 146 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.19 ft below land-surface datum.
REMARKS.--Replaces well S 3514, September 1978, which has a period of record from May 1942 to September 1978.
PERIOD OF RECORD.--October 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.41 ft NGVD, Aug. 28, 1979, lowest measured, 69.74 ft NGVD, Jan. 25, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	71.73	DEC 17	71.23	MAR 12	70.79	APR 22	70.52	JUN 25	70.21	AUG 21	70.08
NOV 18	71.47	JAN 16	71.05	25	70.61	MAY 21	70.39	JUL 24	70.27		



404713072575701. Local number, S 65603.1
LOCATION.--Lat 40°47'18", long 72°57'52", Hydrologic Unit 02030202, at Patchogue-Yaphank Road and service road for Sunrise Highway, North Bellport. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 70 ft, screened 65 to 70 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 54 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.31 ft below land-surface datum.
PERIOD OF RECORD.--October 1978 to current year. Unpublished records from October 1978 to September 1982 are available in files of Long Island Sub-district office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.63 ft NGVD, Apr. 2, 1979; lowest measured, 23.00 ft NGVD, Nov. 10, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

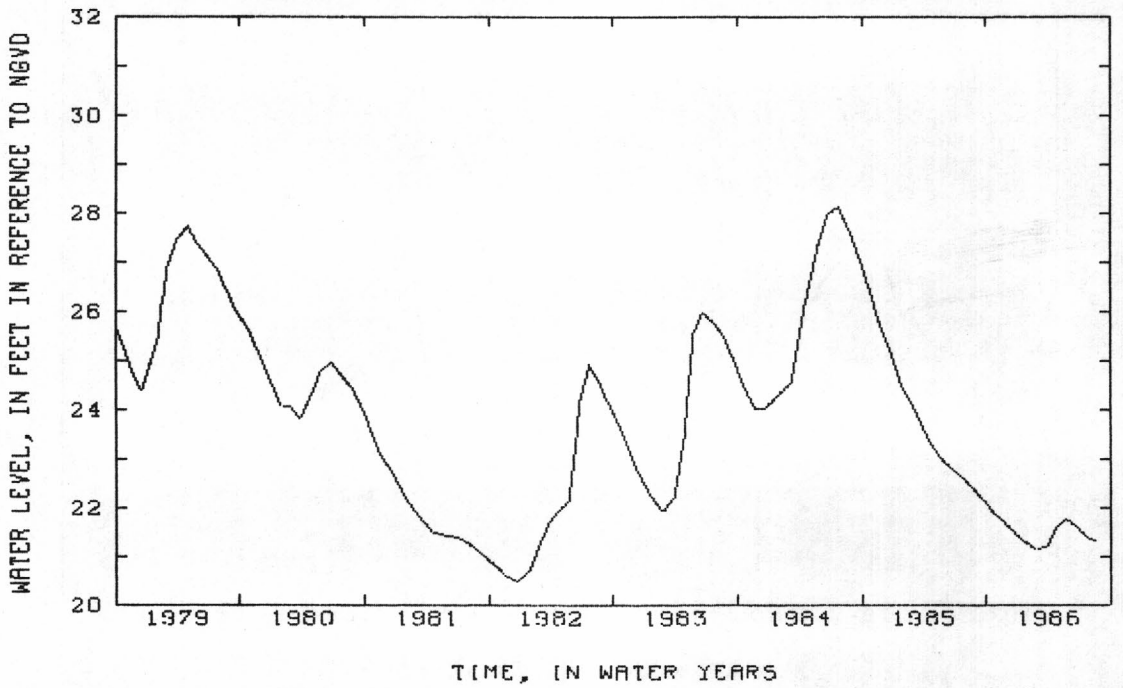
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	24.71										

SUFFOLK COUNTY--Continued

404936072483501. Local number, S 65604.1
LOCATION.--Lat 40°49'36", long 72°48'35", Hydrologic Unit 02030202, at Chichester Avenue near Sunrise Highway, Manorville. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 56 ft, screened 51 to 56 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 64.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.32 ft below land-surface datum.
REMARKS.--Replaces well S 6439 in October 1978, which has a period of record from January 1949 to October 1978.
PERIOD OF RECORD.--October 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.14 ft NGVD, July 23, 1984, lowest measured, 20.48 ft NGVD, Dec. 21, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 22	21.91	DEC 17	21.53	FEB 25	21.13	APR 22	21.60	JUN 25	21.59	AUG 20	21.31
NOV 18	21.72	JAN 16	21.33	MAR 25	21.19	MAY 20	21.76	JUL 24	21.41		



410226072283801. Local number, S 65606.1
LOCATION.--Lat 41°02'26", long 72°28'38", Hydrologic Unit 02030201, at Sound Avenue, near Peconic. Owner: U.S. Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 51 ft, screened 46 to 51 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS and County personnel.
DATUM.--Land-surface datum is 37.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.29 ft below land-surface datum.
REMARKS.--Replaced well S 16777.2 in August 1978, record from September 1958 to August 1978 are available in files of Long Island Sub-district office.
PERIOD OF RECORD.--August 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.89 ft NGVD, Mar. 6, 1979; lowest measured, 2.51 ft NGVD, Sept. 28, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	3.20	DEC 5	3.33	DEC 10	3.31 G	MAR 18	4.02	JUN 3	4.21	SEP 4	3.98
8	3.44										

G MEASUREMENT BY ANOTHER AGENCY

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
404048073412602	N 9	211MGTY	06-10-86	138	155	6.03
405231073323102	N 202	211LLYD	06-18-86	420	105	6.37
403818073421502	N 1114	112GLCLU	11-29-85	29	682	6.90
		112GLCLU	03-18-86	29	635	7.06
		112GLCLU	06-02-86	29	577	7.41
		112GLCLU	08-22-86	29	561	6.56
404125073394802	N 1129	112GLCLU	11-29-85	44	174	6.20
		112GLCLU	03-18-86	44	159	6.23
404736073353101	N 1176	211MGTY	03-17-86	198	38	6.04
405132073340701	N 1190	112GLCLU	08-07-86	99	106	5.94
404310073260102	N 1250	112GLCLU	12-05-85	34	335	--
		112GLCLU	03-18-86	34	272	6.48
		112GLCLU	05-29-86	34	266	6.55
		112GLCLU	08-29-86	34	307	6.24

DATE	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
06-10-86	13.5	4.7	1.9	21	1.2	23	17	15	14
06-18-86	--	5.9	2.6	6.6	1.6	43	22	6.3	4.7
11-29-85	18.5	40	5.5	63	3.5	--	101	14	120
03-18-86	18.0	35	5.7	59	3.4	--	120	8.5	88
06-02-86	16.5	41	6.5	36	4.4	--	138	10.5	50
08-22-86	18.5	45	6.4	46	5.6	--	143	2.2	85
11-29-85	17.5	22	3.4	11	3.0	--	11	40	30
03-18-86	17.5	15	2.5	7.0	2.1	--	11	19	15
03-17-86	11.0	1.6	0.61	3.3	0.60	--	5.0	2.5	4.1
08-07-86	11.0	8.5	3.9	4.4	1.0	13	13	23	6.6
12-05-85	16.0	23	7.4	30	5.2	--	48	35	54
03-18-86	18.0	15	4.9	20	5.4	--	35	21	24
05-29-86	17.5	15	4.7	17	5.2	--	31	27	21
08-29-86	19.0	24	6.1	17	5.6	--	26	59	21

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
06-10-86	<0.10	7.1	0.030	0.030	0.034	0.010	6700	100
06-18-86	0.20	19	<0.010	0.030	0.032	0.020	15000	330
11-29-85	<0.10	8.0	<0.010	1.40	1.30	0.030	4100	330
03-18-86	<0.10	7.4	<0.010	1.30	<1.30	0.040	3400	310
06-02-86	0.10	7.3	<0.010	2.30	2.30	0.010	3500	270
08-22-86	<0.10	7.8	0.050	3.90	4.00	<0.010	4500	320
11-29-85	<0.10	6.9	<0.010	0.010	0.010	0.010	840	20
03-18-86	<0.10	6.6	<0.010	<0.010	<0.010	0.020	480	30
03-17-86	<0.10	8.1	<0.010	<0.010	<0.010	0.010	1800	20
08-07-86	<0.10	13	0.002	0.010	0.008	0.020	350	<10
12-05-85	<0.10	6.8	<0.010	2.80	2.70	<0.010	3700	890
03-18-86	<0.10	7.1	<0.010	3.10	<3.40	0.020	8600	700
05-29-86	<0.10	8.7	<0.010	3.50	3.30	0.020	930	760
08-29-86	<0.10	10	0.020	1.70	2.70	<0.010	1400	1600

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
404231073255302	N 1251	112GLCLU	12-05-85	19	249	--
		112GLCLU	03-18-86	19	202	6.76
		112GLCLU	05-29-86	19	216	6.49
		112GLCLU	08-29-86	19	210	6.06
404059073254002	N 1253	112GLCLU	12-05-85	29	485	--
		112GLCLU	03-11-86	29	572	5.74
		112GLCLU	05-29-86	29	684	6.16
		112GLCLU	09-04-86	29	631	5.93
404015073252701	N 1254	112GLCLU	12-05-85	29	315	--
		112GLCLU	03-11-86	29	354	6.30
		112GLCLU	05-29-86	29	498	6.74
403920073410701	N 1429	112GLCLU	11-29-85	24	301	6.20
		112GLCLU	03-18-86	24	328	5.88
		112GLCLU	06-02-86	24	995	6.60
		112GLCLU	08-22-86	24	122	6.26
405325073293302	N 1486	211LLYD	06-20-86	44	66	6.39

DATE	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
12-05-85	20.5	13	1.9	26	3.6	--	15	26	17
03-18-86	19.5	11	2.0	12	3.4	--	16	22	19
05-29-86	24.5	15	1.9	14	2.5	--	16	23	13
08-29-86	25.0	15	1.9	16	3.1	--	17	19	18
12-05-85	14.0	40	4.8	48	5.2	--	66	54	98
03-11-86	13.5	35	5.0	52	6.0	--	60	65	97
05-29-86	13.0	39	5.1	54	5.8	--	44	50	140
09-04-86	14.5	44	5.5	48	4.7	--	41	44	140
12-05-85	17.0	25	4.1	28	4.8	--	64	34	51
03-11-86	17.0	23	4.0	26	6.3	--	70	26	45
05-29-86	20.5	25	3.8	34	8.1	--	70	31	74
11-29-85	20.0	35	4.4	14	4.6	--	73	36	26
03-18-86	17.0	50	7.0	650	20	--	20	43	1100
06-02-86	17.5	10	1.9	160	3.6	--	26	17	270
08-22-86	19.0	12	1.7	9.2	1.3	--	29	17	6.0
06-20-86	12.0	4.7	2.4	4.6	1.0	23	22	2.9	3.8

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
12-05-85	<0.10	8.3	<0.010	3.50	3.60	0.010	4700	1400
03-18-86	<0.10	6.4	<0.010	3.30	3.40	<0.020	2000	970
05-29-86	<0.10	7.4	<0.010	2.20	2.20	<0.010	80	340
08-29-86	<0.10	6.7	<0.010	2.50	2.30	<0.010	2500	790
12-05-85	<0.10	15	<0.010	4.50	4.60	<0.010	400	5500
03-11-86	<0.10	14	<0.010	6.00	6.00	<0.010	200	7600
05-29-86	<0.10	14	<0.010	4.80	4.90	<0.010	80	7300
09-04-86	<0.10	14	<0.010	3.10	3.30	0.020	250	6200
12-05-85	<0.10	7.8	<0.010	4.50	4.60	<0.010	1600	6900
03-11-86	<0.10	7.0	<0.010	6.30	6.30	<0.010	900	7100
05-29-86	<0.10	6.7	<0.010	8.00	8.20	0.020	7600	6200
11-29-85	<0.10	7.4	<0.010	0.580	0.570	0.030	4500	2500
03-18-86	<0.10	6.8	<0.020	0.110	0.120	<0.020	3700	880
06-02-86	<0.10	5.9	<0.010	<0.010	<0.010	0.010	880	30
08-22-86	<0.10	5.2	<0.010	0.020	0.050	<0.010	490	120
06-20-86	0.20	2.1	<0.010	0.020	0.009	0.010	10	<10

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
404029073393703	N 1602	211MGTY	08-22-86	488	48	5.31
404425073424801	N 1958	211LLYD	08-19-86	737	38	5.50
404516073343401	N 2602	211LLYD	08-29-86	805	28	5.64
404943073415201	N 2635	112GRDR	06-04-86	165	230	6.68
403805073395301	N 2790	211MGTY	07-07-86	571	32	4.79
404132073383302	N 3704	112GLCLU	08-20-86	159	199	5.17
403827073494202	N 3864	211MGTY	06-05-86	470	161	5.78
403734073374801	N 3865	211MGTY	06-13-86	565	35	5.22
403751073440202	N 3932	112JMCO	06-02-86	178	45	5.91
403713073415901	N 4026	112JMCO	06-09-86	197	50	6.25

DATE	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
08-22-86	--	1.4	0.92	4.4	0.80	3	3.0	9.5	5.0
08-19-86	--	1.8	0.89	3.4	0.70	--	5.0	7.4	3.8
08-29-86	--	0.99	0.66	3.0	0.80	--	7.0	3.1	3.2
06-04-86	12.0	23	5.3	14	1.3	117	107	5.1	3.9
07-07-86	15.0	0.30	0.19	3.7	0.70	6	4.0	4.3	3.4
08-20-86	13.5	14	3.5	12	2.6	7	4.0	38	21
06-05-86	--	3.1	4.2	16	2.1	11	5.0	3.3	39
06-13-86	--	0.20	0.13	3.7	0.48	8	5.0	2.9	4.1
06-02-86	13.5	0.88	5.5	4.3	1.1	14	8.0	3.4	2.9
06-09-86	13.0	1.8	1.3	4.6	1.0	21	14	4.2	3.7

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
08-22-86	<0.10	8.8	0.003	0.030	0.023	0.040	160	10
08-19-86	<0.10	7.9	0.005	0.020	0.008	0.020	340	10
08-29-86	<0.10	7.4	<0.002	<0.010	0.022	<0.010	20	<10
06-04-86	0.20	29	<0.010	0.820	0.810	0.620	3600	180
07-07-86	<0.10	0.2	<0.010	<0.010	0.008	<0.010	1100	10
08-20-86	<0.10	10	0.003	0.050	0.027	0.530	1100	80
06-05-86	<0.10	7.9	<0.010	0.040	0.036	0.020	3200	30
06-13-86	<0.10	8.0	<0.010	<0.010	0.010	0.020	2700	10
06-02-86	<0.10	13	0.010	0.040	0.029	0.030	2400	20
06-09-86	<0.10	12	<0.010	0.020	0.023	0.050	2700	30

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER		LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
405230073322601	N	4137	112PGQF	06-19-86	188	79	6.12
404041073343802	N	5187	211MGTY	08-22-86	501	25	4.98
404246073314301	N	5302	211MGTY	08-28-86	489	33	5.14
403517073430704	N	6704	211MGTY	06-05-86	294	69	5.83
403713073415904	N	6792	112GLCLU	06-09-86	50	188	7.29
403805073395302	N	6928	211MGTY	08-11-86	729	168	6.77
404544073265502	N	7397	112GLCLU	01-17-86	101	3180	5.22
			112GLCLU	03-31-86	101	2500	5.22
403805073395305	N	7677	112GLCLU	06-10-86	89	312	5.01
404947073450301	N	8046	112PGQF	05-28-86	189	253	6.40
404233073410606	N	8195	211MGTY	08-22-86	512	54	5.33

DATE	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
06-19-86	11.0	5.9	3.0	5.3	0.80	22	22	4.7	5.1
08-22-86	--	0.50	0.23	2.6	0.40	3	2.0	3.6	3.0
08-28-86	--	1.1	0.32	3.6	0.50	--	3.0	3.1	4.6
06-05-86	14.0	1.3	0.98	6.2	2.5	14	9.0	8.0	8.4
06-09-86	13.5	27	3.3	7.5	1.7	85	85	2.1	8.7
08-11-86	15.0	8.4	0.59	23	2.2	--	48	15	11
01-17-86	11.5	28	24	620	3.0	--	3.0	16	1000
03-31-86	12.5	22	17	430	2.7	--	8.0	8.7	740
06-10-86	14.0	14	5.2	26	5.4	7	5.0	55	34
05-28-86	12.0	17	13	8.7	2.7	46	45	45	15
08-22-86	--	1.8	1.3	4.6	0.80	11	4.0	10	5.1

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
06-19-86	0.10	18	<0.010	0.010	0.008	0.020	<10	<10
08-22-86	<0.10	6.4	0.003	0.020	0.016	<0.010	340	<10
08-28-86	<0.10	6.4	0.003	0.020	0.008	0.040	60	<10
06-05-86	<0.10	8.3	<0.010	0.020	0.033	0.130	2300	40
06-09-86	<0.10	46	<0.010	0.440	0.420	0.210	660	60
08-11-86	<0.10	9.1	0.001	0.030	0.021	0.460	180	10
01-17-86	<0.10	7.8	0.010	0.030	0.030	0.030	4500	500
03-31-86	<0.10	8.0	<0.010	0.050	0.030	0.060	13000	440
06-10-86	<0.10	10	<0.010	1.90	2.00	<0.010	3100	270
05-28-86	<0.10	22	<0.010	0.010	0.020	0.010	1000	30
08-22-86	<0.10	1.2	0.003	0.030	0.017	<0.010	210	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
404401073315103	N 8321	211MGTY	08-28-86	674	48	5.51
405011073394801	N 8624	211LLYD	07-07-86	377	71	6.37
404819073343303	N 8658	211MGTY	08-25-86	615	25	5.55
403802073371902	N 8752	112JMCO	06-16-86	117	51	5.72
403925073261101	N 8876	112GLCLU	06-16-86	35	3290	5.45
404730073423101	N 8877	112GLCLU	11-26-85	76	151	7.00
		112GLCLU	03-14-86	76	246	6.79
		112GLCLU	05-30-86	76	162	6.18
		112GLCLU	06-04-86	76	163	6.41
		112GLCLU	09-05-86	76	96	6.71
404723073443501	N 8933	112PGQF	06-02-86	148	191	6.84
404353073291005	N 8941	211MGTY	08-25-86	775	30	5.30
405158073300101	N 9154	112PGFG	06-17-86	66	85	6.04

DATE	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
08-28-86	--	2.1	0.84	4.7	0.60	6	7.0	1.2	6.1
07-07-86	13.5	5.0	2.7	4.2	0.90	28	26	3.2	1.8
08-25-86	--	0.90	0.31	3.2	0.50	7	5.0	0.6	4.2
06-16-86	14.0	2.8	0.30	3.1	0.51	11	5.0	6.9	3.3
06-16-86	12.5	120	52	520	13	22	21	150	1000
11-26-85	14.0	11	6.9	6.3	2.1	--	41	27	7.2
03-14-86	13.5	10	6.5	6.1	1.7	--	34	22	8.0
05-30-86	13.5	10	6.4	6.1	1.8	--	34	24	4.9
06-04-86	12.0	10	6.7	6.5	1.7	45	33	23	8.2
09-05-86	15.5	11	6.9	6.6	1.9	--	46	20	15
06-02-86	12.0	13	7.4	7.2	3.1	--	53	23	7.3
08-25-86	--	0.80	0.36	3.4	0.30	4	3.0	1.5	3.6
06-17-86	11.0	5.9	2.5	5.7	1.2	17	16	12	4.6

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
08-28-86	<0.10	6.5	0.002	0.020	0.007	<0.010	40	<10
07-07-86	<0.10	14	<0.010	0.010	0.011	0.010	2900	50
08-25-86	<0.10	6.5	0.003	0.020	0.021	<0.010	10	<10
06-16-86	<0.10	9.1	<0.010	0.020	0.026	0.030	4000	40
06-16-86	<0.10	14	<0.010	2.60	2.60	<0.010	560	3900
11-26-85	<0.10	20	<0.010	0.060	0.010	0.020	5100	140
03-14-86	0.20	19	<0.010	<0.010	<0.010	0.010	6600	150
05-30-86	<0.10	20	<0.010	<0.010	<0.010	<0.010	6300	140
06-04-86	0.10	21	<0.010	<0.010	0.026	0.020	6500	130
09-05-86	<0.10	16	<0.010	<0.010	0.040	<0.010	6300	150
06-02-86	0.10	22	<0.010	0.050	0.054	<0.080	12000	370
08-25-86	<0.10	6.5	0.003	0.020	0.007	0.010	10	<10
06-17-86	<0.10	15	<0.010	<0.010	<0.002	0.020	250	30

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY--Continued

All samples were collected and analyzed by U S. Geological Survey.

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
404901073443004	N 9208	112PGQF	05-30-86	96	241	7.46
405350073345401	N 9314	112PGFQ	06-17-86	54	73	7.12
404137073383402	N 9452	211MGTY	08-20-86	601	34	5.08
405144073313501	N 9520	112PGQF	08-29-86	556	72	6.65
404815073294602	N 9695	112GLCLU	07-28-86	88	119	5.69
404902073443001	N 9908	112GLCLU	05-30-86	203	7310	6.01
404524073325101	N 9917	112GLCLU	07-21-86	76	414	6.23
404348073260801	N 9923	112GLCLU	05-20-86	43	196	5.56
404325073322001	N 9925	112GLCLU	07-28-86	51	340	5.14
404624073321501	N 9928	112GLCLU	07-21-86	86	237	4.71

DATE	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
05-30-86	12.0	28	8.2	6.5	2.2	94	90	18	6.3
06-17-86	11.5	14	5.1	7.8	1.9	62	60	7.5	6.1
08-20-86	13.0	0.54	0.31	3.9	0.60	4	2.0	4.9	4.2
08-29-86	--	5.3	2.6	5.6	0.90	--	22	6.3	7.9
07-28-86	14.0	8.1	2.8	9.2	1.3	11	11	9.8	12
05-30-86	12.0	270	200	1100	9.7	43	43	320	2700
07-21-86	15.0	26	2.9	33	2.4	53	35	23	81
05-20-86	15.0	14	2.2	15	3.0	23	22	28	17
07-28-86	14.0	17	2.8	33	5.3	6	5.0	36	47
07-21-86	15.0	12	2.2	19	5.2	3	3.0	39	16

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
05-30-86	0.20	19	<0.010	0.320	0.046	0.360	1500	370
06-17-86	0.10	23	<0.010	0.050	0.051	0.340	1600	290
08-20-86	<0.10	6.9	<0.001	0.020	0.012	0.010	220	<10
08-29-86	<0.10	19	0.002	<0.010	0.009	0.070	20	<10
07-28-86	<0.10	4.8	0.001	0.010	0.009	<0.010	220	<10
05-30-86	<0.10	20	<0.010	0.140	0.294	0.010	500	3700
07-21-86	<0.10	6.4	<0.010	0.080	0.089	0.030	9300	4000
05-20-86	<0.10	10	0.020	0.850	0.810	0.010	90	810
07-28-86	<0.10	12	<0.001	0.010	0.018	<0.010	<10	340
07-21-86	0.40	13	<0.010	0.020	0.020	<0.010	10	930

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
404622073273201	N 9935	211MGTY	07-17-86	135	179	5.80
404411073400501	N 9944	112GLCLU	07-22-86	80	309	5.49
404253073395601	N 9945	112GLCLU	07-24-86	67	230	5.76
404531073393501	N 9946	112GLCLU	07-25-86	60	196	5.23
404508073405601	N 9948	211MGTY	07-24-86	114	800	6.57
404421073262301	N 9980	112GLCLU	05-19-86	58	72	5.09
404845073440901	N 10100	211LLYD	05-29-86	310	245	7.47

DATE	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
07-17-86	12.5	18	3.6	5.2	2.0	11	9.0	33	10
07-22-86	--	24	4.4	22	5.1	12	11	50	39
07-24-86	13.5	18	3.9	17	1.9	19	17	38	20
07-25-86	14.0	14	4.1	13	3.4	17	17	26	19
07-24-86	--	51	7.4	41	25	340	327	6.8	42
05-19-86	14.5	2.3	2.5	4.5	1.6	5	3.0	5.2	7.9
05-29-86	--	24	9.9	7.9	2.2	85	83	18	11

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
07-17-86	<0.10	6.9	<0.010	0.040	0.037	<0.010	450	20
07-22-86	<0.10	13	<0.010	<0.010	0.009	<0.070	40	<10
07-24-86	<0.10	8.7	<0.010	0.030	0.018	<0.010	<10	<10
07-25-86	<0.10	17	<0.001	0.010	0.006	0.020	30	<10
07-24-86	0.20	15	0.003	23.0	23.0	0.010	4500	5900
05-19-86	<0.10	9.7	<0.010	<0.010	0.002	<0.010	180	<10
05-29-86	0.20	18	<0.010	0.060	0.063	0.160	460	210

Geological unit (aquifer):
- 112GLCLU - Upper Glacial Aquifer, Pleistocene age.
- 112GRDR - Gardiners Clay, Pleistocene age
- 112JMCO - Jameco Gravel, Pleistocene age
- 112PGFG - Port Washington Confining Unit, Pleistocene age.
- 112PGQF - Port Washington Aquifer, Pleistocene age.
- 211LLYD - Lloyd Aquifer, Cretaceous age.
- 211MGTY - Magothy Aquifer, Cretaceous age.
- 211RNCF - Raritan Confining Unit, Cretaceous age.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

NASSAU COUNTY (Continued)

The following wells were sampled for water quality during the 1986 water year by the agency listed below. For further information, contact:

Nassau County Department of Health
New Office Building
240 Old Country Road
Mineola, NY 11501

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
N 13	N 2052	N 4329	N 6076	N 7561	N 8482	N 9488
N 14	N 2115	N 4388	N 6077	N 7562	N 8487	N 9514
N 17	N 2214	N 4389	N 6078	N 7614	N 8497	N 9520
N 22	N 2239	N 4390	N 6087	N 7620	N 8525	N 9521
N 28	N 2400	N 4393	N 6092	N 7632	N 8526	N 9590
N 29	N 2413	N 4400	N 6093	N 7649	N 8530	N 9591
N 31	N 2414	N 4405	N 6146	N 7650	N 8531	N 9657
N 36	N 2487	N 4411	N 6149	N 7651	N 8557	N 9658
N 37	N 2565	N 4425	N 6150	N 7665	N 8558	N 9712
N 46	N 2578	N 4447	N 6190	N 7747	N 8576	N 9768
N 68	N 2580	N 4448	N 6192	N 7772	N 8585	N 9792
N 69	N 2597	N 4450	N 6193	N 7773	N 8595	N 9809
N 72	N 2602	N 4451	N 6315	N 7776	N 8603	N 9846
N 75	N 2613	N 4512	N 6320	N 7781	N 8627	N 9878
N 79	N 2616	N 4602	N 6413	N 7785	N 8641	N 9892
N 80	N 2748	N 4623	N 6417	N 7796	N 8645	N 9893
N 81	N 3185	N 4756	N 6439	N 7797	N 8657	N 9895
N 82	N 3243	N 4757	N 6442	N 7799	N 8665	N 9896
N 83	N 3443	N 4758	N 6443	N 7831	N 8713	N 9897
N 95	N 3456	N 4759	N 6450	N 7834	N 8761	N 9898
N 101	N 3457	N 4760	N 6502	N 7855	N 8767	N 9899
N 103	N 3465	N 4772	N 6580	N 7857	N 8768	N 9900
N 104	N 3474	N 4859	N 6657	N 7873	N 8774	N 9902
N 118	N 3475	N 4860	N 6741	N 7892	N 8775	N 9903
N 119	N 3486	N 5007	N 6744	N 7957	N 8776	N 9904
N 131	N 3520	N 5121	N 6745	N 8004	N 8778	N 9905
N 133	N 3523	N 5129	N 6780	N 8007	N 8818	N 9906
N 134	N 3540	N 5147	N 6817	N 8008	N 8837	N 9907
N 189	N 3561	N 5148	N 6819	N 8010	N 8891	N 9910
N 198	N 3569	N 5152	N 6848	N 8011	N 8941	N 9918
N 199	N 3603	N 5153	N 6866	N 8031	N 8956	N 9919
N 570	N 3604	N 5155	N 6867	N 8054	N 8957	N 9922
N 585	N 3605	N 5156	N 6893	N 8136	N 8976	N 9923
N 590	N 3618	N 5163	N 6905	N 8153	N 8979	N 9924
N 617	N 3668	N 5187	N 6915	N 8162	N 8984	N 9930
N 650	N 3672	N 5193	N 6916	N 8171	N 9029	N 9931
N 651	N 3673	N 5195	N 6945	N 8183	N 9054	N 9940
N 693	N 3687	N 5201	N 6956	N 8195	N 9057	N 9941
N 700	N 3699	N 5209	N 6985	N 8196	N 9068	N 9942
N 735	N 3720	N 5227	N 7000	N 8214	N 9072	N 9943
N 736	N 3722	N 5302	N 7030	N 8216	N 9076	N 9944
N 901	N 3732	N 5318	N 7058	N 8217	N 9077	N 9945
N 1102	N 3733	N 5320	N 7076	N 8218	N 9079	N 9949
N 1147	N 3832	N 5321	N 7101	N 8249	N 9088	N 9976
N 1176	N 3878	N 5322	N 7104	N 8250	N 9115	N 9980
N 1195	N 3881	N 5484	N 7117	N 8251	N 9151	N 9984
N 1197	N 3895	N 5485	N 7126	N 8253	N 9173	N 10011
N 1204	N 3905	N 5528	N 7157	N 8264	N 9180	N 10033
N 1205	N 3934	N 5596	N 7298	N 8265	N 9190	N 10034
N 1236	N 3937	N 5603	N 7353	N 8279	N 9210	N 10045
N 1298	N 3953	N 5653	N 7377	N 8313	N 9211	N 10047
N 1328	N 4043	N 5655	N 7407	N 8321	N 9212	N 10048
N 1346	N 4077	N 5656	N 7414	N 8339	N 9308	N 10049
N 1601	N 4082	N 5695	N 7421	N 8342	N 9313	N 10050
N 1602	N 4095	N 5696	N 7445	N 8354	N 9334	N 10051
N 1603	N 4096	N 5703	N 7464	N 8355	N 9338	N 10084
N 1618	N 4097	N 5710	N 7465	N 8383	N 9358	N 10144
N 1651	N 4118	N 5762	N 7482	N 8409	N 9359	N 10149
N 1697	N 4132	N 5767	N 7512	N 8413	N 9446	N 10195
N 1715	N 4206	N 5792	N 7521	N 8414	N 9463	N 10207
N 1716	N 4223	N 5852	N 7522	N 8420	N 9468	N 10208
N 1802	N 4243	N 5876	N 7523	N 8426	N 9469	N 10211
N 1870	N 4245	N 5884	N 7526	N 8457	N 9470	
N 1958	N 4265	N 5947	N 7548	N 8474	N 9472	
N 2028	N 4298	N 5994	N 7551	N 8475	N 9473	
N 2030	N 4327	N 6042	N 7552	N 8480	N 9475	

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
405222072523301	S 6431	112GLCLU	08-12-86	125	130	6.28
405223072523401	S 6434	211LLYD	09-18-86	1395	88	6.52
405223072523402	S 6455	211MGTY	08-13-86	962	65	6.49
403727073154601	S 21091	211LLYD	07-18-86	1921	136	7.00
404902073094002	S 22578	211MGTY	06-24-86	402	71	6.37
404820073160303	S 24771	112GLCLU	08-14-86	127	--	5.88
404703073264202	S 29777	211MGTY	09-30-86	397	50	5.95
404703073264205	S 29778	211MGTY	09-30-86	168	133	5.74
404935073055901	S 33379	211LLYD	09-26-86	1305	53	6.26
404932073055902	S 33380	211MGTY	09-24-86	855	47	6.03

DATE	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
08-12-86	--	1.9	3.6	3.4	0.70	16	--	12	14
09-18-86	16.0	3.5	3.6	6.4	2.1	--	29	4.9	5.9
08-13-86	13.0	1.9	3.2	3.5	2.2	23	17	6.6	4.3
07-18-86	13.5	7.2	0.96	9.6	1.3	--	15	14	11
06-24-86	10.5	5.4	2.5	4.1	0.60	30	31	1.8	4.6
08-14-86	14.0	7.1	4.4	29	2.3	40	40	16	20
09-30-86	11.0	0.90	0.23	3.7	0.70	14	15	1.1	3.9
09-30-86	11.0	6.1	4.6	7.5	1.9	13	--	12	15
09-26-86	12.5	0.70	1.6	3.4	2.3	16	14	5.2	3.2
09-24-86	--	1.8	1.0	3.6	0.60	16	16	2.7	3.8

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
08-12-86	<0.10	7.4	0.002	0.110	0.113	0.020	4800	20
09-18-86	<0.10	7.7	0.001	0.010	0.008	0.070	4300	10
08-13-86	<0.10	7.4	0.003	0.040	0.046	0.020	4800	50
07-18-86	<0.10	8.7	<0.010	0.030	0.041	<0.010	11000	230
06-24-86	<0.10	12	<0.010	<0.010	<0.002	<0.010	140	<10
08-14-86	<0.10	8.3	0.011	0.110	1.60	<0.010	110	10
09-30-86	<0.10	6.2	0.006	0.040	0.008	0.010	420	<10
09-30-86	<0.10	7.4	0.002	0.100	0.062	0.010	1200	30
09-26-86	<0.10	1.5	0.003	0.040	0.014	0.010	1600	50
09-24-86	<0.10	12	0.001	0.040	0.010	0.020	220	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
404618073164501	S 45717	112GLCLU	08-14-86	75	43	5.68
405418072233800	S 46530	112GLCLU	08-06-86	42	231	5.61
404952073470501	S 46966	112GLCLU	08-05-86	86	--	5.83
404200073163601	S 47222	112GLCLU	06-24-86	28	284	5.27
404817072532500	S 47224	112GLCLU	06-25-86	33	58	5.43
405240072491402	S 47226	112GLCLU	06-30-86	30	70	6.53
405240072491401	S 47227	112GLCLU	06-27-86	100	106	7.46
404642073005801	S 47743	112GLCLU	06-26-86	100	77	6.69
405638072514700	S 47748	112GLCLU	09-15-86	115	43	5.64
405412072441401	S 47753	112GLCLU	06-30-86	102	63	5.81

DATE	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
08-14-86	11.0	1.4	1.7	3.1	0.50	4	3.0	11	4.2
08-06-86	11.5	9.9	8.2	16	1.2	9	9.0	19	19
08-05-86	12.0	1.3	1.4	4.1	0.50	4	5.0	3.7	6.6
06-24-86	14.5	14	3.2	22	4.2	32	30	39	28
06-25-86	10.0	2.5	1.2	4.8	1.4	6	4.0	8.8	8.1
06-30-86	10.0	4.4	0.75	3.8	0.47	25	16	10	5.6
06-27-86	10.5	12	2.6	4.1	0.39	46	43	4.6	5.4
06-26-86	11.5	6.0	2.2	5.0	0.70	29	26	4.2	7.2
09-15-86	10.5	1.3	1.3	3.9	0.60	6	5.0	6.7	5.3
06-30-86	10.0	3.2	1.6	5.3	0.70	10	9.0	11	6.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
08-14-86	<0.10	7.4	0.002	0.020	0.011	0.020	180	10
08-06-86	<0.10	12	<0.001	0.020	0.013	0.030	50	<10
08-05-86	<0.10	7.0	<0.001	0.020	0.003	<0.010	230	<10
06-24-86	<0.10	8.9	<0.010	3.60	3.50	0.840	2300	1900
06-25-86	<0.10	6.3	<0.010	<0.010	<0.002	<0.010	200	70
06-30-86	<0.10	11	<0.010	0.190	0.187	0.150	7000	140
06-27-86	<0.10	14	<0.010	0.110	0.108	<0.220	720	250
06-26-86	0.10	18	<0.010	<0.010	<0.002	<0.010	740	140
09-15-86	<0.10	7.3	<0.001	0.020	0.015	<0.010	470	40
06-30-86	<0.10	8.8	<0.010	<0.010	<0.002	<0.010	1500	30

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
410334072172701	S 51183	112GLCLU	07-23-86	51	103	5.81
405500072495201	S 51583	112GLCLU	06-26-86	51	46	5.73
404357072515701	S 52162	211LLYD	07-03-86	1695	117	7.10
404357072515702	S 52163	211MGTY	07-03-86	1305	133	6.89
404357072515703	S 52164	211MGTY	07-03-86	735	88	6.63
410753072205501	S 53331	112GLCLU	07-29-86	70	141	6.23
405924072342301	S 53333	112GLCLU	07-29-86	74	431	5.70
405842072164901	S 58961	112GLCLU	09-17-86	132	57	6.01
404330073244101	S 66133	211MGTY	05-27-86	142	206	5.06
403935073235001	S 66136	211MGTY	07-16-86	144	33	5.60

DATE	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
07-23-86	10.0	6.1	3.0	7.7	0.90	22	21	13	9.6
06-26-86	10.5	1.4	1.0	4.4	1.2	6	4.0	8.0	5.7
07-03-86	15.0	<0.10	0.11	22	2.3	37	27	3.1	10
07-03-86	18.0	0.30	0.36	24	4.6	46	43	11	8.1
07-03-86	16.0	0.40	0.70	12	4.8	30	24	11	5.0
07-29-86	13.0	5.9	4.9	12	0.70	18	16	18	19
07-29-86	13.0	48	6.5	11	4.0	19	18	82	36
09-17-86	10.5	1.7	1.4	6.1	0.60	6	6.0	7.6	8.3
05-27-86	14.5	10	4.5	19	1.2	22	21	29	20
07-16-86	12.5	0.81	1.1	2.5	0.49	4	5.0	3.5	3.9

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
07-23-86	<0.10	11	<0.010	0.040	0.029	0.040	1200	20
06-26-86	<0.10	5.1	<0.010	0.010	0.002	<0.010	230	30
07-03-86	<0.10	8.9	<0.010	0.010	0.010	0.040	5600	60
07-03-86	<0.10	8.6	<0.010	0.030	0.026	0.080	1400	30
07-03-86	<0.10	8.5	<0.010	0.030	0.031	<0.030	3400	30
07-29-86	<0.10	13	0.001	0.030	0.004	<0.010	570	10
07-29-86	<0.10	11	0.005	0.030	0.034	<0.010	550	50
09-17-86	<0.10	11	0.001	0.010	0.010	<0.010	<10	<10
05-27-86	<0.10	14	<0.010	<0.030	<0.028	0.010	150	20
07-16-86	<0.10	8.1	<0.010	0.020	0.011	0.020	450	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)
405002073043501	S 66509	112GLCLU	08-04-86	123	244	5.38
405508073054201	S 66513	112GLCLU	08-01-86	123	293	5.46
403739073143202	S 67082A	112GLCLU	06-23-86	70	47300	7.63
403657073242103	S 67087A	112GLCLU	06-23-86	70	47800	7.33
403935073235002	S 67537	112GLCLU	07-16-86	61	143	8.53
405801072354401	S 71576	211MGTY	09-19-86	448	104	6.58
404750073225304	S 74286	211MGTY	08-04-86	115	51	5.46
404433073244903	S 74586	211MGTY	09-12-86	441	28	4.96
404433073244904	S 74587	211MGTY	09-11-86	196	244	5.50
404433073244902	S 75034	211MGTY	09-10-86	698	25	5.18

DATE	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
08-04-86	12.0	12	5.5	20	1.3	17	16	10	29
08-01-86	14.0	15	6.1	26	1.3	17	18	29	25
06-23-86	12.0	390	1200	9500	360	134	127	2600	18000
06-23-86	11.5	390	1100	9200	330	124	121	2600	17000
07-16-86	13.0	22	1.7	3.2	0.60	65	65	4.0	4.0
09-19-86	12.0	7.9	3.0	6.1	1.1	35	32	9.6	7.8
08-04-86	14.0	2.0	1.5	5.0	0.60	6	6.0	6.0	5.4
09-12-86	--	0.78	0.28	2.5	0.49	2	2.0	1.6	4.3
09-11-86	12.0	21	6.0	9.3	1.6	18	13	57	16
09-10-86	--	0.38	0.20	2.8	0.38	5	2.0	2.9	4.1

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
08-04-86	<0.10	14	<0.001	0.020	0.024	<0.010	30	<10
08-01-86	<0.10	16	0.001	0.030	0.005	0.010	60	<10
06-23-86	0.70	8.1	<0.010	0.690	0.490	0.330	1000	70
06-23-86	0.70	7.1	<0.010	0.540	0.360	0.610	320	70
07-16-86	<0.10	8.2	<0.010	0.020	0.014	0.120	260	230
09-19-86	<0.10	24	0.005	0.060	0.028	0.050	1700	40
08-04-86	<0.10	6.1	0.001	0.230	0.006	<0.010	20	20
09-12-86	<0.10	6.4	0.001	0.020	0.013	<0.010	<10	<10
09-11-86	<0.10	12	0.002	0.020	0.041	0.010	30	<10
09-10-86	<0.10	6.2	0.002	0.020	0.015	<0.010	2600	40

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY--Continued

All samples were collected and analyzed by U.S. Geological Survey.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
410333072185501	S 75440	112GLCLU	07-23-86	53	99	5.82
410323072182001	S 75441	112GLCLU	07-23-86	33	80	5.92
404942073175502	S 76673	211MGTY	09-05-86	630	37	5.79
404942073175503	S 76674	211MGTY	09-08-86	460	67	5.24
404942073175504	S 76675	211MGTY	09-08-86	250	137	5.01
405317072331903	S 77436	211MGTY	07-01-86	508	192	6.57
403935073235003	S 79407	211LLYD	07-16-86	1219	63	6.18
403935073235004	S 79408	211MGTY	07-16-86	680	32	5.59

DATE	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
07-23-86	11.0	4.3	2.6	8.2	0.90	10	9.0	14	13
07-23-86	10.0	2.8	1.8	7.7	1.4	10	9.0	12	9.2
09-05-86	11.0	1.7	0.52	4.3	0.60	7	6.0	0.5	5.5
09-08-86	11.0	2.3	1.3	7.4	1.0	5	5.0	0.3	15
09-08-86	11.0	2.7	3.6	16	1.7	4	5.0	<0.2	31
07-01-86	12.0	14	2.5	16	0.80	29	28	4.1	35
07-16-86	14.0	0.65	0.27	6.0	0.41	24	20	5.6	3.2
07-16-86	13.0	0.41	0.27	2.7	0.38	6	6.0	3.5	3.7

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
07-23-86	<0.10	11	<0.010	0.030	0.024	0.020	330	50
07-23-86	<0.10	11	<0.010	0.030	0.023	<0.010	240	50
09-05-86	<0.10	7.6	0.001	0.020	0.012	<0.010	20	<10
09-08-86	<0.10	7.3	0.001	0.020	0.024	<0.010	30	<10
09-08-86	<0.10	6.5	<0.001	0.020	0.009	0.010	30	<10
07-01-86	<0.10	10	<0.010	0.010	0.005	<0.010	570	90
07-16-86	<0.10	8.1	<0.010	0.020	0.013	<0.010	2300	70
07-16-86	<0.10	6.9	<0.010	0.010	0.011	<0.010	180	<10

Geological unit (aquifer):
- 112GLCLU - Upper Glacial Aquifer, Pleistocene age.
- 112GRDR - Gardiners Clay, Pleistocene age.
- 112JMCO - Jameco Gravel, Pleistocene age.
- 112PGFG - Port Washington Confining Unit, Pleistocene age.
- 112PGQF - Port Washington Aquifer, Pleistocene age.
- 211LLYD - Llyod Aquifer, Cretaceous age
- 211MGTY - Magothy Aquifer, Cretaceous age.
- 211RNCF - Raritan Confining Unit, Cretaceous age.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY (Continued)

The following wells were sampled for water quality during the 1986 water year by the agency listed below. For further information, contact:

Suffolk County Water Authority
Sunrise Highway
Oakdale, NY 11769

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
S 871	S 20460	S 27070	S 35446	S 42473	S 51673	S 64062
S 872	S 20479	S 27192	S 35494	S 42499	S 51953	S 64716
S 1331	S 20530	S 27259	S 35939	S 42504	S 52126	S 64847
S 1340	S 20566	S 27533	S 36166	S 42505	S 52451	S 65505
S 1341	S 20635	S 27784	S 36185	S 42760	S 52490	S 65766
S 2415	S 20688	S 28408	S 36459	S 42761	S 52943	S 65905
S 2978	S 20689	S 28503	S 36460	S 42762	S 52944	S 66183
S 3615	S 20838	S 28819	S 36711	S 42827	S 52945	S 66184
S 3815	S 20839	S 28928	S 36714	S 43001	S 53074	S 66366
S 4184	S 20955	S 29411	S 36748	S 43117	S 53291	S 66429
S 4372	S 21121	S 29491	S 36791	S 43641	S 53360	S 66496
S 7570	S 21244	S 29492	S 36869	S 44468	S 53361	S 66657
S 8439	S 21247	S 29732	S 36976	S 44640	S 53497	S 66733
S 9893	S 21366	S 30088	S 37140	S 44774	S 53498	S 66758
S 11105	S 21375	S 30117	S 37141	S 45610	S 53522	S 66825
S 12130	S 21487	S 30118	S 37174	S 45839	S 53593	S 66881
S 14326	S 21632	S 30207	S 37301	S 45840	S 53747	S 67074
S 14710	S 21945	S 30208	S 37351	S 46235	S 53850	S 67197
S 14792	S 22048	S 30227	S 37494	S 46400	S 54162	S 67656
S 14828	S 22171	S 30228	S 37681	S 46712	S 54305	S 67819
S 14921	S 22351	S 30234	S 37861	S 46713	S 54308	S 67925
S 15514	S 22362	S 30506	S 37963	S 46830	S 54568	S 68230
S 15515	S 22389	S 30762	S 38192	S 46928	S 54730	S 68552
S 15746	S 22471	S 31037	S 38194	S 47035	S 55028	S 68666
S 15776	S 22547	S 31038	S 38320	S 47219	S 55502	S 68690
S 15898	S 22548	S 31039	S 38321	S 47310	S 55733	S 69024
S 15923	S 22640	S 31104	S 38491	S 47435	S 56038	S 69364
S 15962	S 23046	S 31653	S 38701	S 47436	S 56039	S 69511
S 16129	S 23183	S 31913	S 38784	S 47437	S 56133	S 70008
S 16256	S 23184	S 32180	S 38785	S 47438	S 56674	S 70155
S 16309	S 23185	S 32287	S 38916	S 47453	S 57008	S 70459
S 16892	S 23186	S 32325	S 38917	S 47673	S 57354	S 70488
S 17474	S 23255	S 32326	S 39347	S 47886	S 57357	S 70767
S 17689	S 23371	S 32501	S 39531	S 47887	S 57979	S 71038
S 18003	S 23445	S 32551	S 39536	S 48014	S 57980	S 71083
S 18261	S 23524	S 32552	S 40161	S 48193	S 58708	S 71533
S 18621	S 23631	S 33005	S 40330	S 48719	S 58761	S 71785
S 18729	S 23715	S 33006	S 40331	S 49018	S 59347	S 71881
S 18762	S 23827	S 33500	S 40497	S 49422	S 59744	S 71882
S 19048	S 23828	S 33820	S 40498	S 49606	S 60127	S 71892
S 19399	S 23832	S 33826	S 40709	S 50546	S 60486	S 72245
S 19408	S 23848	S 33970	S 40710	S 50630	S 60812	S 72271
S 19465	S 24047	S 34007	S 40711	S 51214	S 61910	S 72300
S 19565	S 24323	S 34030	S 40837	S 51266	S 61937	S 72917
S 19884	S 24545	S 34031	S 40838	S 51274	S 62022	S 73144
S 19885	S 24663	S 34300	S 40980	S 51275	S 62240	S 73332
S 19893	S 25617	S 34301	S 40982	S 51298	S 62855	S 73492
S 20057	S 25674	S 34460	S 42226	S 51457	S 63205	S 73847
S 20300	S 25776	S 34595	S 42227	S 51519	S 63256	S 74505
S 20369	S 26535	S 35033	S 42270	S 51609	S 63618	S 74865
					S 64023	S 79293

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

SUFFOLK COUNTY (Continued)

The following wells were sampled for water quality during the 1986 water year by the agency listed below. For further information, contact:

Suffolk County Department of Health Services
225 Rabro Drive East
Hauppauge, New York

Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier	Local identifier
S 43808	S 45718	S 47234	S 48427	S 48651	S 51576	S 53329
S 43809	S 45719	S 47235	S 48428	S 48759	S 51577	S 53330
S 43810	S 45720	S 47236	S 48429	S 48946	S 51578	S 53331
S 43811	S 45721	S 47675	S 48430	S 48958	S 51579	S 53332
S 43812	S 45722	S 47698	S 48432	S 49898	S 51580	S 53333
S 43813	S 46281	S 47718	S 48433	S 51169	S 51581	S 53335
S 43814	S 46284	S 47743	S 48434	S 51170	S 51582	S 53336
S 43815	S 46286	S 47745	S 48435	S 51171	S 51583	S 53337
S 43816	S 46287	S 47746	S 48436	S 51172	S 51586	S 53338
S 43817	S 46502	S 47747	S 48437	S 51173	S 51587	S 53537
S 43818	S 46911	S 47748	S 48438	S 51174	S 51588	S 53539
S 43819	S 46912	S 47749	S 48439	S 51175	S 51589	S 58921
S 43820	S 46913	S 47750	S 48440	S 51176	S 51591	S 58922
S 43821	S 46914	S 47751	S 48441	S 51177	S 51592	S 58923
S 43822	S 46962	S 47752	S 48442	S 51178	S 52050	S 58924
S 44914	S 46963	S 47753	S 48517	S 51179	S 52084	S 58925
S 44918	S 46964	S 47754	S 48518	S 51180	S 52162	S 58956
S 45053	S 46966	S 47755	S 48519	S 51181	S 52163	S 64188
S 45207	S 47220	S 47756	S 48520	S 51182	S 52164	S 64554
S 45208	S 47222	S 47757	S 48521	S 51183	S 52383	S 64555
S 45210	S 47223	S 47758	S 48522	S 51184	S 52449	S 74484
S 45212	S 47224	S 47945	S 48577	S 51185	S 52886	S 74489
S 45402	S 47225	S 47973	S 48578	S 51186	S 53322	S 74490
S 45446	S 47226	S 47974	S 48579	S 51566	S 53323	S 74491
S 45447	S 47227	S 47975	S 48580	S 51567	S 53324	S 74492
S 45594	S 47228	S 47976	S 48581	S 51571	S 53325	S 74496
S 45636	S 47229	S 47977	S 48582	S 51572	S 53326	S 74497
S 45637	S 47231	S 48425	S 48583	S 51573	S 53327	
S 45717	S 47233	S 48426	S 48584	S 51575	S 53328	

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
5 Aerial Way
Syosset, NY 11791

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